

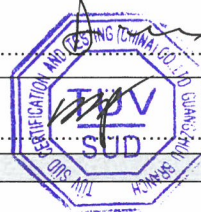


TEST REPORT IEC 60598-2-3 Luminaires Part 2: Particular requirements Section 3: Luminaires for road and street lighting	
Report Number.....:	64.142.18.50069.01
Date of issue	2019-08-02
Total number of pages	61 (not including attachments)
Name of Testing Laboratory preparing the Report.....:	TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
Applicant's name	Peony Lighting Technology Co., Ltd.
Address	5/F, Building B, Junxinglong Industrial Park, Zhoushi Road, Shiyan Town, Baoan District, 518108 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Test specification:	
Standard.....:	IEC 60598-2-3:2002, AMD1:2011 used in conjunction with IEC 60598-1:2014, AMD1:2017
Test procedure.....:	ENEC
Non-standard test method.....:	N/A
Test Report Form No.:	IEC60598_2_3L
Test Report Form(s) Originator:	Intertek Semko AB
Master TRF	Dated 2018-03-09
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Test item description..... :	LED Street Light
Trade Mark..... :	--
Manufacturer..... :	Same as applicant.
Model/Type reference..... :	PL-LD-057-50W; PL-LD-057-80W; PL-LD-057-100W; PL-LD-057-115W; PL-LD-057-120W; PL-LD-057-130W; PL-LD-057-150W; PL-LD-057-180W; PL-LD-057-200W; PL-LD-057-250W; PL-LD-057S-50W; PL-LD-057S-80W; PL-LD-057S-100W; PL-LD-057S-115W; PL-LD-057S-120W; PL-LD-057S-130W; PL-LD-057S-150W; PL-LD-057S-180W; PL-LD-057S-200W; PL-LD-057S-250W; PL-LD-058-80W; PL-LD-058-100W; PL-LD-058-115W; PL-LD-058-120W; PL-LD-058-130W; PL-LD-058-150W; PL-LD-058-180W; PL-LD-058-200W; PL-LD-058-250W; PL-LD-058S-80W; PL-LD-058S-100W; PL-LD-058S-115W; PL-LD-058S-120W; PL-LD-058S-130W; PL-LD-058S-150W; PL-LD-058S-180W; PL-LD-058S-200W; PL-LD-058S-250W; PL-LD-060-30W; PL-LD-060-40W; PL-LD-060-50W; PL-LD-060-60W; PL-LD-060-70W; PL-LD-060-80W; PL-LD-060-90W; PL-LD-060-100W; PL-LD-060-115W; PL-LD-060-120W; PL-LD-060-130W; PL-LD-060-150W; PL-LD-060-180W; PL-LD-060-200W; PL-LD-061-30W; PL-LD-061-40W; PL-LD-061-50W; PL-LD-061-60W; PL-LD-061-70W; PL-LD-061-80W; PL-LD-061-90W; PL-LD-061-100W; PL-LD-061-115W; PL-LD-061-120W; PL-LD-061-130W; PL-LD-061-150W; PL-LD-061-180W; PL-LD-061-200W; PL-LD-062-30W; PL-LD-062-40W; PL-LD-062-50W; PL-LD-062-60W; PL-LD-062-70W; PL-LD-062-80W; PL-LD-062-90W; PL-LD-062-100W; PL-LD-062-115W; PL-LD-062-120W; PL-LD-062-130W; PL-LD-062-150W; PL-LD-065-100W; PL-LD-065-115W; PL-LD-065-120W; PL-LD-065-130W; PL-LD-065-150W; PL-LD-065-180W; PL-LD-065-200W; PL-LD-066-50W; PL-LD-066-60W; PL-LD-066-100W; PL-LD-066-115W; PL-LD-066-120W; PL-LD-066-130W; PL-LD-066-150W; PL-LD-066-180W; PL-LD-066-200W; PL-LD-066-240W; PL-LD-067-30W; PL-LD-067-40W; PL-LD-067-50W; PL-LD-067-60W; PL-LD-067-70W; PL-LD-067-80W; PL-LD-067-90W; PL-LD-067-100W; PL-LD-067-115W; PL-LD-067-120W; PL-LD-067-130W; PL-LD-067-150W; PL-LD-067-180W; PL-LD-067-200W; PL-LD-067S-30W; PL-LD-067S-40W; PL-LD-067S-50W; PL-LD-067S-60W; PL-LD-067S-70W; PL-LD-067S-80W; PL-LD-067S-90W; PL-LD-067S-100W; PL-LD-067S-115W; PL-LD-067S-120W; PL-LD-067S-130W; PL-LD-067S-150W; PL-LD-067S-180W; PL-LD-067S-200W; PL-LD-068-80W; PL-LD-068-100W; PL-LD-068-115W; PL-LD-068-120W; PL-LD-068-130W; PL-LD-068-150W; PL-LD-068-180W; PL-LD-068-200W; PL-LD-068-250W; PL-LD-068S-80W; PL-LD-068S-100W; PL-LD-068S-115W; PL-LD-068S-120W; PL-LD-068S-130W; PL-LD-068S-150W; PL-LD-068S-180W; PL-LD-068S-200W; PL-LD-068S-250W; PL-LD-069-30W; PL-LD-069-40W; PL-LD-069-50W; PL-LD-069-60W; PL-LD-069-70W; PL-LD-069-80W; PL-LD-069-90W; PL-LD-069-100W; PL-LD-069-115W; PL-LD-069-120W; PL-LD-069-130W; PL-LD-069-150W; PL-LD-069-180W; PL-LD-069-200W; PL-LD-069-250W; PL-LD-069S-30W; PL-LD-069S-40W; PL-LD-069S-50W; PL-LD-069S-60W; PL-LD-069S-70W; PL-LD-069S-80W;

	PL-LD-069S-90W; PL-LD-069S-100W; PL-LD-069S-115W; PL-LD-069S-120W; PL-LD-069S-130W; PL-LD-069S-150W; PL-LD-069S-180W; PL-LD-069S-200W; PL-LD-069S-250W
Ratings..... :	220-240VAC; 50/60Hz; ta:45°C Other parameters see 'General product information' for details



Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	CB Testing Laboratory:	TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
Testing location/ address.....:		5F, Communication Building, 163 Pingyun Rd, Huangpu Ave. West, Guangzhou 510656, P. R. China
Tested by (name, function, signature).....:		Annie Wang Project Handler
Approved by (name, function, signature)....:		Kenny Chen Designated Reviewer
		
☐	Testing procedure: CTF Stage 1:	
Testing location/ address.....:		
Tested by (name, function, signature).....:		
Approved by (name, function, signature)....:		
☐	Testing procedure: CTF Stage 2:	
Testing location/ address.....:		
Tested by (name + signature)		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)....:		
☐	Testing procedure: CTF Stage 3:	
☐	Testing procedure: CTF Stage 4:	
Testing location/ address.....:		
Tested by (name, function, signature).....:		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)....:		
Supervised by (name, function, signature) :		

List of Attachments (including a total number of pages in each attachment):
Attachment No.1:

2 pages of test report for European group differences and national differences;

Attachment No. 2:

5 pages of test report for EN 62031:2008+A1: 2013+A2:2015 (for LED module);

Attachment No.3:

2 pages of test report for IEC TR 62778:2014 (for blue light risk);

Attachment No.4:

55 pages of test report for Photo documentation.

Summary of testing:
Tests performed (name of test and test clause):

EN 60598-2-3:2003+A1:2011

EN 60598-1:2015+A1:2018

IEC 60529

The LED modules in products were found to comply with the requirements of EN 62031:2008+A1:2013+A2:2015.

The submitted samples were classified as RG1 according to IEC TR 62778:2014.

Models with glass cover were complied with IK08 test, other models were complied with IK09 test according to EN 62262:2002.

The submitted samples were found to comply with the requirements of above test specification.

Testing location:

5F, Communication Building, 163 Pingyun Rd, Huangpu Ave. West, Guangzhou 510656, P. R. China

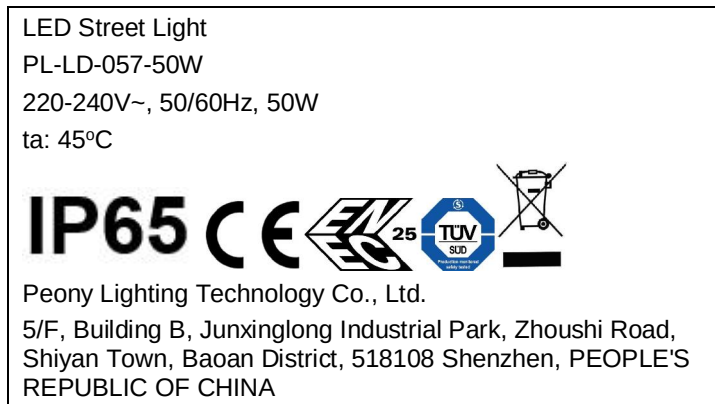
Summary of compliance with National Differences:
List of countries addressed

- European Group difference
 - EN 60598-2-3:2003+A1:2011
 - EN 60598-1:2015+A1:2018

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

1. Label for luminaire. Location: sticking on the front metal enclosure of luminaire. Size: 60mm x 40mm.



The labels of other models are similar with above label, except that the model number, IP degree and rated power are different.

2. Location: sticking on the input cord of luminaire.


Remark:

Height of WEEE mark at least 7mm, height of letters and numerals at least 2mm, height of other marks at least 5mm.

According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

Test item particulars:	
Classification of installation and use: Fixed for indoor and outdoor use	
Supply Connection: Supply cord without plug	
Protection Class: I	
Degree of Protection: See 'General product information' for details	
ta: 45°C	
Possible test case verdicts:	
- test case does not apply to the test object.....: N/A	
- test object does meet the requirement.....: P (Pass)	
- test object does not meet the requirement.....: F (Fail)	
Testing:	
Date of receipt of test item: 2019-02-11; 2019-03-20	
Date (s) of performance of tests: 2019-02-11 to 2019-08-02	
General remarks:	
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☒ comma / ☐ point is used as the decimal separator. Clause numbers between brackets refer to clauses in IEC 60598-1 The manufacturer/ Importer has to ensure the appliance placing on the EU market conforms to the applicable EU directives which provide the affixing of the CE marking, such as LVD, EMC, RoHS, ErP, and so on.	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60598-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies): Same as applicant	

General product information:

LED street light for indoor and outdoor use.

The mounting height is max.15m.

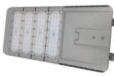
Model list:

Model No.	Rated Power (W)	MEANWELL LED Driver Model	INVENTRONICS LED Driver Model	G-POWER LED Driver Model	Size (mm)	Weight (kg)	LED Quantity / LED Module Quantity (pcs)	LED Type	IP Degree	Max. Projected Area (m²)	Cover type / Representative Photo
057 series models											
PL-LD-057-50W	50	ELG-75-36A	EUC-060S105SVM	HT-HLB-60H-42	350*320*83	3,00	72 / 1	A	IP65	0,112	Plastic cover 
PL-LD-057-80W	80	ELG-75-36A	EUP-075S280SV	HT-HLB-80H-42	425*320*83	4,00	144 / 2	A	IP65	0,136	
PL-LD-057-100W	100	ELG-100-36A	EUP-096S350SV	HT-HLB-100H-42	425*320*83	4,00	144 / 2	A	IP65	0,136	
PL-LD-057-115W	115	ELG-150-36A	EUP-150S560SV	HT-HLB-120H-42	425*320*83	4,00	144 / 2	A	IP65	0,136	
PL-LD-057-120W	120	ELG-150-36A	EUP-150S560SV	HT-HLB-120H-42	425*320*83	4,00	144 / 2	A	IP65	0,136	
PL-LD-057-130W	130	ELG-150-36A	EUP-150S560SV	HT-HLB-150H-42	500*320*83	5,00	216 / 3	A	IP65	0,16	
PL-LD-057-150W	150	ELG-150-36A	EUP-150S560SV	HT-HLB-150H-42	500*320*83	5,00	216 / 3	A	IP65	0,16	
PL-LD-057-180W	180	ELG-200-36A	EUP-200S560SV	HT-HLB-200H-42	500*320*83	5,00	216 / 3	A	IP65	0,16	
PL-LD-057-200W	200	ELG-200-36A	EUP-200S560SV	HT-HLB-200H-42	575*320*83	6,00	288 / 4	A	IP65	0,184	
PL-LD-057-250W	250	ELG-240-36A	EUP-240S670SV	/	650*320*83	7,00	360 / 5	A	IP65	0,208	
057S series models											
PL-LD-057S-50W	50	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	350*320*83	3,00	28 / 1	B	IP65	0,112	Plastic cover 
PL-LD-057S-80W	80	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	425*320*83	4,00	56 / 2	B	IP65	0,136	
PL-LD-057S-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	425*320*83	4,00	56 / 2	B	IP65	0,136	
PL-LD-057S-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	425*320*83	4,00	56 / 2	B	IP65	0,136	
PL-LD-057S-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	425*320*83	4,00	56 / 2	B	IP65	0,136	
PL-LD-057S-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	500*320*83	5,00	84 / 3	B	IP65	0,16	
PL-LD-057S-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	500*320*83	5,00	84 / 3	B	IP65	0,16	
PL-LD-057S-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	500*320*83	5,00	84 / 3	B	IP65	0,16	
PL-LD-057S-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	575*320*83	6,00	112 / 4	B	IP65	0,184	
PL-LD-057S-250W	250	ELG-240-48A	EUP-240S670SV	/	650*320*83	7,00	140 / 5	B	IP65	0,208	

058 series models											
PL-LD-058-80W	80	ELG-75-36A	EUP-075S280SV	HT-HLB-80H-42	550*330*110	5,50	144 / 2	A	IP66	0,182	Plastic cover / 
PL-LD-058-100W	100	ELG-100-36A	EUP-096S350SV	HT-HLB-100H-42	550*330*110	5,50	144 / 2	A	IP66	0,182	
PL-LD-058-115W	115	ELG-150-36A	EUP-150S560SV	HT-HLB-120H-42	550*330*110	5,50	144 / 2	A	IP66	0,182	
PL-LD-058-120W	120	ELG-150-36A	EUP-150S560SV	HT-HLB-120H-42	550*330*110	5,50	144 / 2	A	IP66	0,182	
PL-LD-058-130W	130	ELG-150-36A	EUP-150S560SV	HT-HLB-150H-42	640*330*110	6,65	216 / 3	A	IP66	0,211	
PL-LD-058-150W	150	ELG-150-36A	EUP-150S560SV	HT-HLB-150H-42	640*330*110	6,65	216 / 3	A	IP66	0,211	
PL-LD-058-180W	180	ELG-200-36A	EUP-200S560SV	HT-HLB-200H-42	640*330*110	6,65	216 / 3	A	IP66	0,211	
PL-LD-058-200W	200	ELG-200-36A	EUP-200S560SV	HT-HLB-200H-42	720*330*110	8,25	288 / 4	A	IP66	0,238	
PL-LD-058-250W	250	ELG-240-36A	EUP-240S670SV	/	810*330*110	9,85	360 / 5	A	IP66	0,267	
058S series models											
PL-LD-058S-80W	80	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	550*330*110	5,50	56 / 2	B	IP66	0,182	Plastic cover / 
PL-LD-058S-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	550*330*110	5,50	56 / 2	B	IP66	0,182	
PL-LD-058S-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	550*330*110	5,50	56 / 2	B	IP66	0,182	
PL-LD-058S-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	550*330*110	5,50	56 / 2	B	IP66	0,182	
PL-LD-058S-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	640*330*110	6,65	84 / 3	B	IP66	0,211	
PL-LD-058S-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	640*330*110	6,65	84 / 3	B	IP66	0,211	
PL-LD-058S-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	640*330*110	6,65	84 / 3	B	IP66	0,211	
PL-LD-058S-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	720*330*110	8,25	112 / 4	B	IP66	0,238	
PL-LD-058S-250W	250	ELG-240-48A	EUP-240S670SV	/	810*330*110	9,85	140 / 5	B	IP66	0,267	
060 series models											
PL-LD-060-30W	30	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	530*250*75	4,65	72 / 1	A	IP66	0,133	Glass cover / / 
PL-LD-060-40W	40	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	530*250*75	4,65	72 / 1	A	IP66	0,133	
PL-LD-060-50W	50	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	530*250*75	4,65	72 / 1	A	IP66	0,133	
PL-LD-060-60W	60	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	530*250*75	4,65	72 / 1	A	IP66	0,133	
PL-LD-060-70W	70	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	600*282*75	5,70	144 / 1	A	IP66	0,169	
PL-LD-060-80W	80	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	600*282*75	5,70	144 / 1	A	IP66	0,169	
PL-LD-060-90W	90	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	600*282*75	5,70	144 / 1	A	IP66	0,169	
PL-LD-060-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	600*282*75	5,70	144 / 1	A	IP66	0,169	
PL-LD-060-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	600*282*75	5,70	144 / 1	A	IP66	0,169	
PL-LD-060-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	600*282*75	5,70	144 / 1	A	IP66	0,169	
PL-LD-060-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	693*340*75	8,10	240 / 1	A	IP66	0,236	
PL-LD-060-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	693*340*75	8,10	240 / 1	A	IP66	0,236	
PL-LD-060-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	693*340*75	8,10	240 / 1	A	IP66	0,236	
PL-LD-060-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	693*340*75	8,10	240 / 1	A	IP66	0,236	

061 series models										
PL-LD-061-30W	30	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	535*200*120	4,00	96 / 1	A	IP66	0,107
PL-LD-061-40W	40	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	535*200*120	4,00	96 / 1	A	IP66	0,107
PL-LD-061-50W	50	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	535*200*120	4,00	96 / 1	A	IP66	0,107
PL-LD-061-60W	60	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	535*200*120	4,00	96 / 1	A	IP66	0,107
PL-LD-061-70W	70	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	620*235*125	4,80	144 / 1	A	IP66	0,146
PL-LD-061-80W	80	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	620*235*125	4,80	144 / 1	A	IP66	0,146
PL-LD-061-90W	90	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	620*235*125	4,80	144 / 1	A	IP66	0,146
PL-LD-061-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	620*235*125	4,80	144 / 1	A	IP66	0,146
PL-LD-061-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	620*235*125	4,80	144 / 1	A	IP66	0,146
PL-LD-061-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	690*260*130	6,05	192 / 1	A	IP66	0,179
PL-LD-061-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	690*260*130	6,05	192 / 1	A	IP66	0,179
PL-LD-061-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	690*260*130	6,05	192 / 1	A	IP66	0,179
PL-LD-061-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	810*320*135	8,35	320 / 1	A	IP66	0,259
PL-LD-061-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	810*320*135	8,35	320 / 1	A	IP66	0,259
062 series models										
PL-LD-062-30W	30	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	555*250*110	4,00	144 / 1	A	IP66	0,139
PL-LD-062-40W	40	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	555*250*110	4,00	144 / 1	A	IP66	0,139
PL-LD-062-50W	50	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	555*250*110	4,00	144 / 1	A	IP66	0,139
PL-LD-062-60W	60	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	555*250*110	4,00	144 / 1	A	IP66	0,139
PL-LD-062-70W	70	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	555*250*110	4,00	144 / 1	A	IP66	0,139
PL-LD-062-80W	80	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	555*250*110	4,00	144 / 1	A	IP66	0,139
PL-LD-062-90W	90	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	555*250*110	4,00	144 / 1	A	IP66	0,139
PL-LD-062-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	555*250*110	4,00	144 / 1	A	IP66	0,139
PL-LD-062-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	670*275*110	6,05	192 / 1	A	IP66	0,184
PL-LD-062-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	670*275*110	6,05	192 / 1	A	IP66	0,184
PL-LD-062-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	670*275*110	6,05	192 / 1	A	IP66	0,184
PL-LD-062-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	670*275*110	6,05	192 / 1	A	IP66	0,184
065 series models										
PL-LD-065-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	713*342*91	8,60	192 / 1	A	IP66	0,244
PL-LD-065-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	713*342*91	8,60	192 / 1	A	IP66	0,244
PL-LD-065-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	713*342*91	8,60	192 / 1	A	IP66	0,244
PL-LD-065-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	713*342*91	8,60	192 / 1	A	IP66	0,244
PL-LD-065-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	713*342*91	8,60	192 / 1	A	IP66	0,244
PL-LD-065-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	713*342*91	8,60	256 / 1	A	IP66	0,244
PL-LD-065-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	713*342*91	8,60	256 / 1	A	IP66	0,244



066 series models											
PL-LD-066-50W	50	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	395*320*107	5,50	112 / 1	A	IP66	0,126	Plastic cover / 
PL-LD-066-60W	60	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	395*320*107	5,50	112 / 1	A	IP66	0,126	
PL-LD-066-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	481*320*107	5,82	224 / 2	A	IP66	0,154	
PL-LD-066-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	481*320*107	5,82	224 / 2	A	IP66	0,154	
PL-LD-066-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	481*320*107	5,82	224 / 2	A	IP66	0,154	
PL-LD-066-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	567*320*107	8,05	336 / 3	A	IP66	0,181	
PL-LD-066-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	567*320*107	8,05	336 / 3	A	IP66	0,181	
PL-LD-066-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	567*320*107	8,05	336 / 3	A	IP66	0,181	
PL-LD-066-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	653*320*107	8,80	488 / 4	A	IP66	0,209	
PL-LD-066-240W	240	ELG-240-48A	EUP-240S670SV	/	653*320*107	8,80	488 / 4	A	IP66	0,209	
067 series models											
PL-LD-067-30W	30	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	600*210*109	3,30	96 / 1	A	IP66	0,126	Glass cover / 
PL-LD-067-40W	40	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	600*210*109	3,30	96 / 1	A	IP66	0,126	
PL-LD-067-50W	50	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	600*210*109	3,30	96 / 1	A	IP66	0,126	
PL-LD-067-60W	60	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	600*210*109	3,30	96 / 1	A	IP66	0,126	
PL-LD-067-70W	70	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	706*265*119	6,50	192 / 1	A	IP66	0,187	
PL-LD-067-80W	80	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	706*265*119	6,50	192 / 1	A	IP66	0,187	
PL-LD-067-90W	90	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	706*265*119	6,50	192 / 1	A	IP66	0,187	
PL-LD-067-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	706*265*119	6,50	192 / 1	A	IP66	0,187	
PL-LD-067-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	706*265*119	6,50	192 / 1	A	IP66	0,187	
PL-LD-067-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	706*265*119	6,50	192 / 1	A	IP66	0,187	
PL-LD-067-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	880*352*140	9,50	320 / 1	A	IP66	0,310	
PL-LD-067-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	880*352*140	9,50	320 / 1	A	IP66	0,310	
PL-LD-067-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	880*352*140	9,50	320 / 1	A	IP66	0,310	
PL-LD-067-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	880*352*140	9,50	320 / 1	A	IP66	0,310	

067S series models											
PL-LD-067S-30W	30	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	600*210*109	3,30	24 / 1	B	IP66	0,126	Glass cover / 
PL-LD-067S-40W	40	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	600*210*109	3,30	24 / 1	B	IP66	0,126	
PL-LD-067S-50W	50	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	600*210*109	3,30	24 / 1	B	IP66	0,126	
PL-LD-067S-60W	60	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	600*210*109	3,30	24 / 1	B	IP66	0,126	
PL-LD-067S-70W	70	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	706*265*119	6,50	48 / 1	B	IP66	0,187	
PL-LD-067S-80W	80	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	706*265*119	6,50	48 / 1	B	IP66	0,187	
PL-LD-067S-90W	90	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	706*265*119	6,50	48 / 1	B	IP66	0,187	
PL-LD-067S-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	706*265*119	6,50	48 / 1	B	IP66	0,187	
PL-LD-067S-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	706*265*119	6,50	48 / 1	B	IP66	0,187	
PL-LD-067S-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	706*265*119	6,50	48 / 1	B	IP66	0,187	
PL-LD-067S-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	880*352*140	9,50	80 / 1	B	IP66	0,310	
PL-LD-067S-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	880*352*140	9,50	80 / 1	B	IP66	0,310	
PL-LD-067S-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	880*352*140	9,50	80 / 1	B	IP66	0,310	
PL-LD-067S-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	880*352*140	9,50	80 / 1	B	IP66	0,310	
068 series models											
PL-LD-068-80W	80	ELG-75-36A	EUP-075S280SV	HT-HLB-80H-42	545*356*115	6,00	144 / 2	A	IP66	0,194	Plastic cover / 
PL-LD-068-100W	100	ELG-100-36A	EUP-096S350SV	HT-HLB-100H-42	545*356*115	6,00	144 / 2	A	IP66	0,194	
PL-LD-068-115W	115	ELG-150-36A	EUP-150S560SV	HT-HLB-120H-42	545*356*115	6,00	144 / 2	A	IP66	0,194	
PL-LD-068-120W	120	ELG-150-36A	EUP-150S560SV	HT-HLB-120H-42	545*356*115	6,00	144 / 2	A	IP66	0,194	
PL-LD-068-130W	130	ELG-150-36A	EUP-150S560SV	HT-HLB-150H-42	625*356*115	8,00	216 / 3	A	IP66	0,223	
PL-LD-068-150W	150	ELG-150-36A	EUP-150S560SV	HT-HLB-150H-42	625*356*115	8,00	216 / 3	A	IP66	0,223	
PL-LD-068-180W	180	ELG-200-36A	EUP-200S560SV	HT-HLB-200H-42	625*356*115	8,00	216 / 3	A	IP66	0,223	
PL-LD-068-200W	200	ELG-200-36A	EUP-200S560SV	HT-HLB-200H-42	785*356*115	9,00	288 / 4	A	IP66	0,251	
PL-LD-068-250W	250	ELG-240-36A	EUP-240S670SV	/	785*356*115	11,50	360 / 5	A	IP66	0,279	

068S series models											
PL-LD-068S-80W	80	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	545*356*115	6,00	56 / 2	B	IP66	0,194	Plastic cover / 
PL-LD-068S-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	545*356*115	6,00	56 / 2	B	IP66	0,194	
PL-LD-068S-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	545*356*115	6,00	56 / 2	B	IP66	0,194	
PL-LD-068S-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	545*356*115	6,00	56 / 2	B	IP66	0,194	
PL-LD-068S-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	625*356*115	8,00	84 / 3	B	IP66	0,223	
PL-LD-068S-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	625*356*115	8,00	84 / 3	B	IP66	0,223	
PL-LD-068S-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	625*356*115	8,00	84 / 3	B	IP66	0,223	
PL-LD-068S-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	785*356*115	9,00	112 / 4	B	IP66	0,251	
PL-LD-068S-250W	250	ELG-240-48A	EUP-240S670SV	/	785*356*115	11,50	140 / 5	B	IP66	0,279	
069 series model											
PL-LD-069-30W	30	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	622*320*119	4,50	128 / 1	A	IP66	0,199	Glass cover / 
PL-LD-069-40W	40	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	622*320*119	4,50	128 / 1	A	IP66	0,199	
PL-LD-069-50W	50	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	622*320*119	4,50	128 / 1	A	IP66	0,199	
PL-LD-069-60W	60	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	622*320*119	4,50	128 / 1	A	IP66	0,199	
PL-LD-069-70W	70	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	622*320*119	4,50	192 / 1	A	IP66	0,199	
PL-LD-069-80W	80	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	622*320*119	4,50	192 / 1	A	IP66	0,199	
PL-LD-069-90W	90	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	622*320*119	4,50	192 / 1	A	IP66	0,199	
PL-LD-069-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	622*320*119	4,50	192 / 1	A	IP66	0,199	
PL-LD-069-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	622*320*119	4,50	192 / 1	A	IP66	0,199	
PL-LD-069-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	622*320*119	4,50	192 / 1	A	IP66	0,199	
PL-LD-069-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	720*320*119	8,50	320 / 1	A	IP66	0,230	
PL-LD-069-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	720*320*119	8,50	320 / 1	A	IP66	0,230	
PL-LD-069-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	720*320*119	8,50	320 / 1	A	IP66	0,230	
PL-LD-069-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	902*320*119	9,70	512 / 1	A	IP66	0,289	
PL-LD-069-250W	250	ELG-240-48A	EUP-240S670SV	/	902*320*119	9,70	512 / 1	A	IP66	0,289	

069S series models											
PL-LD-069S-30W	30	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	622*320*119	4,50	32 / 1	B	IP66	0,199	Glass cover / 
PL-LD-069S-40W	40	ELG-75-48A	EUC-035S070SVM	HT-HLB-40H-48	622*320*119	4,50	32 / 1	B	IP66	0,199	
PL-LD-069S-50W	50	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	622*320*119	4,50	32 / 1	B	IP66	0,199	
PL-LD-069S-60W	60	ELG-75-48A	EUC-060S105SVM	HT-HLB-60H-48	622*320*119	4,50	32 / 1	B	IP66	0,199	
PL-LD-069S-70W	70	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	622*320*119	4,50	48 / 1	B	IP66	0,199	
PL-LD-069S-80W	80	ELG-75-48A	EUP-075S175SV	HT-HLB-80H-48	622*320*119	4,50	48 / 1	B	IP66	0,199	
PL-LD-069S-90W	90	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	622*320*119	4,50	48 / 1	B	IP66	0,199	
PL-LD-069S-100W	100	ELG-100-48A	EUP-096S210SV	HT-HLB-100H-48	622*320*119	4,50	48 / 1	B	IP66	0,199	
PL-LD-069S-115W	115	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	622*320*119	4,50	48 / 1	B	IP66	0,199	
PL-LD-069S-120W	120	ELG-150-48A	EUP-150S350SV	HT-HLB-120H-48	622*320*119	4,50	48 / 1	B	IP66	0,199	
PL-LD-069S-130W	130	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	720*320*119	8,50	80 / 1	B	IP66	0,230	
PL-LD-069S-150W	150	ELG-150-48A	EUP-150S350SV	HT-HLB-150H-48	720*320*119	8,50	80 / 1	B	IP66	0,230	
PL-LD-069S-180W	180	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	720*320*119	8,50	80 / 1	B	IP66	0,230	
PL-LD-069S-200W	200	ELG-200-48A	EUP-200S560SV	HT-HLB-200H-48	902*320*119	9,70	128 / 1	B	IP66	0,289	
PL-LD-069S-250W	250	ELG-240-48A	EUP-240S670SV	/	902*320*119	9,70	128 / 1	B	IP66	0,289	
Remark: For LED type, 'A' is 'LUXEON 3030 2D LINE'. 'B' is 'LUXEON 5050'.											

Model PL-LD-057-250W was chosen as representative model to perform IP65 and IK09 tests.

Models PL-LD-058S-250W, PL-LD-066-240W and PL-LD-068S-250W were chosen as representative models to perform IP66 and IK09 tests.

Models PL-LD-060-200W, PL-LD-061-200W, PL-LD-062-150W, PL-LD-065-200W, PL-LD-067-200W and PL-LD-069-250W were chosen as representative models to perform IP66 and IK08 tests.

Models PL-LD-057-250W with 6500K LED: LUXEON 3030 2D LINE and PL-LD-068S-250W with 6500K LED: LUXEON 5050 were chosen as representative models to perform blue light risk tests.

Unless otherwise specified, the models PL-LD-057-250W (with LED driver ELG-240-36A), PL-LD-068S-250W (with LED driver ELG-240-48A) and PL-LD-069-250W (with LED driver EUP-240S670SV) were chosen as representative models to perform all other tests.

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

3.2 (0)	GENERAL TEST REQUIREMENTS		¾
3.2 (0.3)	More sections applicable	Yes ☐ No ☒	¾
3.2 (0.5)	Components	(see Annex 1)	¾
3.2 (0.7)	Information for luminaire design in light sources standards		¾
3.2 (0.7.2)	Light source safety standard	EN 62031	¾
	Luminaire design in the light source safety standard		P

3.4 (2)	CLASSIFICATION OF LUMINAIRES		¾
3.4 (2.2)	Type of protection	Class I	P
3.4 (2.3)	Degree of protection	See 'General product information'	¾
3.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces	Yes ☒ No ☐	¾
3.4 (2.5)	Luminaire for normal use	Yes ☒ No ☐	¾
	Luminaire for rough service	Yes ☐ No ☒	¾
3.4 (-)	Modes of installation of road or street lighting		¾
	a) on a pipe	Yes ☐ No ☒	¾
	b) on a mast arm	Yes ☒ No ☐	¾
	c) on a post top	Yes ☐ No ☒	¾
	d) on span or suspension wires	Yes ☐ No ☒	¾
	e) on a wall	Yes ☐ No ☒	¾

3.5 (3)	MARKING		¾
3.5 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
3.5 (3.3)	Additional information		P
	Language of instructions	English	P
3.5 (3.3.1)	Combination luminaires		N/A
3.5 (3.3.2)	Nominal frequency in Hz	50/60Hz	P
3.5 (3.3.3)	Operating temperature		N/A
3.5 (3.3.5)	Wiring diagram		N/A
3.5 (3.3.6)	Special conditions		N/A
3.5 (3.3.7)	Metal halide lamp luminaire – warning		N/A
3.5 (3.3.8)	Limitation for semi-luminaires		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.5 (3.3.9)	Power factor and supply current		N/A
3.5 (3.3.10)	Suitability for use indoors		N/A
3.5 (3.3.11)	Luminaires with remote control		N/A
3.5 (3.3.12)	Clip-mounted luminaire – warning		N/A
3.5 (3.3.13)	Specifications of protective shields		N/A
3.5 (3.3.14)	Symbol for nature of supply	~	P
3.5 (3.3.15)	Rated current of socket outlet		N/A
3.5 (3.3.16)	Rough service luminaire		N/A
3.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type Y	P
3.5 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
3.5 (3.3.19)	Protective conductor current in instruction if applicable		N/A
3.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
3.5 (3.3.21)	Non-replaceable and non-user replaceable light sources information provided	Non-user replaceable light sources	P
3.5 (3.3.22)	Controllable luminaires, classification of insulation provided		N/A
3.5 (3.3.23)	Luminaire without controlgear provided with necessary information for selection of appropriate component		N/A
3.5 (3.3.24)	If not supplied with terminal block, information on the packaging		P
3.5 (3.4)	Test with water		P
	Test with hexane		P
	Legible after test		P
	Label attached		P
3.5 (-)	Additional information in instruction leaflet		P
	a) Design attitude		P
	b) Weight		P
	c) Overall dimensions		P
	d) Maximum projected area if applicable		P
	e) Cross-sectional area of wires if applicable		N/A
	f) Suitability for indoors use		P
	g) Dimensions of the compartment		N/A
	h) Torque setting to be applied to bolts or screws		P

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
	i) Maximum mounting height		P
3.6 (4)	CONSTRUCTION		¾
3.6 (4.2)	Components replaceable without difficulty		P
3.6 (4.3)	Wireways smooth and free from sharp edges		P
3.6 (4.4)	Lampholders		N/A
3.6 (4.4.1)	Integral lampholder		N/A
3.6 (4.4.2)	Wiring connection		N/A
3.6 (4.4.3)	Lampholder for end-to-end mounting		N/A
3.6 (4.4.4)	Positioning		N/A
	- pressure test (N)		—
	After test the lampholder comply with relevant standard sheets and show no damage		N/A
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation		N/A
	- bending test (N)		—
	After test the lampholder have not moved from its position and show no permanent deformation		N/A
3.6 (4.4.5)	Peak pulse voltage		N/A
3.6 (4.4.6)	Centre contact		N/A
3.6 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
3.6 (4.4.8)	Lamp connectors		N/A
3.6 (4.4.9)	Caps and bases correctly used		N/A
3.6 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way		N/A
3.6 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II		N/A
	Starter holder class II construction		N/A
3.6 (4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
3.6 (4.7)	Terminals and supply connections		P
3.6 (4.7.1)	Contact to metal parts		N/A
3.6 (4.7.2)	Test 8 mm live conductor		P
	Test 8 mm earth conductor		P

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Clause	Requirement + Test	Result - Remark	Verdict
3.6 (4.7.3)	Terminals for supply conductors		P
3.6 (4.7.3.1)	Welded method and material		N/A
	- stranded or solid conductor		N/A
	- spot welding		N/A
	- welding between wires		N/A
	- Type Z attachment		N/A
	- mechanical test according to 15.6.2		N/A
	- electrical test according to 15.6.3		N/A
	- heat test according to 15.6.3.2.3 and 15.6.3.2.4		N/A
3.6 (4.7.4)	Terminals other than supply connection		P
3.6 (4.7.5)	Heat-resistant wiring/sleeves		N/A
3.6 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
3.6 (4.8)	Switches		N/A
	- adequate rating		N/A
	- adequate fixing		N/A
	- polarized supply		N/A
	- compliance with IEC 61058-1 for electronic switches		N/A
3.6 (4.9)	Insulating lining and sleeves		N/A
3.6 (4.9.1)	Retainment		N/A
	Method of fixing		N/A
3.6 (4.9.2)	Insulated linings and sleeves:		N/A
	Resistant to a temperature > 20 °C to the wire temperature or		N/A
	a) & c) Insulation resistance and electric strength		N/A
	b) Ageing test. Temperature (°C)		N/A
3.6 (4.10)	Double or reinforced insulation		N/A
3.6 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		N/A
	Safe installation fixed luminaires		N/A
	Capacitors and switches		N/A
	Interference suppression capacitors according to IEC 60384-14		N/A
3.6 (4.10.2)	Assembly gaps:		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- not coincidental		N/A
	- no straight access with test probe		N/A
3.6 (4.10.3)	Retainment of insulation:		N/A
	- fixed		N/A
	- unable to be replaced; luminaire inoperative		N/A
	- sleeves retained in position		N/A
	- lining in lampholder		N/A
3.6 (4.10.4)	Protective impedance device		N/A
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor		N/A
	Y1 or Y2 capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.1 of IEC 60065		N/A
3.6 (4.11)	Electrical connections and current-carrying parts		P
3.6 (4.11.1)	Contact pressure		P
3.6 (4.11.2)	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
3.6 (4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
3.6 (4.11.4)	Material of current-carrying parts		P
3.6 (4.11.5)	No contact to wood or mounting surface		P
3.6 (4.11.6)	Electro-mechanical contact systems		P
3.6 (4.12)	Screws and connections (mechanical) and glands		P
3.6 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material		N/A
	Torque test: torque (Nm); part.....:	For models with plastic cover: Screws for fixing plastic cover: 0,5Nm	P
	Torque test: torque (Nm); part.....:	For models with glass cover: Screws for fixing glass cover: 2,0Nm	P
	Torque test: torque (Nm); part.....:	Screws for fixing mounting bracket: 2,5Nm/8,0Nm/17,0Nm	P
	Torque test: torque (Nm); part.....:	Screws for earthing terminal and fixing LED module: 0,5Nm;	P

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Clause	Requirement + Test	Result - Remark	Verdict
	Torque test: torque (Nm); part.....:	Screws for fixing LED driver: 1,2Nm	P
	Torque test: torque (Nm); part.....:	Screws for fixing metal enclosure: 1,2Nm/2,0Nm	P
	Torque test: torque (Nm); part.....:	Screws for fixing metal clip; 1,2Nm	P
3.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
3.6 (4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm).....:		N/A
	- lampholder; torque (Nm).....:		N/A
	- push-button switches; torque 0,8 Nm.....:		N/A
3.6 (4.12.5)	Screwed glands; force (Nm).....:	Plastic gland; 3,25Nm; Metal gland; 6,25Nm	P
3.6 (4.13)	Mechanical strength		P
3.6 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm)	Glass cover, plastic cover; 0,5Nm	P
	- other parts; energy (Nm).....:	Metal enclosure; 0,7Nm	P
	1) live parts		P
	2) linings		N/A
	3) protection		P
	4) covers		P
3.6 (4.13.2)	Metal parts have adequate mechanical strength		P
3.6 (4.13.3)	Straight test finger		P
3.6 (4.13.4)	Rough service luminaires		N/A
	- IP54 or higher		N/A
	a) fixed		N/A
	b) hand-held		N/A
	c) delivered with a stand		N/A
	d) for temporary installations and suitable for mounting on a stand		N/A
3.6 (4.13.6)	Tumbling barrel		N/A
3.6 (4.14)	Suspensions, fixings and means of adjusting		P
3.6 (4.14.1)	Mechanical load:		P
	A) four times the weight		P
	B) torque 2,5 Nm		P
	C) bracket arm; bending moment (Nm)		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)		N/A
	Metal rod. diameter (mm)		N/A
	Fixed luminaire or independent control gear without fixing devices		N/A
3.6 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)		—
	Stress in conductors (N/mm ²)		N/A
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire		N/A
3.6 (4.14.3)	Adjusting devices:		P
	- flexing test; number of cycles.....	45 cycles	P
	- strands broken	No strands broken	P
	- electric strength test afterwards		P
3.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
3.6 (4.14.5)	Guide pulleys		N/A
3.6 (4.14.6)	Strain on socket-outlets		N/A
3.6 (4.15)	Flammable materials		P
	- glow-wire test 650°C.....	See Test Table 3.15 (13.3.2)	P
	- spacing ³ 30 mm		N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		P
	- thermal protection		N/A
	- electronic circuits exempted		N/A
3.6 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		N/A
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
3.6 (4.16)	Luminaires for mounting on normally flammable surfaces		N/A
	No lamp control gear		N/A
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.6 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm	Electronic control gears are exempt from the requirements of this clause	N/A
	- spacing 10 mm		N/A
3.6 (4.16.2)	Thermal protection:		N/A
	- in lamp control gear		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp control gear		N/A
3.6 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N/A
3.6 (4.17)	Drain holes		P
	Clearance at least 5 mm	For 057, 057S, 068 and 068S series models	P
3.6 (4.18)	Resistance to corrosion		P
3.6 (4.18.1)	- rust-resistance		N/A
3.6 (4.18.2)	- season cracking in copper		N/A
3.6 (4.18.3)	- corrosion of aluminium		P
3.6 (4.19)	Igniters compatible with ballast		N/A
3.6 (4.20)	Rough service vibration		N/A
3.6 (4.21)	Protective shield		N/A
3.6 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps		N/A
	Shield of glass if tungsten halogen lamps		N/A
3.6 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
3.6 (4.21.3)	No direct path		N/A
3.6 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment.....:	See Test Table 3.15 (13.3.2)	N/A
3.6 (4.22)	Attachments to lamps not cause overheating or damage		N/A
3.6 (4.23)	Semi-luminaires comply Class II		N/A
3.6 (4.24)	Photobiological hazards		P
3.6 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)		N/A
3.6 (4.24.2)	Retinal blue light hazard		P
	Class of risk group assessed according to IEC/TR 62778	RG1	—

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Clause	Requirement + Test	Result - Remark	Verdict
	Luminaires with E_{thr} :		N/A
	a) Fixed luminaires		N/A
	- distance x m, borderline between RG1 and RG2...:		N/A
	- marking and instruction according 3.2.23		N/A
	b) Portable and handheld luminaires		N/A
	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778		N/A
	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12 not exceed RG1 at 200 mm according to IEC/62778		N/A
3.6 (4.25)	Mechanical hazard		P
	No sharp point or edges		P
3.6 (4.26)	Short-circuit protection		N/A
3.6 (4.26.1)	Adequate means of uninsulated accessible SELV parts		N/A
3.6 (4.26.2)	Short-circuit test with test chain according 4.26.3		N/A
	Test chain not melt through		N/A
	Test sample not exceed values of Table 12.1 and 12.2		N/A
3.6 (4.27)	Terminal blocks with integrated screwless earthing contacts		N/A
	Test according Annex V		N/A
	Pull test of terminal fixing (20 N)		N/A
	After test, resistance < 0,05 W		N/A
	Pull test of mechanical connection (50 N)		N/A
	After test, resistance < 0,05 W		N/A
	Voltage drop test, resistance < 0,05 W		N/A
3.6 (4.28)	Fixing of thermal sensing control		N/A
	Not plug-in or easily replaceable type		N/A
	Reliably kept in position		N/A
	No adhesive fixing if UV radiations from a lamp can degrade the fixing		N/A
	Not outside the luminaire enclosure		N/A
	Test of adhesive fixing:		N/A
	Max. temperature on adhesive material (°C):		—
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
3.6 (4.29)	Luminaires with non-replaceable light source		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Not possible to replace light source		N/A
	Live part not accessible after parts have been opened by hand or tools		N/A
3.6 (4.30)	Luminaires with non-user replaceable light source		N/A
	If protective cover provide protection against electric shock and marked with "caution, electric shock risk" symbol:		N/A
	Minimum two fixing means		N/A
3.6 (4.31)	Insulation between circuits		P
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		P
	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3		N/A
3.6 (4.31.1)	SELV circuits		P
	Used SELV source		P
	Voltage $\leq$ ELV		P
	Insulating of SELV circuits from LV supply		P
	Insulating of SELV circuits from other non SELV circuits		N/A
	Insulating of SELV circuits from FELV		N/A
	Insulating of SELV circuits from other SELV circuits		N/A
	SELV circuits insulated from accessible parts according Table X.1		P
	Plugs not able to enter socket-outlets of other voltage systems		P
	Socket outlets does not admit plugs of other voltage systems		P
	Plugs and socket-outlets does not have protective conductor contact		P
3.6 (4.31.2)	FELV circuits		N/A
	Used FELV source		N/A
	Voltage $\leq$ ELV		N/A
	Insulating of FELV circuits from LV supply		N/A
	FELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to enter socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Socket-outlets does not have protective conductor contact		N/A
3.6 (4.31.3)	Other circuits		N/A
	Other circuits insulated from accessible parts according Table X.1		N/A
	Class II construction with equipotential bonding for protection against indirect contacts with live parts:		N/A
	- conductive parts are connected together		N/A
	- test according 7.2.3		N/A
	- conductive part not cause an electric shock in case of an insulation fault		N/A
	- equipotential bonding in master/slave applications		N/A
	- master luminaire provided with terminal for accessible conductive parts of slave luminaires		N/A
	- slave luminaire constructed as class I		N/A
3.6 (4.32)	Overvoltage protective devices		N/A
	Comply with IEC 61643-11		N/A
	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A
3.6.1 (-)	At least IP X3 or X5 respectively. IP :	IP65 or IP66	P
	Column-integrated luminaires:		N/A
	- parts below 2,5 m. IP :		N/A
	- parts above 2,5 m. IP :		N/A
3.6.2 (-)	Suspension on span wires		N/A
3.6.3 (-)	Means for attaching the luminaire or external parts to its support appropriate to the weight		P
3.6.3.1 (-)	Static load test		P
	- drag coefficient..... :	1,2	P
	- loaded area (m²)..... :	Max.0,31	P
	- used load (N)..... :	Max.740N	P
	- measured deformation (cm/m) :	Max.1,74	P
	- no rotation		P
3.6.4 (-)	Adjustable lampholders		N/A
3.6.5 (-)	Luminaires installed above 5 m, glass covers shall be:		P
	a) glass that fractures into small pieces (test according to 3.6.5.1), or		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) glass having a high impact shock resistance (test according to 3.6.5.2), or	For models with glass cover	P
	c) protected by any means to retain glass fragments		N/A
	For tunnel luminaires 3.6.5.1 apply		N/A
	Method of protection declared by the manufacturer		P
3.6.5.1 (-)	Protection by the use of glass that fractures into small pieces		N/A
	- number of particles is more than 40..... :		N/A
3.6.5.2 (-)	Protection by the use of high impact resistant glass		P
3.6.5.2.1 (-)	Glass covers have high mechanical strength		P
	Test according IEC 62262 with test apparatus according IEC 60068-2-75 with impact energy of 5J on preconditioned sample		P
3.6.5.2.2 (-)	Glass covers not break into large pieces		P
	- test according 3.6.5.1, number of particles is more than 20..... :	98 pcs	P
3.6.6 (-)	Connection compartment of column-integrated luminaire		N/A
	- provides adequate space		N/A
	- means for attachment		N/A
	- means for attachment of metal corrosion-resistant		N/A
3.6.7 (-)	Compliance with ISO standard or other..... :		N/A
3.6.8 (-)	Doors of column-integrated luminaires:		N/A
	- corrosion-resistant		N/A
	- opening only possible for an authorized person		N/A
	- impact test 5 Nm		N/A
	- sample show no damage		N/A
3.6.9 (-)	Column-integrated luminaire:		N/A
	- dimension of the cable entry slot (mm)..... :		N/A
	- cable path from the slot to the connection compartment (mm) :		N/A
	- cable path free from obstruction that might cause abrasion of the cable		N/A

3.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		¾
3.7 (11.2.1)	Impulse withstand category (Normal category II)	Category II ☒ Category III ☐	¾
	Category III according Annex U		N/A
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.7 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 3.7 (11.2) I	P
	Creepage distances for frequency over 30 kHz:		N/A
	- Controlgear marked with $\hat{U}_{OUT}$ and f_{UOUT} according IEC 61347-1, clause 7.1, item w	See Test Table 3.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 3.7 (11.2) II	N/A
3.7 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 3.7 (11.2) I	P
	Clearances distances for frequency over 30 kHz:		N/A
	- Controlgear marked with U_P	See Test Table 3.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 3.7 (11.2) II	N/A

3.8 (7)	PROVISION FOR EARTHING		¾
3.8 (7.2.1 + 7.2.3)	Accessible metal parts		P
	Metal parts in contact with supporting surface		P
	Resistance < 0,5 W.....:	Max.0,05W	P
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a groove		N/A
	Earth makes contact first		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
	Protective earthing of the luminaire not via built-in control gear	For all models except 057 and 057S series	P
3.8 (7.2.2 + 7.2.3)	Earth continuity in joints, etc.		P
3.8 (7.2.4)	Locking of clamping means		P
	Compliance with 4.7.3		P
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
3.8 (7.2.5)	Earth terminal integral part of connector socket		N/A
3.8 (7.2.6)	Earth terminal adjacent to mains terminals		P
3.8 (7.2.7)	Electrolytic corrosion of the earth terminal		P
3.8 (7.2.8)	Material of earth terminal		P
	Contact surface bare metal		P
3.8 (7.2.10)	Class II luminaire for looping-in		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Double or reinforced insulation to functional earth		N/A
3.8 (7.2.11)	Earthing core coloured green-yellow		P
	Length of earth conductor		P
3.8.1 (-)	Attachment prevented from rotation		N/A
3.9 (14)	SCREW TERMINALS		¾
	Separately approved; component list	(see Annex 1)	P
	Part of the luminaire	(see Annex 3)	N/A
3.9 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		¾
	Separately approved; component list	(see Annex 1)	P
	Part of the luminaire	(see Annex 4)	P
3.10 (5)	EXTERNAL AND INTERNAL WIRING		¾
3.10 (5.2)	Supply connection and external wiring		P
3.10 (5.2.1)	Means of connection.....	Supply cord without plug	P
	Outdoor luminaire has not PVC insulated external wiring if not class III or SELV ≤ 25 V a.c./60 V d.c. or protected from outdoor environment		N/A
3.10 (5.2.2)	Type of cable.....	H05RN-F	P
	Nominal cross-sectional area (mm²).....	3x1,0mm²	P
	Cables equal to IEC 60227 or IEC 60245		P
3.10 (5.2.3)	Type of attachment, X, Y or Z	Type Y	P
3.10 (5.2.5)	Type Z not connected to screws		N/A
3.10 (5.2.6)	Cable entries:		P
	- suitable for introduction		P
	- adequate degree of protection		P
3.10 (5.2.7)	Cable entries through rigid material have rounded edges		P
3.10 (5.2.8)	Insulating bushings:		P
	- suitably fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- tubes or guards made of insulating material		N/A
3.10 (5.2.9)	Locking of screwed bushings		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.10 (5.2.10)	Cord anchorage:		P
	- covering protected from abrasion		P
	- clear how to be effective		P
	- no mechanical or thermal stress		P
	- no tying of cables into knots etc.		P
	- insulating material or lining		P
3.10 (5.2.10.1)	Cord anchorage for type X attachment:		N/A
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A
3.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	Type Y	P
3.10 (5.2.10.3)	Tests:		P
	- impossible to push cable; unsafe		P
	- pull test: 25 times; pull (N): See clause 3.10.1(-)		P
	- torque test: torque (Nm).....: See clause 3.10.1(-)		P
	- displacement ± 2 mm		P
	- no movement of conductors		P
	- no damage of cable or cord		P
	- function independent of electrical connection		P
3.10 (5.2.11)	External wiring passing into luminaire		P
3.10 (5.2.12)	Looping-in terminals		N/A
3.10 (5.2.13)	Wire ends not tinned		P
	Wire ends tinned: no cold flow		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
3.10 (5.2.14)	Mains plug same protection		N/A
	Class III luminaire plug		P
	No unsafe compatibility		P
3.10 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Installation couplers (IEC 61535)		N/A
	Other appliance inlet or connector according relevant IEC standard		N/A
3.10 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
3.10 (5.2.18)	Used plug in accordance with		N/A
	- IEC 60083		N/A
	- other standard		N/A
3.10 (5.3)	Internal wiring		P
3.10 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		N/A
	- not delivered/ mounting instruction		N/A
	- factory assembled		N/A
	- socket outlet loaded (A).....:		N/A
	- temperatures.....:	(see Annex 2)	N/A
	Green-yellow for earth only		P
3.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring		P
	Cross-sectional area (mm ²)	See Annex 1	P
	Insulation thickness (mm)	Approved cord	P
	Extra insulation added where necessary		N/A
3.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		P
	Cross-sectional area (mm ²)	See Annex 1	P
3.10 (5.3.1.3)	Double or reinforced insulation for class II		P
3.10 (5.3.1.4)	Conductors without insulation		N/A
3.10 (5.3.1.5)	SELV current-carrying parts		P

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Clause	Requirement + Test	Result - Remark	Verdict
3.10 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
3.10 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.		P
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		N/A
	No twisting over 360°		P
3.10 (5.3.3)	Insulating bushings:		N/A
	- suitable fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- cables with protective sheath		N/A
3.10 (5.3.4)	Joints and junctions effectively insulated		N/A
3.10 (5.3.5)	Strain on internal wiring		N/A
3.10 (5.3.6)	Wire carriers		N/A
3.10 (5.3.7)	Wire ends not tinned		P
	Wire ends tinned: no cold flow		P
3.10 (5.4)	Test to determine suitability of conductors having a reduced cross-sectional area		N/A
	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	N/A
	No damage to luminaire wiring after test		N/A
3.10.1 (-)	Cord anchorage if applicable		P
	- pull test: 25 times; pull (N)	60N	P
	- torque test: torque (Nm).....	0,25Nm	P

3.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		¾
3.11 (8.2.1)	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection		P
	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires		P
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires		N/A
	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Basic insulation only accessible under lamp or starter replacement		N/A
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable		N/A
	Double-ended high-pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
3.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position		N/A
3.11 (8.2.3.a)	Class II luminaire:		N/A
	- basic insulated metal parts not accessible during starter or lamp replacement		N/A
	- basic insulation not accessible other than during starter or lamp replacement		N/A
	- glass protective shields not used as supplementary insulation		N/A
3.11 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed		N/A
3.11 (8.2.3.c)	SELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load (V)		N/A
	- no-load voltage (V)		N/A
	- touch current if applicable (mA)		N/A
	One conductive part insulated if required		N/A
	Other than ordinary luminaire:		N/A
	- nominal voltage (V)		N/A
	Class III luminaire only for connection to SELV		N/A
	Class III luminaire not provided with means for protective earthing		N/A
3.11 (8.2.4)	Portable luminaire has protection independent of supporting surface		N/A
3.11 (8.2.5)	Compliance with the standard test finger or relevant probe		P
3.11 (8.2.6)	Covers reliably secured		P
3.11 (8.2.7)	Luminaire other than below with capacitor > 0,5 nF not exceed 50 V 1 min after disconnection		P

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Clause	Requirement + Test	Result - Remark	Verdict
	Portable luminaire with capacitor > 0,1 nF (0.25) not exceed 34 V 1 s after disconnection		N/A
	Other luminaires with capacitor > 0,1 nF (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection		N/A

3.12 (12)	ENDURANCE TEST AND THERMAL TEST		¾
3.12.2 (-)	If IP > IP 20 relevant test of (12.4), (12.5) and (12.6) after (9.2) before (9.3) specified in 3.13		¾
3.12 (12.2)	Selection of lamps and ballasts		¾
	Lamp used according Annex B	(Lamp used see Annex 2)	??
	Controlgear if separate and not supplied	(Controlgear used see Annex 2)	¾
3.12 (12.3)	Endurance test		P
	a) mounting-position	As in normal use	¾
	b) test temperature (°C)	55°C	¾
	c) total duration (h)	240h	¾
	d) supply voltage (V)	264V	¾
	d) if not equipped with controlgear, constant voltage/current (V) or (A)		¾
	e) luminaire ceases to operate		¾
3.12 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A
	- marking legible		P
	- no cracks, deformation etc.		P
3.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
3.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	P
3.12 (12.6)	Thermal test (failed lamp control gear condition):		N/A
3.12 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)		¾
	- case of abnormal conditions		¾
	- electronic lamp control gear		N/A
	- measured winding temperature (°C): at 1,1 Un		¾
	- measured mounting surface temperature (°C) at 1,1 Un		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	- calculated mounting surface temperature (°C)		N/A
	- track-mounted luminaires		N/A
3.12 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions		¾
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured mounting surface temperature (°C)		N/A
	- track-mounted luminaires		N/A
3.12 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		N/A
3.12 (12.7.1)	Luminaire without temperature sensing control		N/A
3.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A
	Test method 12.7.1.1 or Annex W		¾
	Test according to 12.7.1.1:		N/A
	- case of abnormal conditions		¾
	- Ballast failure at supply voltage (V)		¾
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
	Test according to Annex W:		N/A
	- case of abnormal conditions		¾
	- measured winding temperature (°C): at 1,1 Un		¾
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un		¾
	- calculated temperature of fixing point/exposed part (°C)		¾
	Ball-pressure test.....	See Test Table 3.15 (13.2.1)	N/A
3.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions		¾
	- measured winding temperature (°C): at 1,1 Un		¾
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un		¾
	- calculated temperature of fixing point/exposed part (°C)		¾

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Clause	Requirement + Test	Result - Remark	Verdict
	Ball-pressure test.....:	See Test Table 3.15 (13.2.1)	N/A
3.12 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		N/A
	- case of abnormal conditions		¾
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
3.12 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link.....:	Yes ☐ No ☐	¾
	- manual reset cut-out.....:	Yes ☐ No ☐	¾
	- auto reset cut-out	Yes ☐ No ☐	¾
	- case of abnormal conditions		¾
	- highest measured temperature of fixing point/ exposed part (°C):		¾
	Ball-pressure test:.....:	See Test Table 3.15 (13.2.1)	N/A
3.12.1 (-)	Temperature reduction if for outdoor use only		N/A
3.12.2 (-)	(See above)		¾
3.12.3 (-)	Glass covers used within the thermal limits declared by the glass manufacturer	For models with glass cover	P

3.13 (9)	RESISTANCE TO DUST AND MOISTURE		¾
3.13.1 (-)	If IP > IP 20 the order of tests as specified in clause 3.12		P
3.13 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP.....:	IP65 [for 057 and 057S series models]; IP66 [for other models]	¾
	- mounting position during test.....:	As in normal use	¾
	- fixing screws tightened; torque (Nm).....:	Plastic gland: 2,17Nm; Metal gland: 4,17Nm; Screws for plastic cover: 0,33Nm; Screws for glass cover: 1,33Nm	¾
	- tests according to clauses	9.2.2 and 9.2.6 [for 057 and 057S series models]; 9.2.2 and 9.2.7 [for other models]	¾
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) no talcum in dust-tight luminaire		P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		P
	c.1) For luminaires without drain holes – no water entry		P
	c.2) For luminaires with drain holes – no hazardous water entry	For 057, 057S, 068 and 068S series models	P
	d) no water in watertight or pressure watertight luminaire		N/A
	e) no contact with live parts (IP 2X)		N/A
	e) no entry into enclosure (IP 3X and IP 4X)		N/A
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		N/A
	f) no trace of water on part of lamp requiring protection from splashing water		N/A
	g) no damage of protective shield or glass envelope	For models with glass cover	P
3.13 (9.3)	Humidity test 48 h	25°C; R.H. 93%	P

3.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		¾
3.14 (10.2.1)	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		¾
	Insulation resistance (MW)		¾
	SELV		P
	- between current-carrying parts of different polarity :		N/A
	- between current-carrying parts and mounting surface	100 MW (required: 1MW)	P
	- between current-carrying parts and metal parts of the luminaire.....	100 MW (required: 1MW)	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A
	Other than SELV		P
	- between live parts of different polarity		N/A
	- between live parts and mounting surface	100MW (required: 2MW)	P
	- between live parts and metal parts.....	100MW (required: 2MW)	P

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Clause	Requirement + Test	Result - Remark	Verdict
	- between live parts of different polarity through action of a switch.....:		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A
3.14 (10.2.2)	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V)		N/A
	SELV		P
	- between current-carrying parts of different polarity :		N/A
	- between current-carrying parts and mounting surface	500V	P
	- between current-carrying parts and metal parts of the luminaire.....:	500V	P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A
	Other than SELV		P
	- between live parts of different polarity		N/A
	- between live parts and mounting surface	1480V	P
	- between live parts and metal parts.....:	1480V	P
	- between live parts of different polarity through action of a switch.....:		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A
3.14 (10.3)	Touch current or protective conductor current (mA):	Protective conductor current: Max. 0,61mA (limit: 3,5 mA)	P
3.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		¾
3.15 (13.2.1)	Ball-pressure test.....:	See Test Table 3.15 (13.2.1)	P
3.15 (13.3.1)	Needle-flame test (10 s)	See Test Table 3.15 (13.3.1)	P

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Clause	Requirement + Test	Result - Remark	Verdict
3.15 (13.3.2)	Glow-wire test (650°C).....:	See Test Table 3.15 (13.3.2)	N/A
3.15 (13.4)	Proof tracking test (IEC 60112).....:	See Test Table 3.15 (13.4)	P

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Clause	Requirement + Test	Result - Remark	Verdict

3.7 (11.2)	TABLE I: Creepage distances and clearances						P
	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages						P
	Applicable part of IEC 60598-1 Table 11.1.A*, 11.1.B* and 11.2*						P
	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:	B	1,8	0,5	11.1.B	1,8	1,25	11.1.A
Distance 2:	B	2,2	0,5	11.1.B	2,2	1,4	11.1.A
Distance 3:	B	2,8	1,5	11.1.B	2,8	2,5	11.1.A
Distance 4:	B	3,0	1,5	11.1.B	3,0	2,5	11.1.A
Working voltage (V)					See below		¾
PTI					< 600 ☒ ≥ 600 ☐		¾
Pulse voltage or U_P if applicable (kV)					--		¾
Supplementary information: min. values were recorded.							
Distance 1: Current-carrying parts of LED module and metal enclosure for 058, 058S, 065, 068 and 068S series models (85VDC).							
Distance 2: Current-carrying parts of LED module and metal enclosure for other models (100VDC).							
Distance 3: Between input terminal block and metal enclosure for models except 057 and 057S series models (240VAC).							
Distance 4: Between input connector and metal enclosure for 057 and 057S series models (240VAC).							
Approved SELV LED drivers, AC/DC waterproof connector and terminal block used.							

** Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.

3.7 (11.2)	TABLE II: Creepage distances and clearances						N/A
Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages							
Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2							
Distances	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:	--	--	--	--	--	--	--
Working voltage (V)					--		¾
Frequency if applicable (kHz)					--		¾
PTI					< 600 ☐ ≥ 600 ☐		¾
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV)					--		¾
Supplementary information: --							

** Insulation type: B – Basic; S – Supplementary; R – Reinforced.

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Clause	Requirement + Test	Result - Remark	Verdict

3.15 (13.2.1)	TABLE: Ball Pressure Test of Thermoplastics			P
Allowed impression diameter (mm)		≤ 2mm		¾
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	
AC/DC waterproof connector for 057 and 057S series models	Dongguan De Zhi Hermetic technique	125	1,2	
Bifurcate terminal for models with more than one LED module except 066 series models	LI LU TONG	125	1,4	
Waterproof connector of bifurcate terminal for models with more than one LED module except 066 series models	LI LU TONG	125	1,4	
Bifurcate terminal for 066 series models	LI LU TONG	125	1,1	
SMT connector on LED module	Shenzhen Bo da	125	1,1	
Supplementary information: --				

3.15 (13.3.1)	TABLE: Needle-flame test (IEC 60695-11-5)				P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Bifurcate terminal for models with more than one LED module except 066 series models	LI LU TONG	10	No	0,7	Pass
Waterproof connector of bifurcate terminal for models with more than one LED module except 066 series models	LI LU TONG	10	No	0,9	Pass
Bifurcate terminal for 066 series models	LI LU TONG	10	No	4,8	Pass
SMT connector on LED module	Shenzhen Bo da	10	No	2,1	Pass
Supplementary information: --					

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

3.15 (13.3.2)	TABLE: Glow-wire test (IEC 60695-2-11)				P
Glow wire temperature:			650°C		¾
Object/ Part No./ Material	Manufacturer/ trademark		Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Plastic cover and lens	ARKEMA		No	0	P
Supplementary information: --					

3.15 (13.4)	TABLE: Proof tracking test (IEC 60112)				P
Test voltage PTI		175 V			¾
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens			Verdict
Bifurcate terminal for models with more than one LED module except 066 series models	LI LU TONG	YES	YES	YES	PASS
Waterproof connector of bifurcate terminal for models with more than one LED module except 066 series models	LI LU TONG	YES	YES	YES	PASS
Bifurcate terminal for 066 series models	LI LU TONG	YES	YES	YES	PASS
Plastic cover	ARKEMA	YES	YES	YES	PASS
Supplementary information: --					

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Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1 TABLE: Critical components information						P
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
LED driver for models, see 'General product information'	B	INVENTRONIC S (HANGZHOU)	EUC-035S070SVM	I/P:120-240VAC; 50/60Hz; Max.0,38A; O/P: 25-64VDC; 0,7A; Max.80VDC; Max.35W; CC; ta:70°C; tc:90°C; Independent; SELV; Class I; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62493	TÜV SÜD B 17 12 79136 216
LED driver for models, see 'General product information'	B	INVENTRONIC S (HANGZHOU)	EUC-060S105SVM	I/P:120-240VAC; 50/60Hz; Max.0,6A; O/P: 34-80VDC; 1,05A; Max.100VDC; 60W; CC; ta:55°C; tc:90°C; Independent; SELV; Class I; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62493	TÜV SÜD B 17 09 79136 181
LED driver for models, see 'General product information'	B	INVENTRONIC S (HANGZHOU)	EUP-075S175SV	I/P:100-240V; 50/60Hz; Max.0,91A; O/P: 22-63VDC; Max. 1,75A; Max.75W; Max. 78VDC; CC; Independent; Class I; SELV; ta:50°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC18 HN 69261356 0001
LED driver for models, see 'General product information'	B	INVENTRONIC S (HANGZHOU)	EUP-075S280SV	I/P:100-240V; 50/60Hz; Max.0,91A; O/P: 14-39VDC; Max. 2,8A; Max.75W; Max. 59VDC; CC; Independent; Class I; SELV; ta:50°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC18 HN 69261356 0001

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Clause	Requirement + Test			Result - Remark		Verdict
LED driver for models, see 'General product information'	B	INVENTRONIC S (HANGZHOU)	EUP-096S210SV	I/P:100-240V; 50/60Hz; Max.1,2A; O/P: 24-69VDC; Max.2,1A; Max.96W; Max. 85VDC; CC; Independent; Class I; SELV; ta:60°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC18 HN 69258449
LED driver for models, see 'General product information'	B	INVENTRONIC S (HANGZHOU)	EUP-096S350SV	I/P:100-240V; 50/60Hz; Max.1,2A; O/P: 14-36VDC; Max.3,5A; Max.96W; Max. 42VDC; CC; Independent; Class I; SELV; ta:60°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC18 HN 69258449
LED driver for models, see 'General product information'	B	INVENTRONIC S (HANGZHOU)	EUP-150S350SV	I/P:100-240V; 50/60Hz; Max.1,65A; O/P: 22-61VDC; Max.3,5A; Max.150W; Max. 70VDC; CC; Independent; Class I; SELV; ta:45°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC18 HN 69261082 0001
LED driver for models, see 'General product information'	B	INVENTRONIC S (HANGZHOU)	EUP-150S560SV	I/P:100-240V; 50/60Hz; 1,65A max.; O/P:14-36VDC; Max.5,6A; Max.150W; Max. 40VDC; CC; Independent; Class I; SELV; ta:45°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC18 HN 69261082 0001

IEC 60598-2-3						
Clause	Requirement + Test			Result - Remark		Verdict
LED driver for models, see 'General product information'	B	INVENTRONICS (HANGZHOU)	EUP-200S560SV	I/P:220-240V; 50/60Hz; 2,25A max.; O/P: 18-52VDC; Max.5,6A; Max.200W; Max. 60VDC; CC; Independent; Class I; SELV; ta: 55°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC18 HN 69257905
LED driver for models, see 'General product information'	B	INVENTRONICS (HANGZHOU)	EUP-240S670SV	I/P:220-240V; 50/60Hz; 2,9A max.; O/P: 18-52VDC; Max.6,7A; Max.240W; Max. 70VDC; CC; Independent; Class I; SELV; ta:50°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC18 HN 69257905
LED driver for models, see 'General product information'	B	MEAN WELL	ELG-75-48A	I/P:100-240VAC; 50/60Hz; 0,7A; O/P: 48VDC; 60W (100-240VAC); 76,8W (220-240VAC); CV; Independent; SELV; Class I; ta:60°C; tc:85°C; IP65; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC HN 69260141
LED driver for models, see 'General product information'	B	MEAN WELL	ELG-75-36A	I/P:100-240VAC; 50/60Hz; 0,7A; O/P: 36VDC; 60W (100-240VAC); 75,6W (220-240VAC); CV; Independent; SELV; Class I; ta:60°C; tc:85°C; IP65; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC HN 69260141

IEC 60598-2-3						
Clause	Requirement + Test			Result - Remark		Verdict
LED driver for models, see 'General product information'	B	MEAN WELL	ELG-100-48A	I/P:100-240VAC; 50/60Hz; 1,1A; O/P: 48VDC; 96W (input:200-240Vac); 70W (input: 100-240Vac); CV; Independent; SELV; Class I; ta:60°C; tc:90°C; IP65; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	DEKRA ENEC 35-103341
LED driver for models, see 'General product information'	B	MEAN WELL	ELG-100-36A	I/P:100-240VAC; 50/60Hz; 1,1A; O/P: 36VDC; 95,76W (input:200-240Vac); 70W (input: 100-240Vac); CV; Independent; SELV; Class I; ta:60°C; tc:90°C; IP65; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	DEKRA ENEC 35-103341
LED driver for models, see 'General product information'	B	MEAN WELL	ELG-150-48A	I/P:100-240VAC; 50/60Hz; 1,7A; O/P: 48VDC; 150,2W (input:200-240Vac); 105W (input: 100-240Vac); CV; Independent; SELV; Class I; ta:55°C; tc:90°C; IP65; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	DEKRA ENEC 35-103225
LED driver for models, see 'General product information'	B	MEAN WELL	ELG-150-36A	I/P:100-240VAC; 50/60Hz; 1,7A; O/P: 36VDC; 150,1W (input:200-240Vac); 105W (input: 100-240Vac); CV; Independent; SELV; Class I; ta:55°C; tc:90°C; IP65; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	DEKRA ENEC 35-103225

IEC 60598-2-3						
Clause	Requirement + Test			Result - Remark		Verdict
LED driver for models, see 'General product information'	B	MEAN WELL	ELG-200-48A	I/P:100-240VAC; 50/60Hz; 1,8A; O/P: 48VDC; 199,68W (input:200-240Vac); 149,76W (input: 100-240Vac); CV; Independent; SELV; Class I; ta:50°C; tc:90°C; IP65; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC HN 69260037
LED driver for models, see 'General product information'	B	MEAN WELL	ELG-200-36A	I/P:100-240VAC; 50/60Hz; 1,8A; O/P: 36VDC; 199,8W (input:200-240Vac); 149,76W (input: 100-240Vac); CV; Independent; SELV; Class I; ta:50°C; tc:90°C; IP65; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC HN 69260037
LED driver for models, see 'General product information'	B	MEAN WELL	ELG-240-48A	I/P:100-240VAC; 50/60Hz; 2,2A; O/P: 48VDC; 240W (input:200-240Vac); 180W (input: 100-240Vac); CV; Independent; SELV; Class I; ta:50°C; tc:90°C; IP65; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC HN 69260037
LED driver for models, see 'General product information'	B	MEAN WELL	ELG-240-36A	I/P:100-240VAC; 50/60Hz; 2,2A; O/P: 36VDC; 239,76W (input:200-240Vac); 180W (input: 100-240Vac); CV; Independent; SELV; Class I; ta:50°C; tc:90°C; IP65; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland ENEC HN 69260037

IEC 60598-2-3						
Clause	Requirement + Test			Result - Remark		Verdict
LED driver for models, see 'General product information'	B	G-POWER SUPPLY	HT-HLB-40H-48	I/P: 100-277VAC; 50/60Hz; 0,6A; O/P: 36-48VDC; Max.60VDC; 900mA; 44W; CC; Independent; SELV; Class I; ta:60°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland R 50425023
LED driver for models, see 'General product information'	B	G-POWER SUPPLY	HT-HLB-60H-48	I/P: 100-277VAC; 50/60Hz; 0,85A; O/P: 36-48VDC; Max.60VDC; 1300mA; 62W; CC; Independent; SELV; Class I; ta:60°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland R 50425023
LED driver for models, see 'General product information'	B	G-POWER SUPPLY	HT-HLB-80H-48	I/P: 100-277VAC; 50/60Hz; 1,0A; O/P: 36-48VDC; Max.63VDC; 1800mA; 86W; CC; Independent; SELV; Class I; ta:60°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland R 50425023
LED driver for models, see 'General product information'	B	G-POWER SUPPLY	HT-HLB-100H-48	I/P: 100-277VAC; 50/60Hz; 1,3A; O/P: 36-48VDC; Max.63VDC; 2100mA; 101W; CC; Independent; SELV; Class I; ta:60°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland R 50425023

IEC 60598-2-3						
Clause	Requirement + Test			Result - Remark		Verdict
LED driver for models, see 'General product information'	B	G-POWER SUPPLY	HT-HLB-120H-48	I/P: 100-277VAC; 50/60Hz; 1,6A; O/P: 36-48VDC; Max.60VDC; 2700mA; 130W; CC; Independent; SELV; Class I; ta:60°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland R 50425023
LED driver for models, see 'General product information'	B	G-POWER SUPPLY	HT-HLB-150H-48	I/P: 100-277VAC; 50/60Hz; 1,8A; O/P: 36-48VDC; Max.60VDC; 3100mA; 149W; CC; Independent; SELV; Class I; ta:60°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland R 50425023
LED driver for models, see 'General product information'	B	G-POWER SUPPLY	HT-HLB-180H-48	I/P: 100-277VAC; 50/60Hz; 2,2A; O/P: 36-48VDC; Max.60VDC; 3750mA; 180W; CC; Independent; SELV; Class I; ta:60°C; tc:90°C; IP67; Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland R 50425023
LED driver for models, see 'General product information'	B	G-POWER SUPPLY	HT-HLB-200H-48	I/P: 100-277VAC; 50/60Hz; 2,4A; O/P: 36-48VDC; Max.60VDC; 4200mA; 202W; CC; Independent; SELV; Class I; ta:60°C; tc:90°C; IP67 Input cord (H05RN-F; 3x1,0mm ²); Output cord (H05RN-F; 2x1,0mm ²)	EN 61347-1 EN 61347-2-13 EN 62384	TÜV Rheinland R 50425023
Earthing wire	B	DONGGUAN CHENG XING ELECTRONIC	1007; 1015	Min. 300VAC; Min. 20AWG; Min. 80°C	--	UL E249743
Supply cord	B	Wuxi Zhonghui Wire & Cable	H05RN-F	3*1,0 mm ²	EN 50525-2-21	VDE 40020334

IEC 60598-2-3						
Clause	Requirement + Test			Result - Remark		Verdict
AC/DC waterproof connector for 057 and 057S series models	B	Dongguan De Zhi Hermetic technique	JXC	400VAC/DC; IP68; 2,5mm ² ; Screw type; Multiway: 2 (for DC waterproof connector) or 3 (for AC waterproof connector)	EN 60998-1 EN 60998-2-1 EN 60598-1 EN 60598-2-3	TÜV SÜD B 16 09 87842 003 Tested with appliance
Terminal block for input/output of LED driver for models except 057 and 057S series models	B	Foshan Ojun	OJ-863	450V; T110; 0,5-2,5mm ²	EN 60998-1 EN 60998-2-1	Dekra ENEC 2196743.01
Bifurcate terminal for 066 series models	B	LI LU TONG	LLT-M12	With 2 or 3 or 4 splitter	EN 60598-1 EN 60598-2-3	Tested with appliance
-Plastic enclosure	B	LI LU TONG	PA66	--	EN 60598-1 EN 60598-2-3	Tested with appliance
-PCB	B	SHENZHEN JIA LI CHUANG TECHNOLOGY DEVELOPMENT	JLC-1; JLC-2	130°C; V-0	--	UL E479892
- Input cord	B	Guangdong Wasung Cable	H05RN-F	2x1,0mm ²	DIN EN 50525-2-21	VDE 40047092
Bifurcate terminal for models with more than one LED module except 066 series models	B	LI LU TONG	LJT connector	--	EN 60598-1 EN 60598-2-3	Tested with appliance
- Waterproof connector of bifurcate terminal	B	LI LU TONG	LJT connector	--	EN 60598-1 EN 60598-2-3	Tested with appliance
Input cord of bifurcate terminal	B	Wuxi Zhonghui Wire & Cable	H05RN-F	2*1,0mm ²	EN 50525-2-21	VDE 40020334

IEC 60598-2-3						
Clause	Requirement + Test			Result - Remark		Verdict
Input wire of LED module for 067, 069, 069S series models	B	DONGGUAN CHENG XING ELECTRONIC	1007; 1015	Min. 300VAC; Min. 20AWG; Min. 80°C	--	UL E249743
Input cord of LED module for other models	B	Wuxi Zhonghui Wire & Cable	H05RN-F	2*0,75mm ²	EN 50525-2-21	VDE 40020334
SMT connector on LED module (optional)	B	Shenzhen Boda	2062	--	EN 60598-1 EN 60598-2-3	Tested with appliance
LED	B	LUMILEDS	LUXEON 3030 2D LINE	I _F :120mA; V _F :5,8-6,6V; CCT: 3000-6500K; View angle: 116°	IEC TR 62778	Tested with appliance
LED	B	LUMILEDS	LUXEON 5050	I _F :240mA; V _F : 23,5-26,5V; CCT:2700-6500K; View angle: 116°	IEC TR 62778	Tested with appliance
LED module PCB	B	SHENZHEN NAILIDE TECHNOLOGY	ULNLD01	Metal base; V-0; 120°	--	UL E479351
Plastic cover and lens	B	ARKEMA	V040	Min. 1,5mm; HB	--	UL E228285
Glass cover	B	DONGGUAN CSG SOLAR GLASS	Dongguan Delangfei	Thickness: min. 6mm; 160°C; Δt: 140°C	EN 60598-1 EN 60598-2-3	Tested with appliance
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039. The codes above have the following meaning: A - The component is replaceable with another one, also certified, with equivalent characteristics B - The component is replaceable if authorised by the test house C - Integrated component tested together with the appliance D - Alternative component						

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2	TABLE: Thermal tests of Section 12			P			
	Type reference	PL-LD-057-250W	¾				
	Lamp used.....	LED	¾				
	Lamp control gear used	ELG-240-36A	¾				
	Mounting position of luminaire.....	As in normal use	¾				
	Supply wattage (W)	250,0W (240V)	¾				
	Supply current (A).....	1,068A (240V)	¾				
	Temperatures in test 1 - 4 below are corrected for ta (°C)	45°C	¾				
	- abnormal operating mode	Short circuit output of LED driver, LED driver shut down immediately, the temperature was less than temperature under normal operation, so no temperature was recorded.	¾				
1.12 (12.4)	- test 1: rated voltage	240V	¾				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	1,06x240V=254,4V	¾				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	--	¾				
	Through wiring or looping-in wiring loaded by a current of A during the test	--	¾				
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	1,1x240V=264V	¾				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Supply cord (clamped position)	45	--	63,1	--	75	--	--
AC waterproof connector	45	--	58,7	--	Ref.	--	--
Input cord of LED driver	45	--	69,3	--	90	--	--
tc of LED driver	45	83,0	--	--	90	--	--
Output cord of LED driver	45	--	76,8	--	90	--	--
DC waterproof connector	45	--	70,4	--	Ref.	--	--
Bifurcate terminal	45	--	64,2	--	Ref.	--	--
Waterproof connector of bifurcate terminal	45	--	73,4	--	Ref.	--	--
Input cord of LED module	45	--	85,3	--	90	--	--

IEC 60598-2-3							
Clause	Requirement + Test			Result - Remark			Verdict
LED module PCB	45	--	88,8	--	120	--	--
Plastic cover	45	--	78,2	--	Ref.	--	--
Metal enclosure near LED (outside)	45	--	70,3	--	Ref.	--	--
Metal enclosure near LED driver (outside)	45	--	53,5	--	Ref.	--	--
Mounting surface	45	--	49,4	--	90	--	--
Supplementary information: max. values were recorded.							

ANNEX 2	TABLE: Thermal tests of Section 12			P			
	Type reference	PL-LD-068S-250W	¾				
	Lamp used.....	LED	¾				
	Lamp control gear used	ELG-240-48A	¾				
	Mounting position of luminaire.....	As in normal use	¾				
	Supply wattage (W)	251,4W (240V)	¾				
	Supply current (A).....	1,075A (240V)	¾				
	Temperatures in test 1 - 4 below are corrected for ta (°C)	45°C	¾				
	- abnormal operating mode	Short circuit output of LED driver, LED driver shut down immediately, the temperature was less than temperature under normal operation, so no temperature was recorded.	¾				
1.12 (12.4)	- test 1: rated voltage	240V	¾				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	1,06x240V=254,4V	¾				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	--	¾				
	Through wiring or looping-in wiring loaded by a current of A during the test	--	¾				
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	1,1x240V=264V	¾				
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Supply cord (clamped position)	45	--	50,5	--	75	--	--
Terminal block (input of LED driver)	45	--	55,3	--	110	--	--

IEC 60598-2-3							
Clause	Requirement + Test			Result - Remark			Verdict
Input cord of LED driver	45	--	54,9	--	90	--	--
tc of LED driver	45	79,8	--	--	90	--	--
Terminal block (output of LED driver)	45	--	64,4	--	110	--	--
Bifurcate terminal	45	--	64,8	--	Ref.	--	--
Waterproof connector of bifurcate terminal	45	--	69,1	--	Ref.	--	--
Input cord of LED module	45	--	75,0	--	90	--	--
LED module PCB	45	--	77,4	--	120	--	--
Plastic cover	45	--	73,5	--	Ref.	--	--
Metal enclosure near LED (outside)	45	--	61,3	--	Ref.	--	--
Metal enclosure near LED driver (outside)	45	--	51,7	--	Ref.	--	--
Mounting surface	45	--	45,2	--	90	--	--
Supplementary information: max. values were recorded.							

ANNEX 2	TABLE: Thermal tests of Section 12		P
	Type reference	PL-LD-069-250W	¾
	Lamp used.....	LED	¾
	Lamp control gear used	EUP-240S670SV	¾
	Mounting position of luminaire.....	As in normal use	¾
	Supply wattage (W)	242,1W (240V)	¾
	Supply current (A).....	1,064A (240V)	¾
	Temperatures in test 1 - 4 below are corrected for ta (°C)	45°C	¾
	- abnormal operating mode	Short circuit output of LED driver, LED driver shut down immediately, the temperature was less than temperature under normal operation, so no temperature was recorded.	¾
1.12 (12.4)	- test 1: rated voltage	240V	¾
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	1,06x240V=254,4V	¾
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	--	¾
	Through wiring or looping-in wiring loaded by a current of A during the test	--	¾

IEC 60598-2-3							
Clause	Requirement + Test				Result - Remark		Verdict
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current				1,1x240V=264V		¾
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Supply cord (clamped position)	45	--	55,2	--	75	--	--
Terminal block (input of LED driver)	45	--	61,5	--	110	--	--
Input cord of LED driver	45	--	50,5	--	90	--	--
tc of LED driver	45	80,2	--	--	90	--	--
Output cord of LED driver	45	--	64,9	--	90	--	--
Terminal block (output of LED driver)	45	--	66,9	--	110	--	--
Input wire of LED module	45	--	57,7	--	80	--	--
SMT connector on LED	45	--	57,9	--	Ref.	--	--
LED module PCB	45	--	65,2	--	120	--	--
Lens	45	--	70,5	--	Ref.	--	--
Glass cover	45	--	60,3	--	160	--	--
Metal enclosure near LED (outside)	45	--	56,7	--	Ref.	--	--
Metal enclosure near LED driver (outside)	45	--	51,9	--	90	--	--
Mounting surface	45	--	46,3	--	90	--	--
Supplementary information: max. values were recorded.							

ANNEX 2	TABLE: Thermal tests of Section 12		P
	Type reference	1). PL-LD-061-200W; 2). PL-LD-068-150W; 3). PL-LD-062-150W; 4). PL-LD-065-200W	¾
	Lamp used.....	LED	¾
	Lamp control gear used	1). EUP-200S560SV; 2). EUP-150S560SV; 3). ELG-150-48A; 4). ELG-200-48A	¾
	Mounting position of luminaire.....	As in normal use	¾

IEC 60598-2-3							
Clause	Requirement + Test			Result - Remark			Verdict
	Supply wattage (W):			1). 193,9W (240V); 2). 153,0W (240V); 3). 150,6W (240V); 4). 198,2W (240V)			¾
	Supply current (A).....:			1). 0,833A (240V); 2). 0,683A (240V); 3). 0,660A (240V); 4). 0,857A (240V)			¾
	Temperatures in test 1 - 4 below are corrected for ta (°C):			45°C			¾
	- abnormal operating mode.....:			Short circuit output of LED driver, LED driver shut down immediately, the temperature was less than temperature under normal operation, so no temperature was recorded.			¾
1.12 (12.4)	- test 1: rated voltage:			240V			¾
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current:						¾
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage:			--			¾
	Through wiring or looping-in wiring loaded by a current of A during the test:			--			¾
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current:			1,1x240V=264V			¾
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
1). tc of LED driver	45	80,8	--	--	90	--	--
2). tc of LED driver	45	85,6	--	--	90	--	--
3). tc of LED driver	45	85,8	--	--	90	--	--
4). tc of LED driver	45	69,6	--	--	90	--	--
Supplementary information: max. values were recorded.							

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 2	TABLE: Thermal tests of Section 12		P
	Type reference	1). PL-LD-067-40W; 2). PL-LD-067-60W; 3). PL-LD-067-80W; 4). PL-LD-067-80W; 5). PL-LD-067-100W; 6). PL-LD-067-100W	¾
	Lamp used.....	LED	¾
	Lamp control gear used	1). EUC-035S070SVM; 2). EUC-060S105SVM; 3). EUP-075S280SV; 4). ELG-75-48A; 5). EUP-096S-210SV; 6). ELG-100-48A	¾
	Mounting position of luminaire.....	As in normal use	¾
	Supply wattage (W)	1). 35,0W (240V); 2). 55,9W (240V); 3). 81,9W (240V); 4). 78,5W (240V); 5). 99,6W (240V); 6). 102,0W (240V);	¾
	Supply current (A).....	1). 0,153A (240V); 2). 0,240A (240V); 3). 0,349A (240V); 4). 0,372A (240V); 5). 0,444A (240V); 6). 0,446A (240V);	¾
	Temperatures in test 1 - 4 below are corrected for ta (°C)	45°C	¾
	- abnormal operating mode	Short circuit output of LED driver, LED driver shut down immediately, the temperature was less than temperature under normal operation, so no temperature was recorded.	¾
1.12 (12.4)	- test 1: rated voltage	240V	¾
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current		¾
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	--	¾
	Through wiring or looping-in wiring loaded by a current of A during the test	--	¾
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current	1,1x240V=264V	¾

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
1). tc of LED driver	45	67,8	--	--	90	--	--
2). tc of LED driver	45	75,0	--	--	90	--	--
3). tc of LED driver	45	73,6	--	--	90	--	--
4). tc of LED driver	45	72,3	--	--	85	--	--
5). tc of LED driver	45	80,6	--	--	90	--	--
6). tc of LED driver	45	84,7	--	--	90	--	--
Supplementary information: max. values were recorded.							

ANNEX 2	TABLE: Thermal tests of Section 12		P
	Type reference	1). PL-LD-061-200W; 2). PL-LD-067-100W; 3). PL-LD-067-60W	¾
	Lamp used.....	LED	¾
	Lamp control gear used	1). HT-HLB-200H-48; 2). HT-HLB-100H-48; 3). HT-HLB-60H-48	¾
	Mounting position of luminaire.....	As in normal use	¾
	Supply wattage (W)	1). 217,1W (240V); 2). 116,2W (240V); 3). 64,4W (240V);	¾
	Supply current (A).....	1). 0,932A (240V); 2). 0,564A (240V); 3). 0,349A (240V);	¾
	Temperatures in test 1 - 4 below are corrected for ta (°C)	45°C	¾
	- abnormal operating mode	Short circuit output of LED driver, LED driver shut down immediately, the temperature was less than temperature under normal operation, so no temperature was recorded.	¾
1.12 (12.4)	- test 1: rated voltage	240V	¾
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current		¾
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	--	¾

IEC 60598-2-3							
Clause	Requirement + Test				Result - Remark		Verdict
	Through wiring or looping-in wiring loaded by a current of A during the test:				--		¾
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current				1,1x240V=264V		¾
Temperature measurements (°C)							
Part	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
1). tc of LED driver	45	83,5	--	--	90	--	--
2). tc of LED driver	45	85,2	--	--	90	--	--
3). tc of LED driver	45	76,3	--	--	90	--	--
Supplementary information: max. values were recorded.							

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 3	Screw terminals (part of the luminaire)		N/A
(14)	SCREW TERMINALS		3/4
(14.2)	Type of terminal.....:		3/4
	Rated current (A).....:		3/4
(14.3.2.1)	One or more conductors		N/A
(14.3.2.2)	Special preparation		N/A
(14.3.2.3)	Terminal size		N/A
	Cross-sectional area (mm²)		3/4
(14.3.3)	Conductor space (mm)		N/A
(14.4)	Mechanical tests		N/A
(14.4.1)	Minimum distance		N/A
(14.4.2)	Cannot slip out		N/A
(14.4.3)	Special preparation		N/A
(14.4.4)	Nominal diameter of thread (metric ISO thread)	M	N/A
	External wiring		N/A
	No soft metal		N/A
(14.4.5)	Corrosion		N/A
(14.4.6)	Nominal diameter of thread (mm).....:		N/A
	Torque (Nm)		N/A
(14.4.7)	Between metal surfaces		N/A
	Lug terminal		N/A
	Mantle terminal		N/A
	Pull test; pull (N)		N/A
(14.4.8)	Without undue damage		N/A

IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 4	Screwless terminals (part of the luminaire) (SMT terminal on LED module)		P
(15)	SCREWLESS TERMINALS		¾
(15.2)	Type of terminal.....:	Spring terminal	¾
	Rated current (A).....:	5,2A (Tested with appliance)	¾
(15.3.1)	Material		P
(15.3.2)	Clamping		P
(15.3.3)	Stop		P
(15.3.4)	Unprepared conductors		N/A
(15.3.5)	Pressure on insulating material		N/A
(15.3.6)	Clear connection method		P
(15.3.7)	Clamping independently		P
(15.3.8)	Fixed in position		P
(15.3.10)	Conductor size	Assembled by manufacturer	N/A
	Type of conductor		N/A
(15.5.1)	Terminals internal wiring		P
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples).....:	4N	P
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples)		N/A
	Insertion force not exceeding 50 N		N/A
(15.5.1.2)	Permanent connections: pull-off test (20 N)		N/A
(15.5.2)	Electrical tests		P
	Voltage drop (mV) after 1 h (4 samples).....:	1#: 8,2; 2#: 8,2; 3#: 8,5; 4#: 8,3	P
	Voltage drop of two inseparable joints		N/A
	Number of cycles:		¾
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)	1#: 8,9; 2#: 8,8; 3#: 8,9; 4#: 8,9	P
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples)		N/A
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples).....:	1#: 9,5; 2#: 9,6; 3#: 9,6; 4#: 9,6	P
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples).....:		N/A
(15.6)	Terminals external wiring		N/A
	Terminal size and rating		N/A
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N)		N/A

IEC 60598-2-3										
Clause	Requirement + Test								Result - Remark	Verdict
	Pull test pin or tab terminals (4 samples); pull (N)									N/A
(15.6.3.1) (15.6.3.2)	TABLE: Contact resistance test / Heating tests									N/A
	Voltage drop (mV) after 1 h									¾
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)	--	--	--	--	--	--	--	--	--	--
	Voltage drop of two inseparable joints									N/A
	Voltage drop after 10th alt. 25th cycle									N/A
	Max. allowed voltage drop (mV)..... :								--	¾
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)	--	--	--	--	--	--	--	--	--	--
	Voltage drop after 50th alt. 100th cycle									N/A
	Max. allowed voltage drop (mV)..... :								--	¾
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)	--	--	--	--	--	--	--	--	--	--
	Continued ageing: voltage drop after 10th alt. 25th cycle									N/A
	Max. allowed voltage drop (mV)..... :								--	¾
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)	--	--	--	--	--	--	--	--	--	--
	Continued ageing: voltage drop after 50th alt. 100th cycle									N/A
	Max. allowed voltage drop (mV)..... :								--	¾
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)	--	--	--	--	--	--	--	--	--	--
Supplementary information: --										

Attachment No. 1

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IEC60598_2_3L ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60598-2-3 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Luminaires Part 2: Particular requirements Section 3: Luminaires for road and street lighting			
Differences according.....: EN 60598-2-3:2003 +A1:2011 used in conjunction with EN 60598-1:2015+A1:2018			
Annex Form No.: EU_GD_IEC60598_2_3L			
Annex Form Originator.....: Intertek Semko AB			
Master Annex Form.....: 2018-12-07			
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	CENELEC COMMON MODIFICATIONS (EN)		¾
3.6 (4)	CONSTRUCTION		P
3.6 (4.11.6)	Electro-mechanical contact systems		P
3.10 (5)	EXTERNAL AND INTERNAL WIRING		P
3.10 (5.2.2)	Cables equal to EN 50525		P
	Replace table 5.1 – Supply cord		P
3.12 (12)	ENDURANCE TESTS AND THERMAL TESTS		P
3.12 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		P

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		¾
(3.3)	DK: power supply cords of class I luminaires with label		N/A
(4.5.1)	DK: socket-outlets		N/A
(5.2.1)	CY, DK, FI, GB: type of plug		N/A

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		¾
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A
	FR: Safety requirements for high buildings (Decree of 30 December 2011 on safety regulations for the construction of high-rise buildings and their protection against fire and panic risks; Section VIII; Article GH 48, Lighting) Glow-wire test for outer parts of luminaires:		N/A
	- 850°C for luminaires in stairways and horizontal travel paths		N/A
	- 650°C for indoor luminaires		N/A



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IEC60598_2_3L ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	GB: Requirements according to United Kingdom Building Regulation		N/A

Attachment No. 2

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Report No.: 64.142.18.50069.01

EN 62031			
Clause	Requirement + Test	Result - Remark	Verdict

TEST REPORT EN 62031 LED modules for general lighting – Safety specifications			
--	--	--	--

	GENERAL REQUIREMENTS		¾
4.4	Integral modules tested assembled in the luminaire		P
4.5	Independent modules complies with requirements in IEC 60598-1		N/A

5	GENERAL TEST REQUIREMENTS		¾
5.5	SELV-operated LED modules comply with Annex I of IEC 61347-2-13	(see Annex 1)	N/A
	General conditions for tests in Annex A	(see Annex A)	P

6	CLASSIFICATION		¾
	Built-in module	Yes ☐ No ☒	¾
	Independent module.....	Yes ☐ No ☒	¾
	Integral module	Yes ☒ No ☐	¾
	For Integral module; Note to 1.2.1 in IEC 60598-1 applies.		¾

7	MARKING		N/A
	Requirements not applicable to the evaluated product.		¾

8	TERMINALS		N/A
	Requirements not applicable to the evaluated product.		¾

9 (9)	PROVISION FOR PROTECTIVE EARTHING		N/A
	Requirements not applicable to the evaluated product.		¾

10 (10)	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS		¾
	Requirements not applicable to the evaluated product.		N/A

11 (11)	MOISTURE RESISTANCE AND INSULATION		¾
	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (MW):		P
	For basic insulation ³ 2 MW	100MW	P

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EN 62031			
Clause	Requirement + Test	Result - Remark	Verdict
	For double or reinforced insulation ³ 4 MW.....:		N/A
	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1		N/A

12 (12)	ELECTRIC STRENGTH		¾
	Immediately after clause 11 electric strength test for 1 min		P
	Basic insulation for SELV, test voltage 500 V		P
	Working voltage ≤ 50 V, test voltage 500 V		N/A
	Working voltage > 50 V ≤ 1000 V, test voltage (V):		N/A
	Basic insulation, 2U + 1000 V		N/A
	Supplementary insulation, 2U + 1000 V		N/A
	Double or reinforced insulation, 4U + 2000 V		N/A
	No flashover or breakdown		P
	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1		N/A

13 (14)	FAULT CONDITIONS		¾
- (14)	When operated under fault conditions the controlgear:		N/A
	- does not emit flames or molten material		N/A
	- does not produce flammable gases		N/A
	- protection against accidental contact not impaired		N/A
	Thermally protected controlgear does not exceed the marked temperature value		N/A
	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	N/A
- (14.1)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (except between live parts and accessible metal parts)	(see appended table)	N/A
	Creepage distances on printed boards less than specified in clause 16 in Part 1 provided with coating according to IEC 60664-3		N/A
- (14.2)	Short-circuit or interruption of semiconductor devices	(see appended table)	N/A
- (14.3)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	N/A
- (14.4)	Short-circuit across electrolytic capacitors	(see appended table)	N/A
- (14.5)	After the tests has been carried out on three samples:		N/A

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EN 62031			
Clause	Requirement + Test	Result - Remark	Verdict
	The insulation resistance ³ 1 MW :		N/A
	No flammable gases		N/A
	No accessible parts have become live		N/A
	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite		N/A
- (14.6)	Relevant fault condition tests with high-power supply		N/A
13.2	Overpower condition		P
	Module withstands overpower condition >15 min.		P
	Module with automatic protective device or power limiter, test performed 15 min. at limit.		N/A
	No fire, smoke or flammable gas is produced		P
	Molten material does not ignite tissue paper, spread below the module		P
15	CONSTRUCTION		$\frac{3}{4}$
	Wood, cotton, silk, paper and similar fibrous material not used as insulation		P
16 (16)	CREEPAGE DISTANCES AND CLEARANCES		$\frac{3}{4}$
- (16)	Creepage and distances and clearances in compliance with IEC 61347-1	(see appended table)	N/A
	Insulating lining of metallic enclosures		N/A
	Basic insulation on printed boards tested according to clause 14		N/A
	Distances subjected to both sinusoidal voltage as non-sinusoidal pulses not less than value in Table 16		N/A
	Creepage distances not less than minimum clearance		N/A
16 (-)	Conductive accessible parts in compliance with applicable parts of IEC 60598-1	See table 3.7 (11.2) of IEC 60598-2-3	P
17 (17)	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		$\frac{3}{4}$
	Cl. 17 refer to Cl. 17 of IEC 61347-1 which refer to Cl. 4.11 and 4.12 of IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)		$\frac{3}{4}$
(4.11)	Electrical connections		P
(4.11.1)	Contact pressure		P
(4.11.2)	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A

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EN 62031			
Clause	Requirement + Test	Result - Remark	Verdict

(4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
(4.11.4)	Material of current-carrying parts		P
(4.11.5)	No contact to wood or mounting surface		P
(4.11.6)	Electro-mechanical contact systems		N/A
(4.12)	Mechanical connections and glands		N/A
(4.12.1)	Screws not made of soft metal		N/A
	Screws of insulating material		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A
(4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
(4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm).....:		N/A
	- lampholder; torque (Nm).....:		N/A
	- push-button switches; torque 0,8 Nm.....:		N/A
(4.12.5)	Screwed glands; force (Nm).....:		N/A

18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING		$\frac{3}{4}$
- (18.1)	Ball-pressure test	See Test Table 18 (18.1)	N/A
- (18.3)	Glow-wire test (650°C)	See Test Table 18 (18.3)	N/A
- (18.4)	Needle-flame test (10 s)	See Test Table 18 (18.4)	N/A
- (18.5)	Proof tracking test	See Test Table 18 (18.5)	N/A

19 (19)	RESISTANCE TO CORROSION		$\frac{3}{4}$
	- test according 4.18.1 of IEC 60598-1		N/A
	- adequate varnish on the outer surface		N/A

20	INFORMATION FOR LUMINAIRE DESIGN		$\frac{3}{4}$
	Information in Annex D (informative)		$\frac{3}{4}$

21	HEAT MANAGEMENT		$\frac{3}{4}$
21.1	General		N/A
	Exchangeability is safeguarded by cap or base		N/A
21.2	Heat-conducting foil and paste		N/A

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EN 62031			
Clause	Requirement + Test	Result - Remark	Verdict
	Heat-conducting foil delivered with the module if necessary		N/A
22	PHOTOBIOLOGICAL SAFETY		¾
22.1	UV radiation		N/A
	Luminous radiation not exceed 2mW/klm		N/A
22.2	Blue light hazard		P
	Assessed according to IEC TR 62778	RG1	P
22.3	Infrared radiation		N/A
	Requirements for infrared radiation when required		N/A
A	ANNEX A - TESTS		¾
	All tests performed in accordance with the advice given in Annex H of IEC 61347-1, if applicable		P
ANNEX 1	SELV-operated LED modules		N/A
	Requirements not applicable to the evaluated product.		¾

Attachment No. 3

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IEC TR 62778			
Clause	Requirement + Test	Result - Remark	Verdict

TEST REPORT IEC TR 62778 Application of IEC 62471 for the assessment of blue light hazard to light sources and luminaires			
--	--	--	--

7	MEASUREMENT INFORMATION FLOW		P
7.1	Basic flow		P
	'Law of conservation of luminance' applied		P
	Use of only true luminance/radiance values		P
	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component		P
	In case E_{thr} value for RG2 was established the peak value was derived from angular light distribution		N/A
7.2	Conditions for the radiance measurement		P
	Standard condition applied (200mm distance, 0,011rad field of view)		P
	Non-standard condition applied		N/A
7.3	Special cases (I): Replacement by a lamp or LED module of another type		N/A
	Light source is a white light source		N/A
	Evaluation done based on highest luminance		N/A
	Evaluation done based on CCT value		N/A
7.4	Special cases (II): Arrays and clusters of primary light sources		N/A
	LED package is evaluated as: ☐ RG0 unlimited ☐ RG1 unlimited		N/A
	E_{thr} of LED package applies to array		N/A
8	RISK GROUP CLASSIFICATION		P
	Risk group achieved:		P
	-.. Risk Group 0 unlimited		N/A
	-.. Risk Group 1 unlimited		P
	- E_{thr} (lx) : Distance to reach RG1 (m) :		N/A

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IEC TR 62778			
Clause	Requirement + Test	Result - Remark	Verdict

TABLE: Spectroradiometric measurement				P
	Measurement performed on:	☐ LED package ☐ LED module ☐ Lamp ☒ Luminaire		
	Model number.....:	1). PL-LD-057-250W; 2). PL-LD-068S-250W		
	Test voltage (V).....:	240V		¾
	Test current (A).....:	1). 1,068A 2). 1,075A		¾
	Test frequency (Hz).....:	50Hz		¾
	Ambient, t (°C).....:	25°C		¾
	Measurement distance.....:	☒ 20 cm ☐ ... cm		¾
	Source size	☒ Non-small ☐ Small: mm		¾
	Field of view	☐ 100 mrad ☒ 11 mrad ☐ 1,7 mrad (for small sources)		¾
Item	Symbol	Units	Result	Remark
Correlated colour temperature	CCT	K	/	--
x/y colour coordinates			/	--
Blue light hazard radiance	L _B	W/(m ² •sr ¹)	1). 4150 2). 2940	RG1
Blue light hazard irradiance	E _B	W/m ²	/	--
Luminance	L	cd/m ²	1). 2,83x10 ⁶ 2). 1,95x10 ⁶	--
Illuminance	E	lx		--
Supplementary information: --				

Attachment No. 4

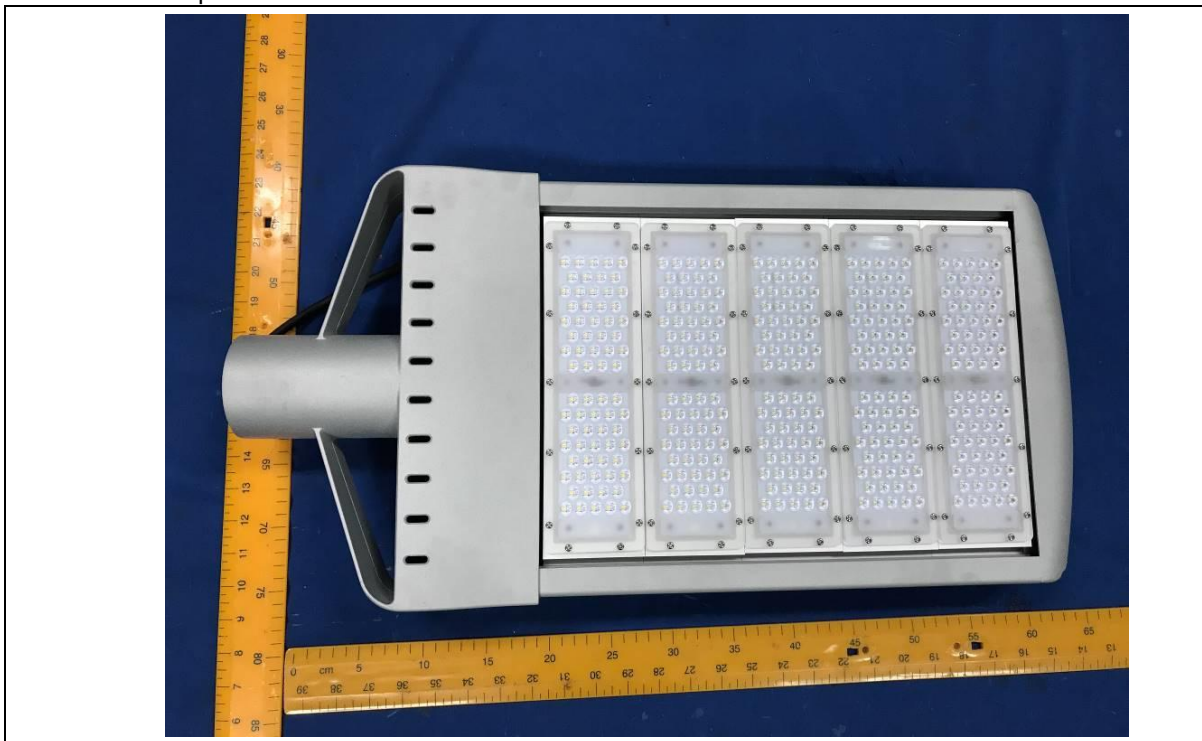
Photo documentation

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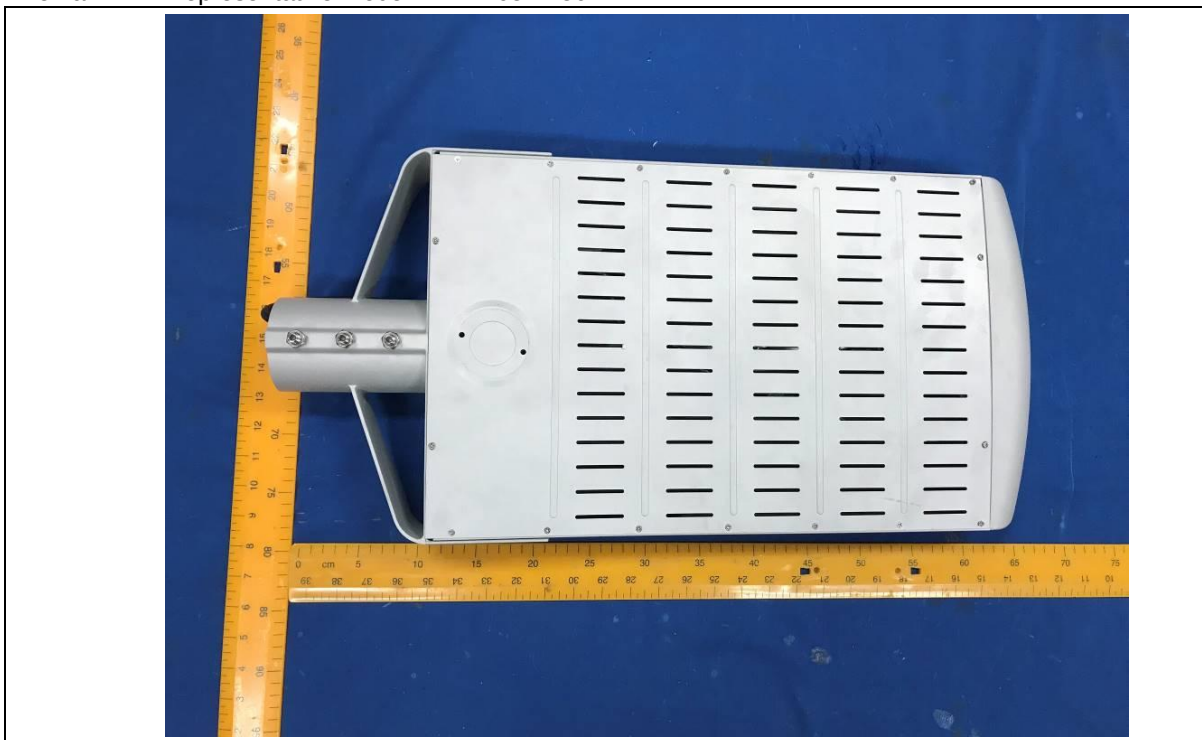
Details of: Outlook for 057 series models

Remark: Representative model PL-LD-057-250W



Details of: Outlook for 057 series models

Remark: Representative model PL-LD-057-250W



Attachment No. 4

Photo documentation

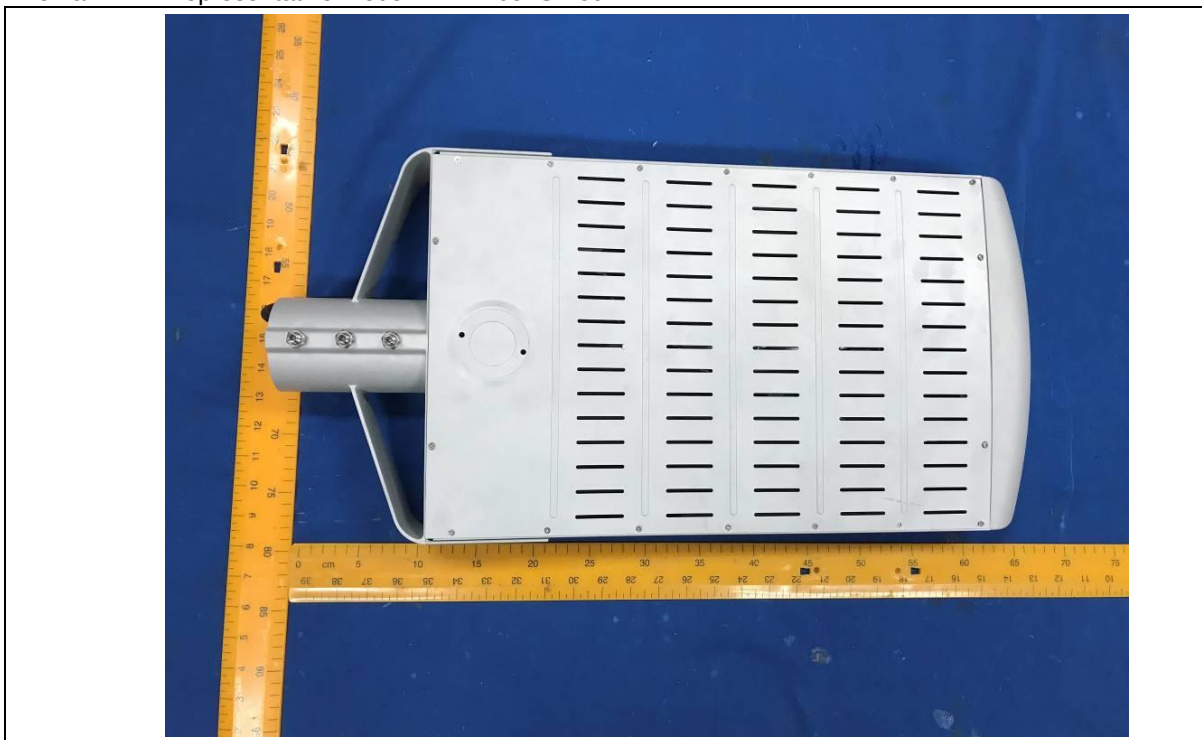
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Details of: Outlook for 057S series models
 Remark: Representative model PL-LD-057S-250W



Details of: Outlook for 057S series models
 Remark: Representative model PL-LD-057S-250W



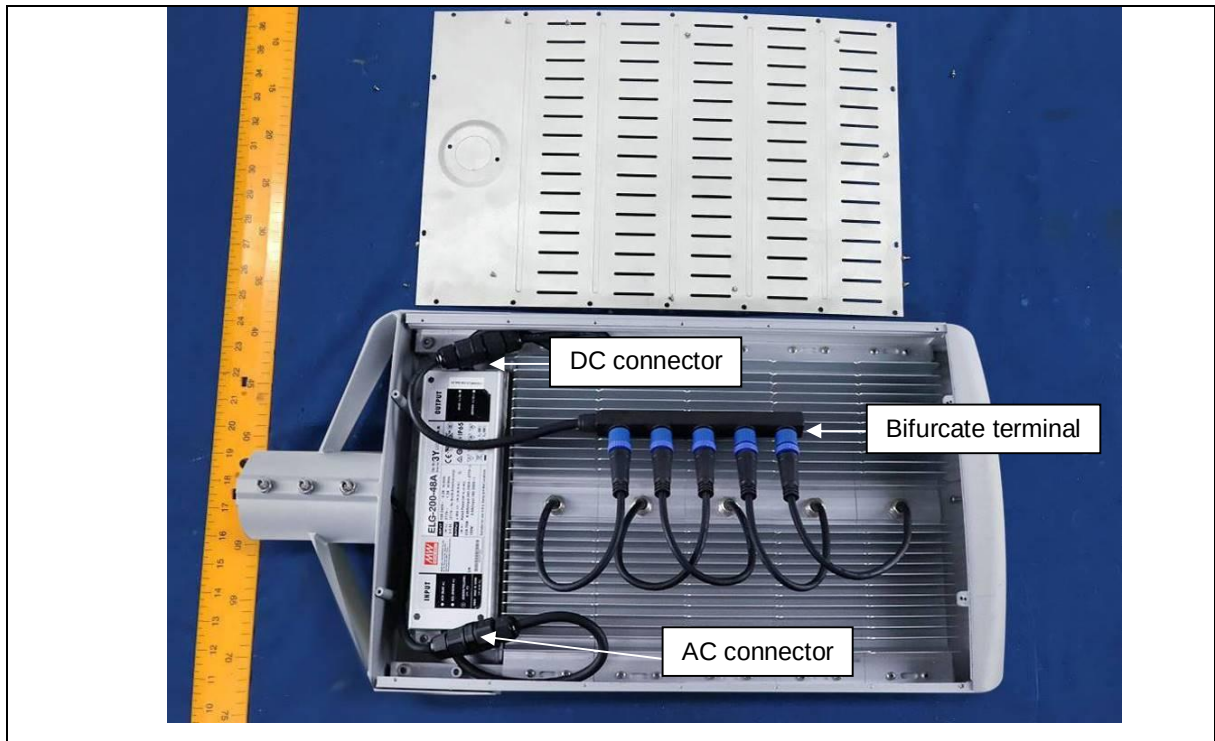
Attachment No. 4

Photo documentation

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Details of: Internal view for 057 and 057S series models



Details of: AC connector view for 057 and 057S series models



Attachment No. 4

Photo documentation

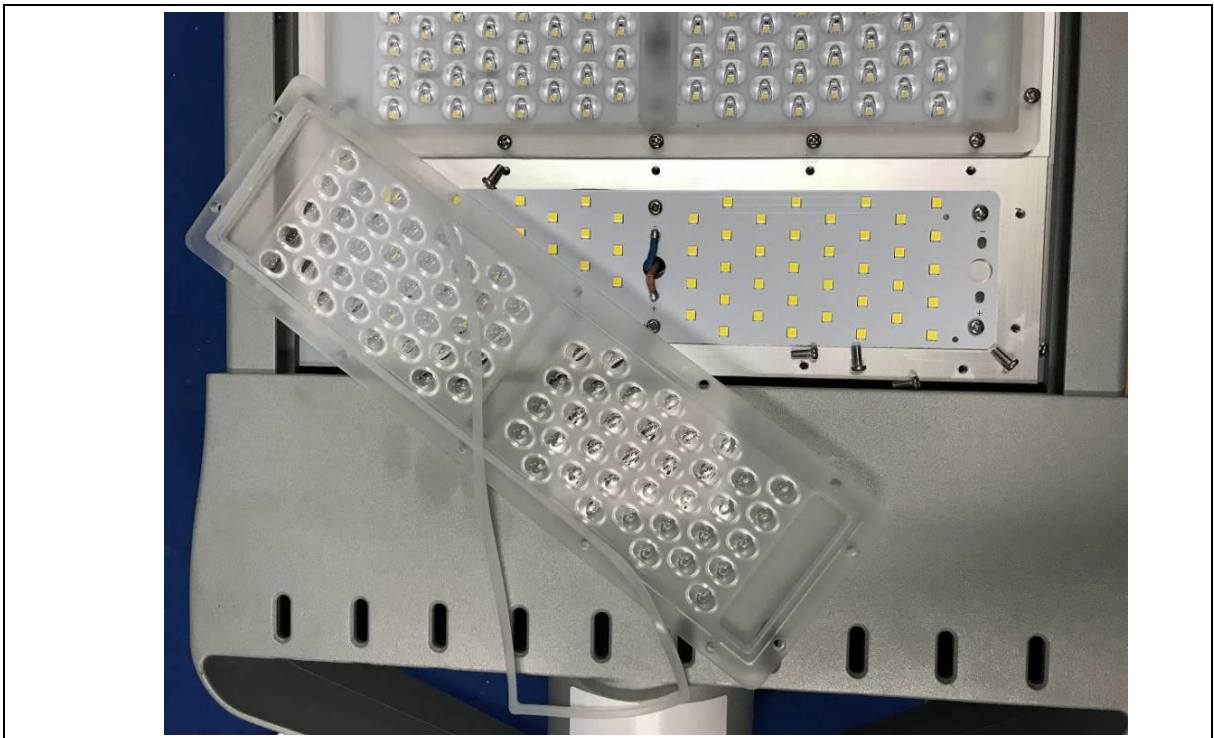
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Details of: AC connector internal view for 057 and 057S series models



Details of: LED module view for 057 series models



Attachment No. 4

Photo documentation

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Details of: LED module view for 057S series models



Details of: Outlook for 058 series models

Remark: Representative model PL-LD-058-250W



Attachment No. 4

Photo documentation

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Details of: Outlook for 058 series models

Remark: Representative model PL-LD-058-250W



Details of: Outlook for 058S series models

Remark: Representative model PL-LD-058S-250W



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Details of: Outlook for 058S series models
Remark: Representative model PL-LD-058S-250W



Details of: Detail view for 058 and 058S series models



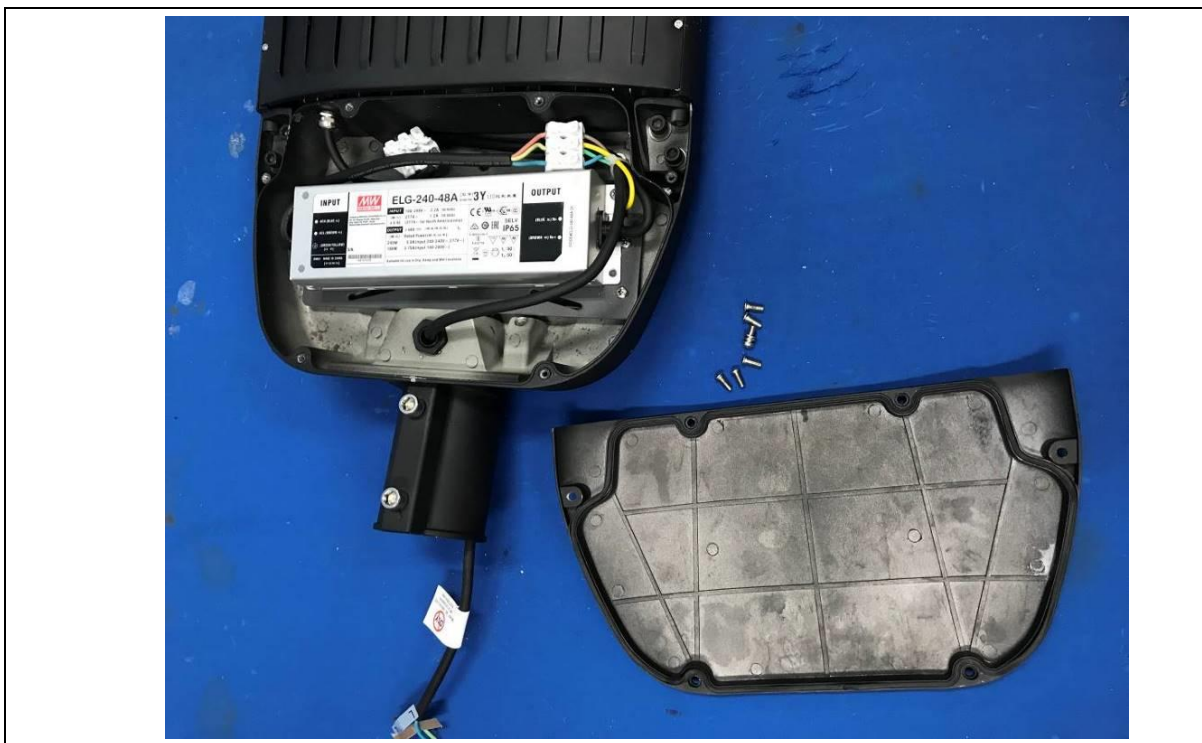
Attachment No. 4

Photo documentation

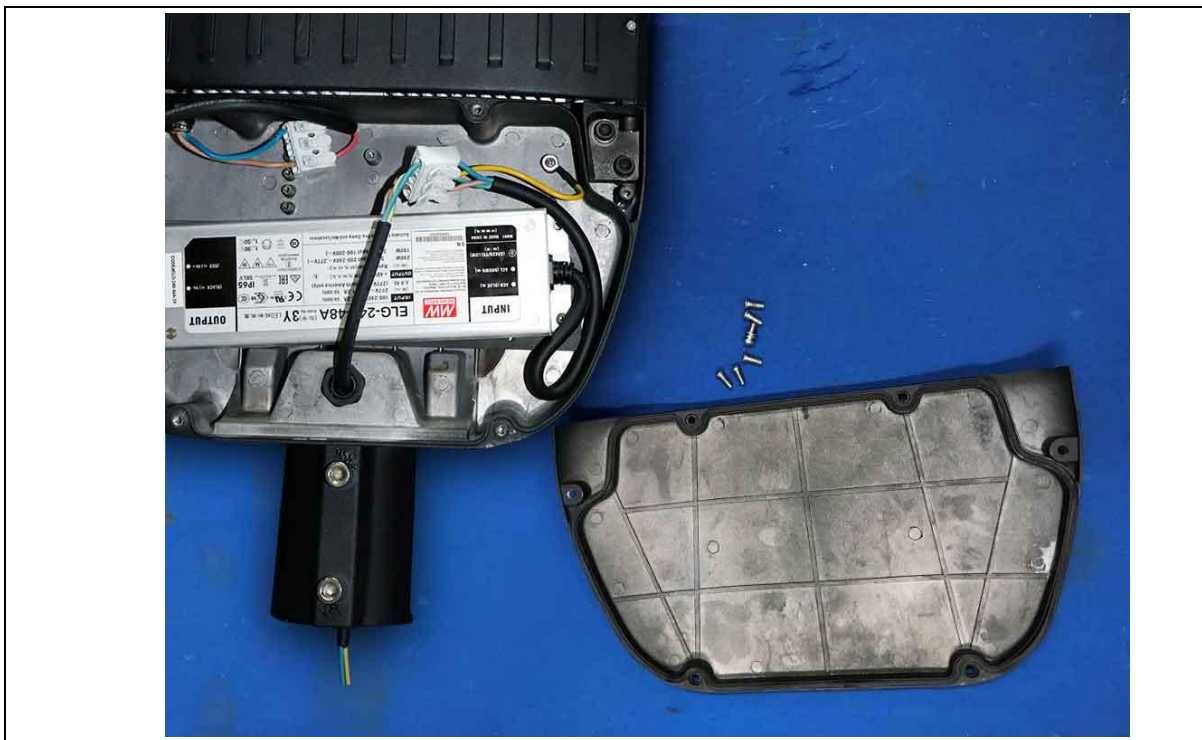
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Details of: Internal view for 058 and 058S series models



Details of: Earthing terminal view for 058 and 058S series models



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Details of: Internal view for 058 and 058S series models



Details of: LED module view for 058 series models



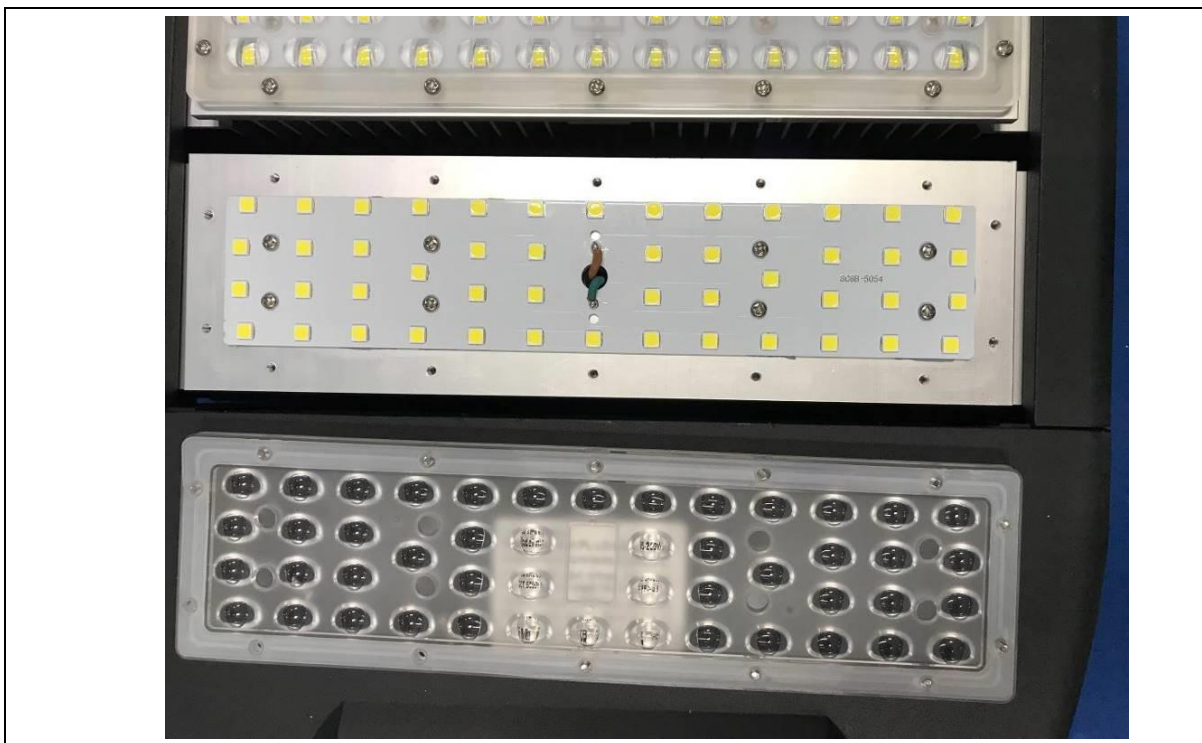
Attachment No. 4

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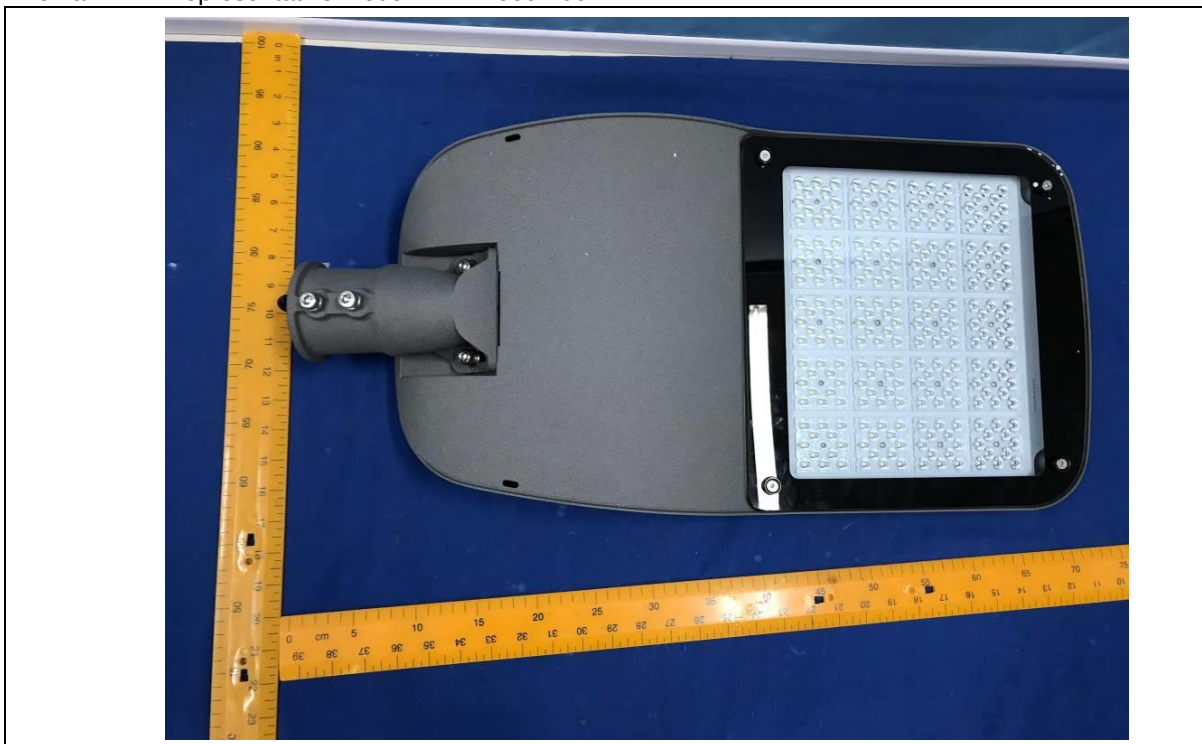
Report No.: 64.142.18.50069.01

Details of: LED module view for 058S series models



Details of: Outlook for 060 series models

Remark: Representative model PL-LD-060-200W



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Details of: Outlook for 060 series models

Remark: Representative model PL-LD-060-200W



Details of: Internal view for 060 series models

Representative model PL-LD-060-200W



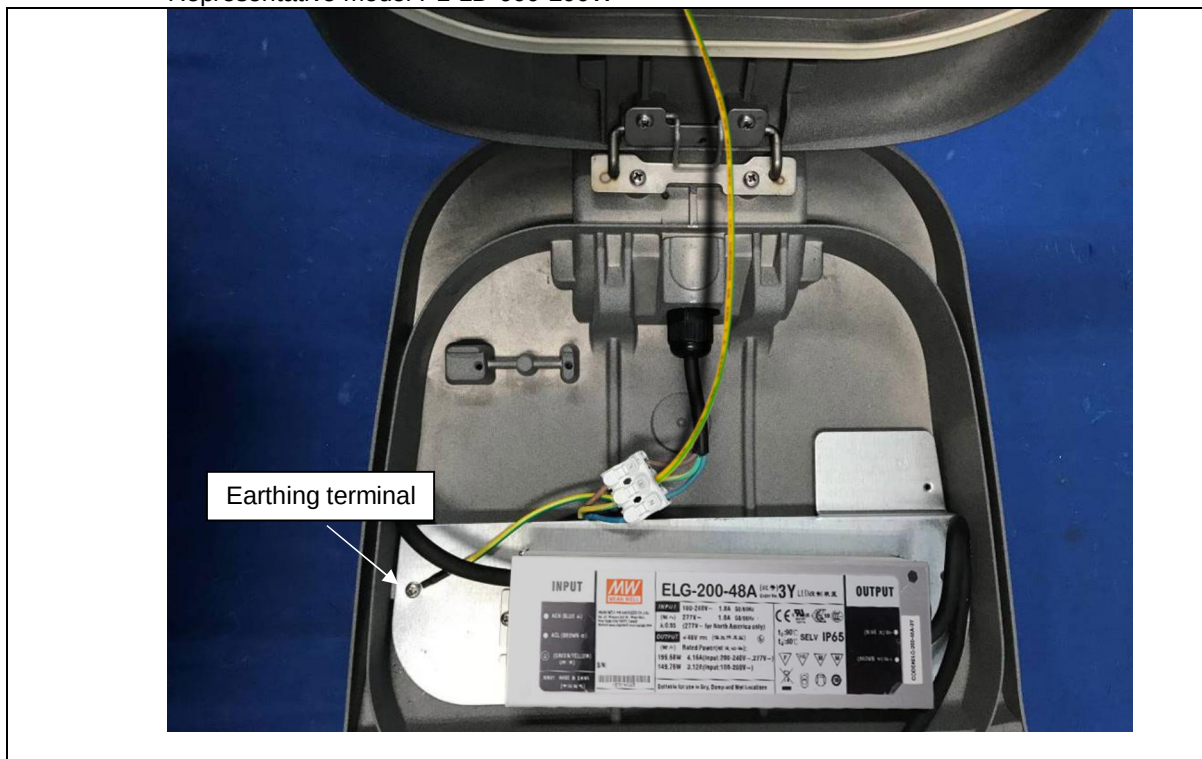
Attachment No. 4

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Details of: Internal view for 060 series models
 Remark: Representative model PL-LD-060-200W



Details of: LED module view for 060 series models
 Remark: Representative model PL-LD-060-200W



Attachment No. 4

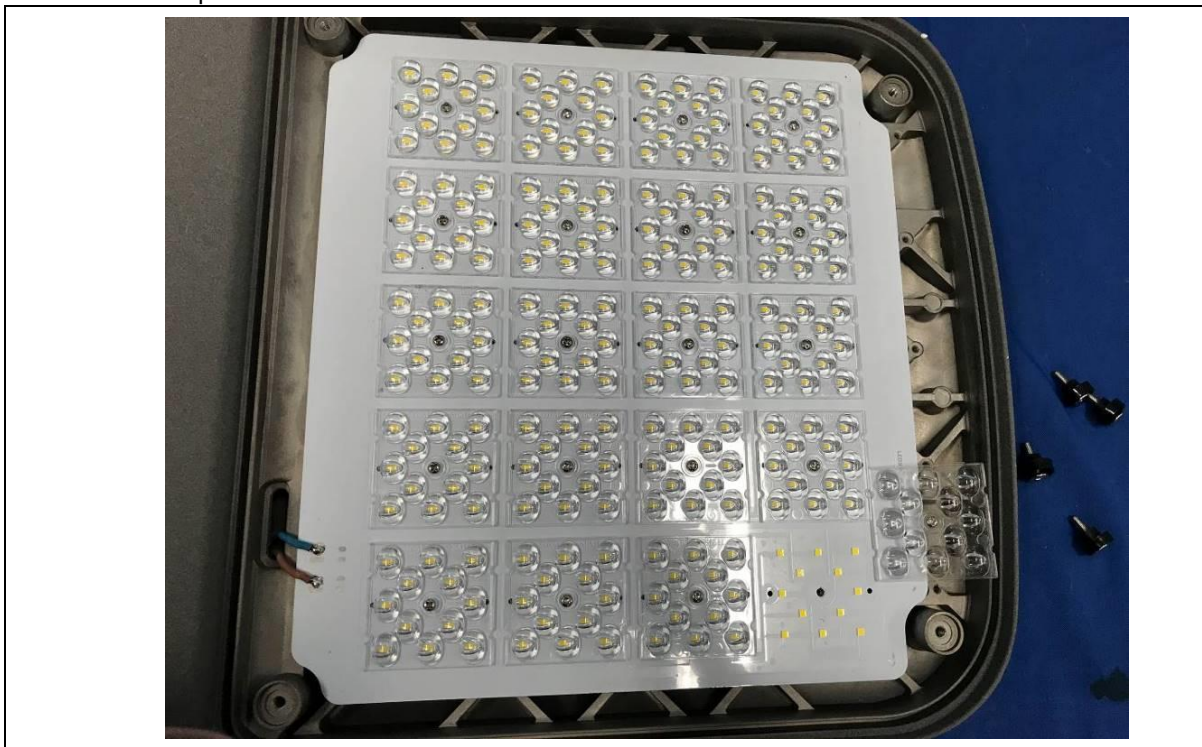
Photo documentation

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Details of: LED module view for 060 series models

Remark: Representative model PL-LD-060-200W



Details of: Outlook for 061 series models

Remark: Representative model PL-LD-061-200W



Attachment No. 4

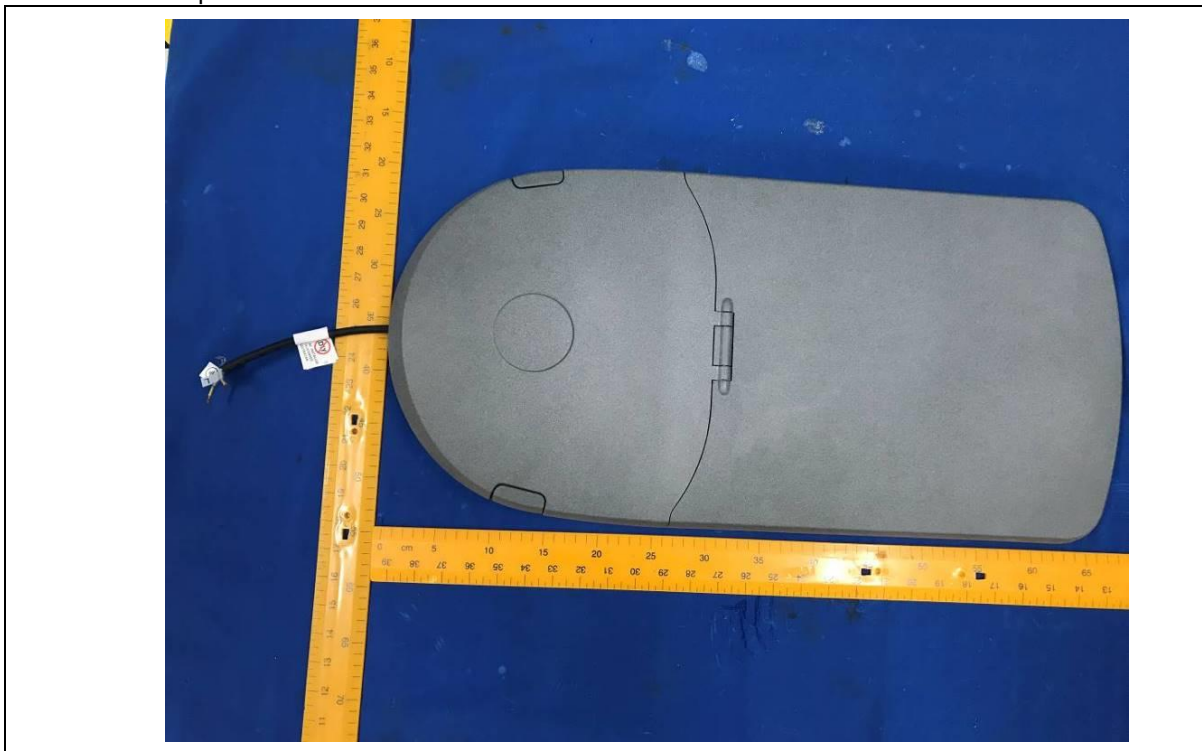
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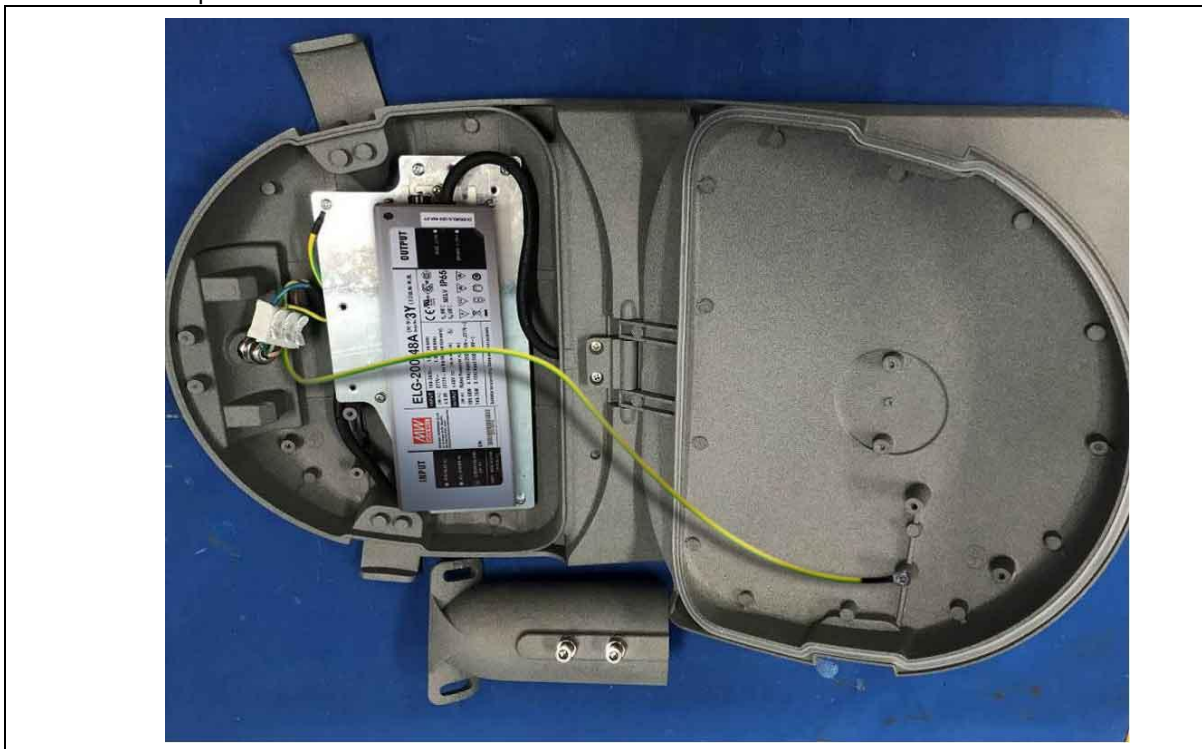
Details of: Outlook for 061 series models

Remark: Representative model PL-LD-061-200W



Details of: Internal view for 061 series models

Remark: Representative model PL-LD-061-200W



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Details of: Internal view for 061 series models

Remark: Representative model PL-LD-061-200W



Details of: LED module view for 061 series models

Remark: Representative model PL-LD-061-200W



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Details of: LED module view for 061 series models

Remark: Representative model PL-LD-061-200W



Details of: Outlook for 062 series models

Remark: Representative model PL-LD-062-150W



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Details of: Outlook for 062 series models

Remark: Representative model PL-LD-062-150W



Details of: Internal view for 062 series models



Attachment No. 4

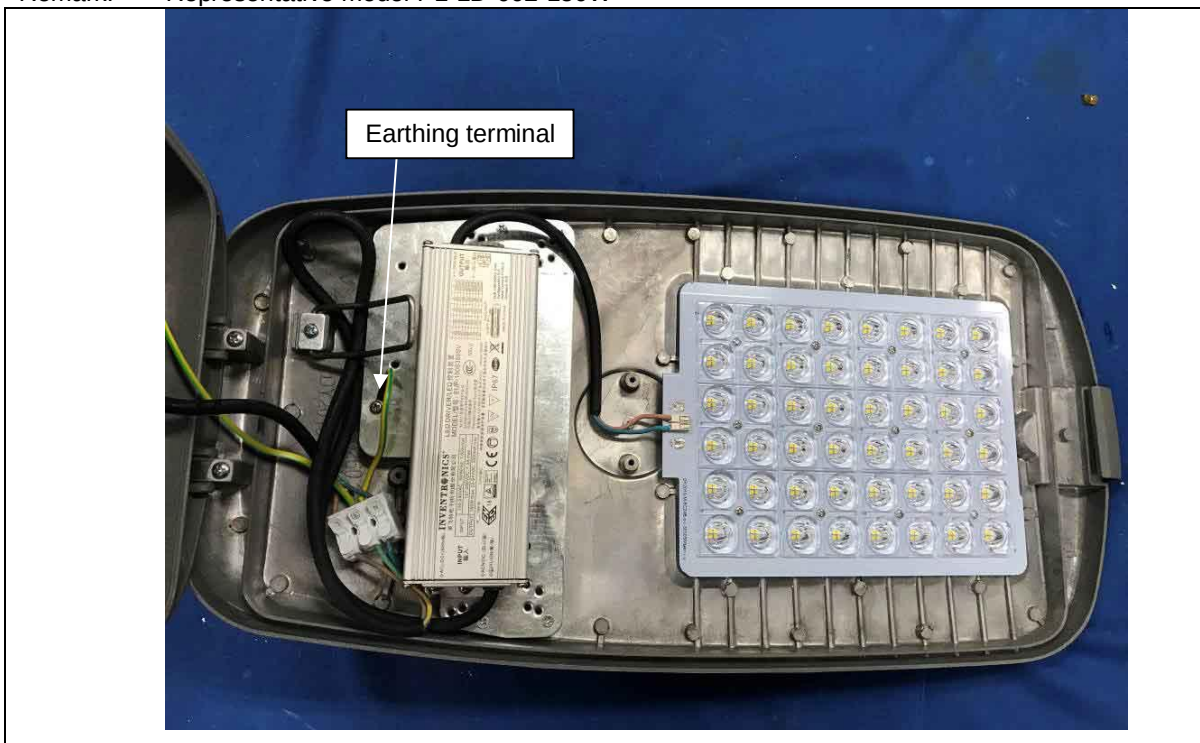
Photo documentation

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Details of: Internal view for 062 series models

Remark: Representative model PL-LD-062-150W



Details of: LED module view for 062 series models

Remark: Representative model PL-LD-062-150W



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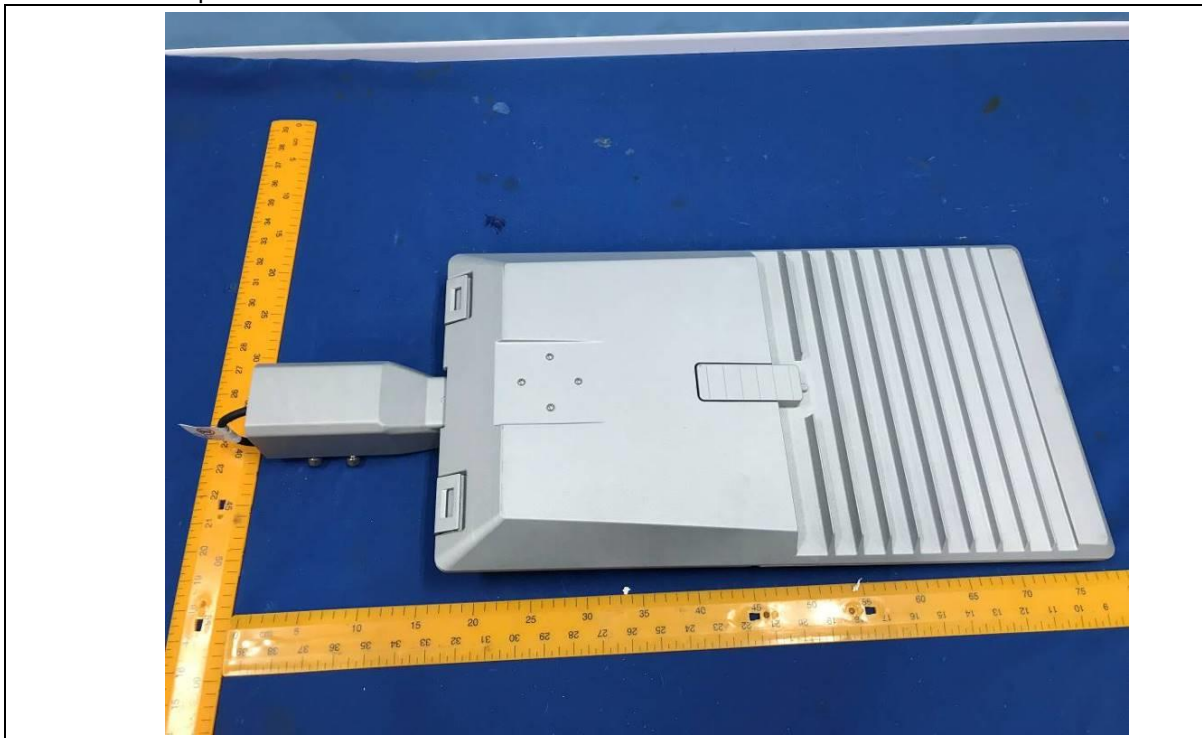
Details of: Outlook for 065 series models

Remark: Representative model PL-LD-065-200W



Details of: Outlook for 065 series models

Remark: Representative model PL-LD-065-200W



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Details of: Internal view for 065 series models

Remark: Representative model PL-LD-065-200W



Details of: LED module view for 065 series models

Remark: Representative model PL-LD-065-200W



Attachment No. 4

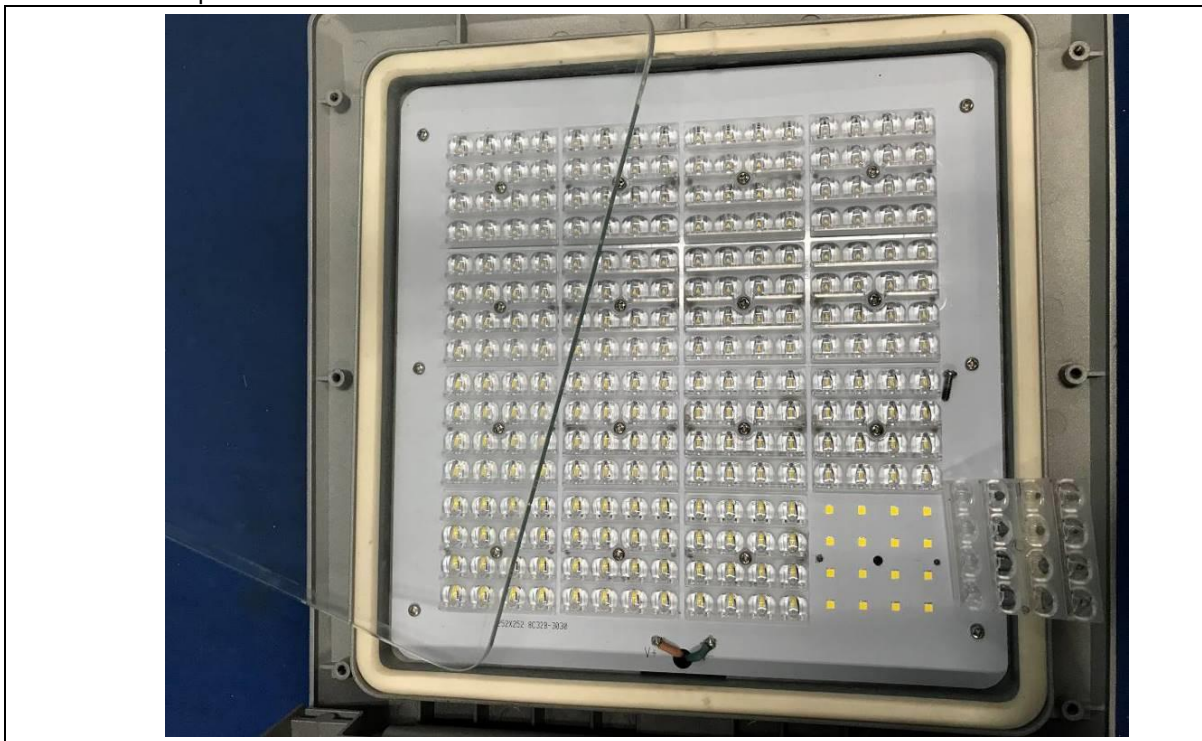
Photo documentation

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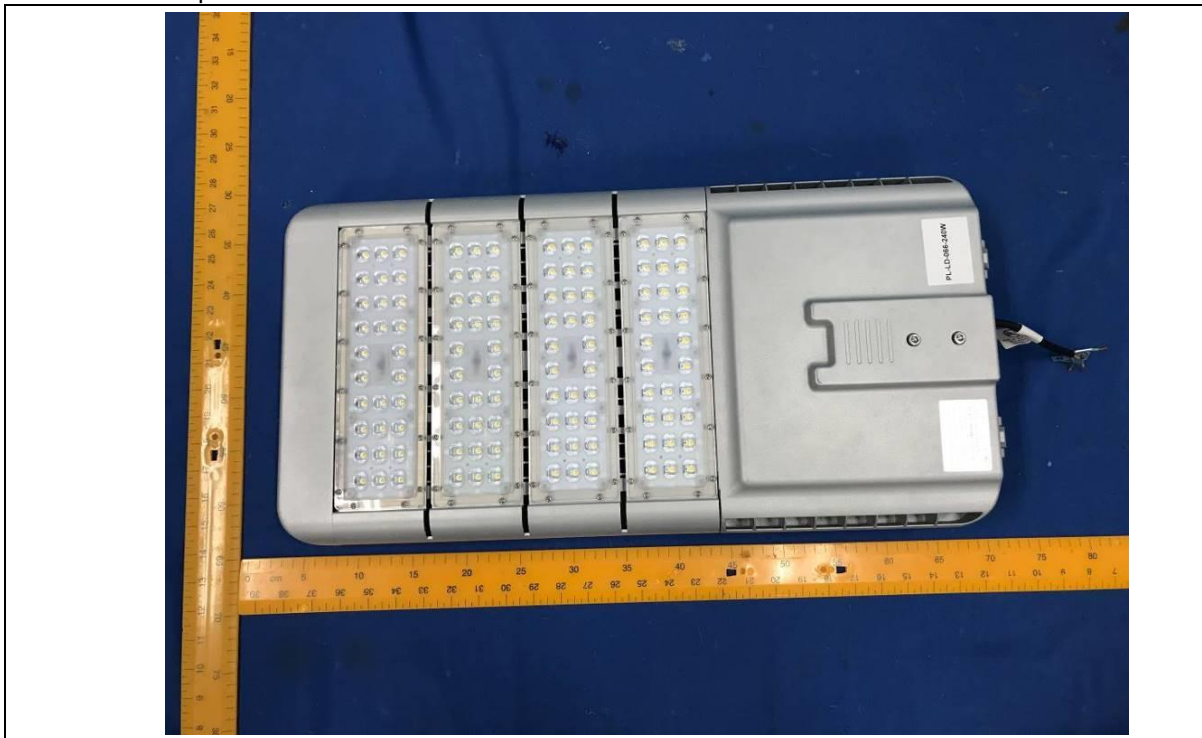
Details of: LED module view for 065 series models

Remark: Representative model PL-LD-065-200W



Details of: Outlook for 066 series models

Remark: Representative model PL-LD-066-240W



Attachment No. 4

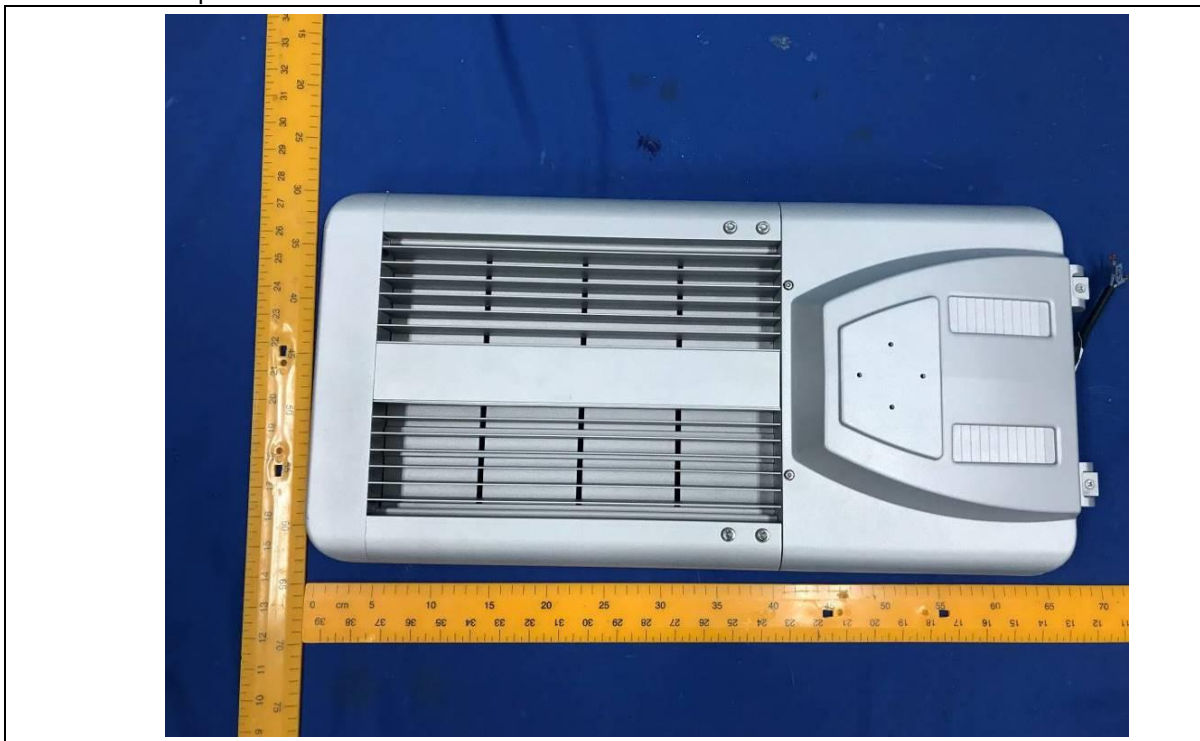
Photo documentation

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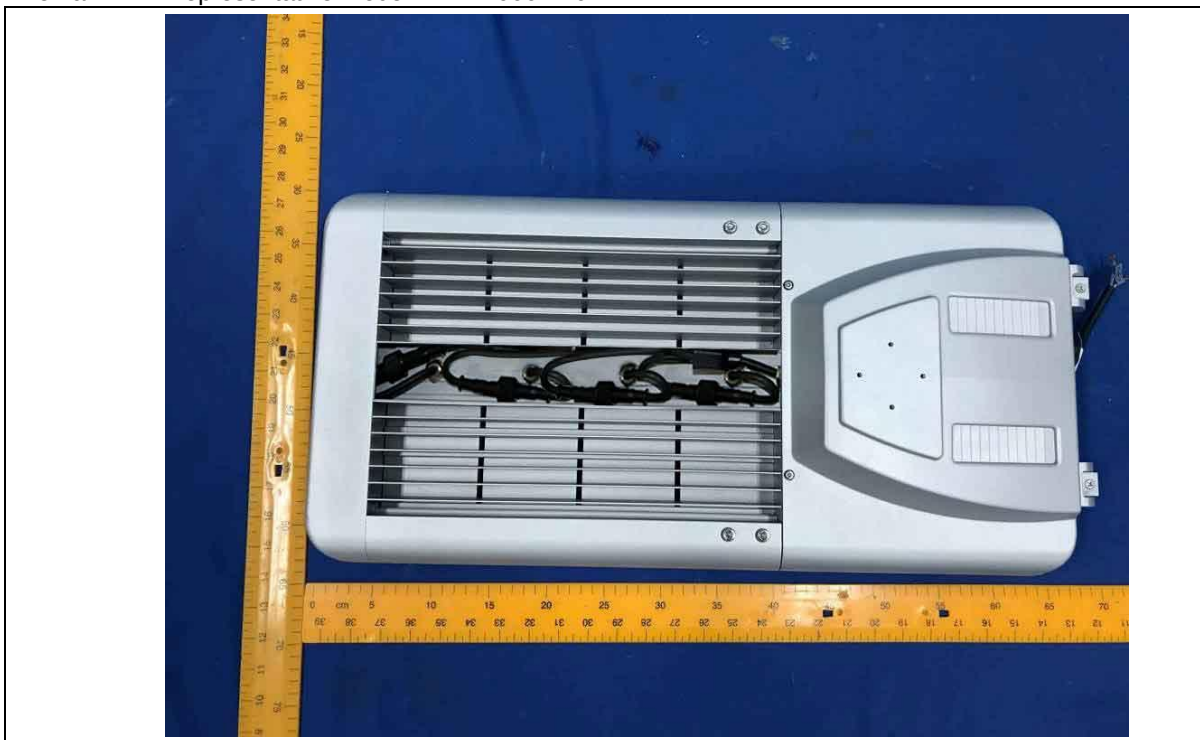
Details of: Outlook for 066 series models

Remark: Representative model PL-LD-066-240W



Details of: Back internal view for 066 series models

Remark: Representative model PL-LD-066-240W



Attachment No. 4

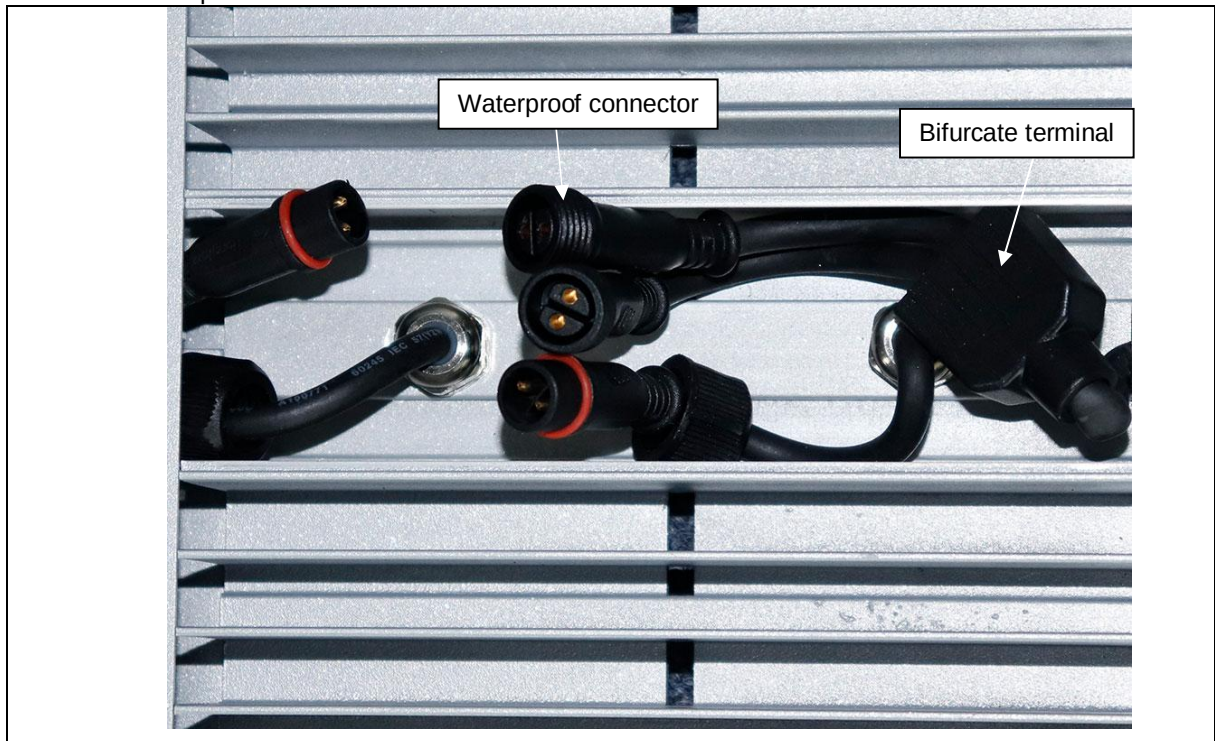
Photo documentation

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Details of: Waterproof connector and bifurcate terminal view for 066 series models

Remark: Representative model PL-LD-066-240W



Details of: Bifurcate terminal view for 066 series models

Remark: Representative model PL-LD-066-240W



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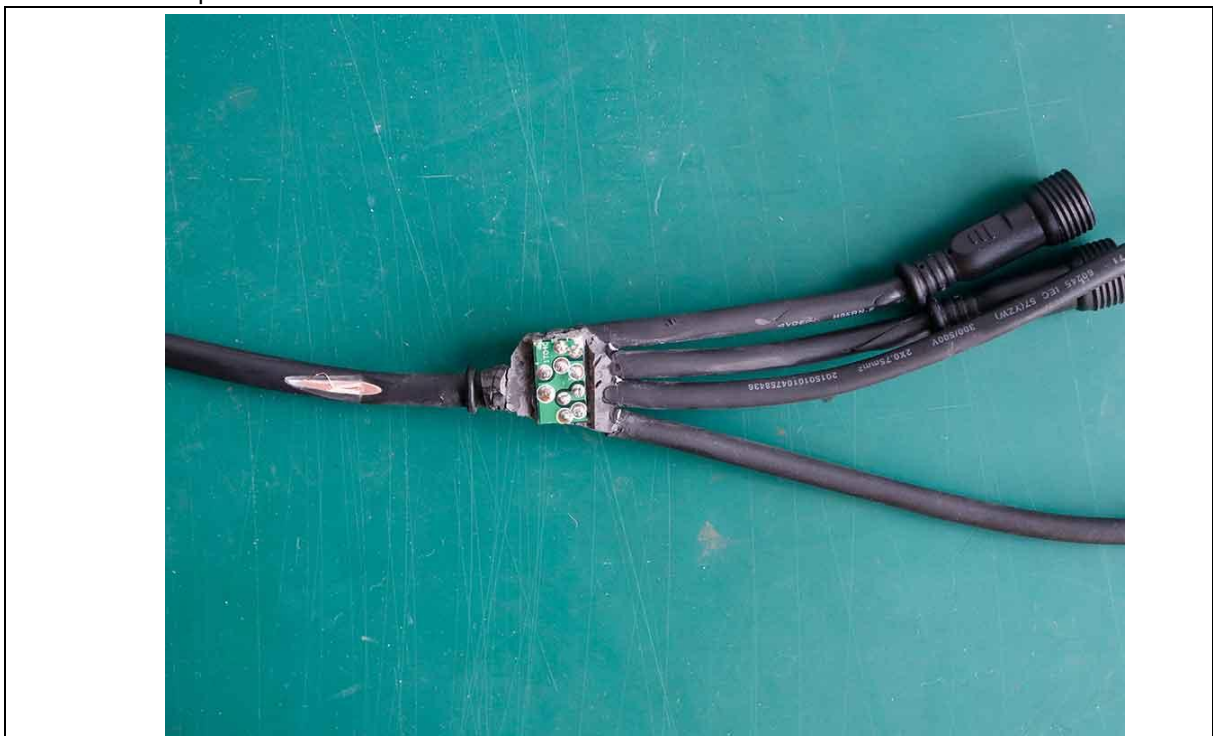
Details of: Bifurcate terminal internal view for 066 series models

Remark: Representative model PL-LD-066-240W



Details of: Bifurcate terminal internal view for 066 series models

Remark: Representative model PL-LD-066-240W



Attachment No. 4

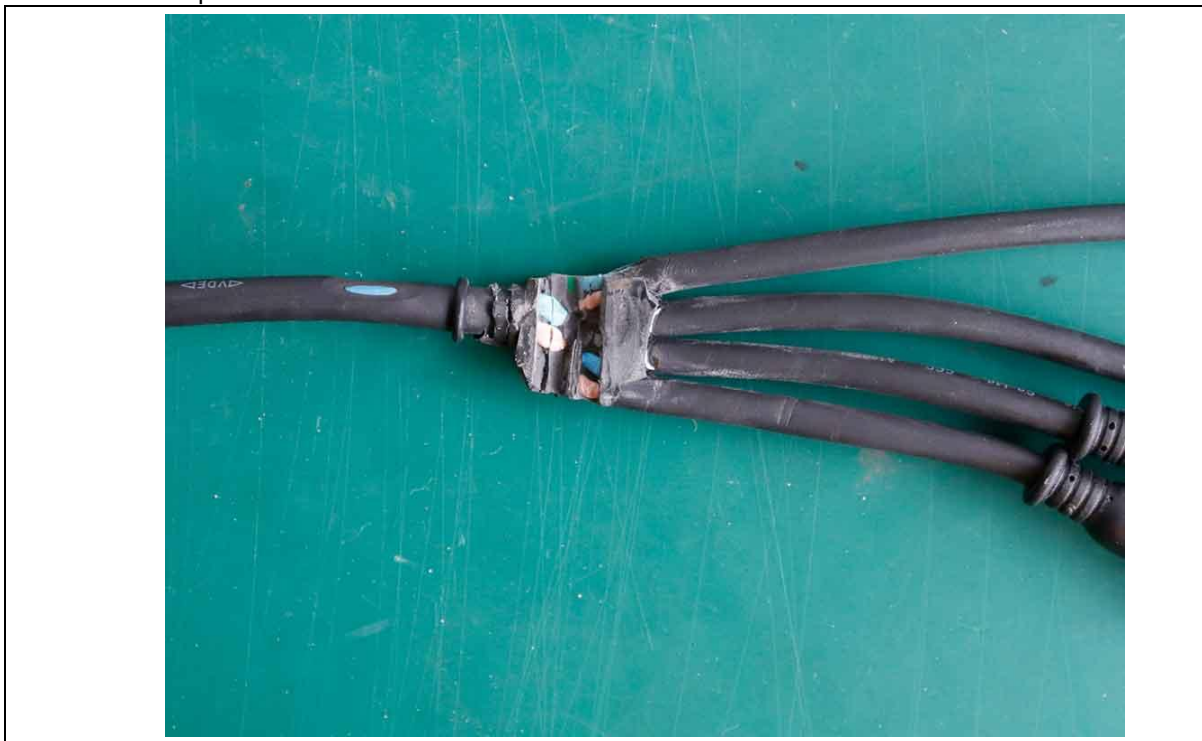
Photo documentation

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Report No.: 64.142.18.50069.01

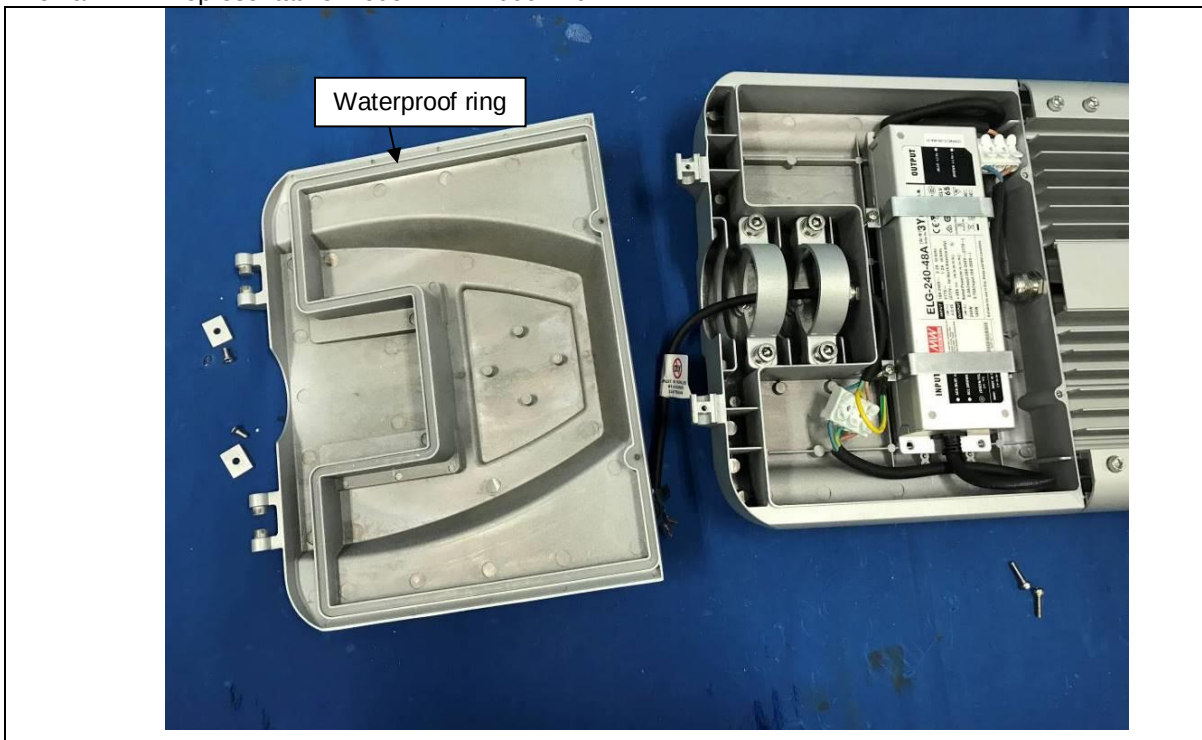
Details of: Bifurcate terminal internal view for 066 series models

Remark: Representative model PL-LD-066-240W



Details of: Internal view for 066 series models

Remark: Representative model PL-LD-066-240W



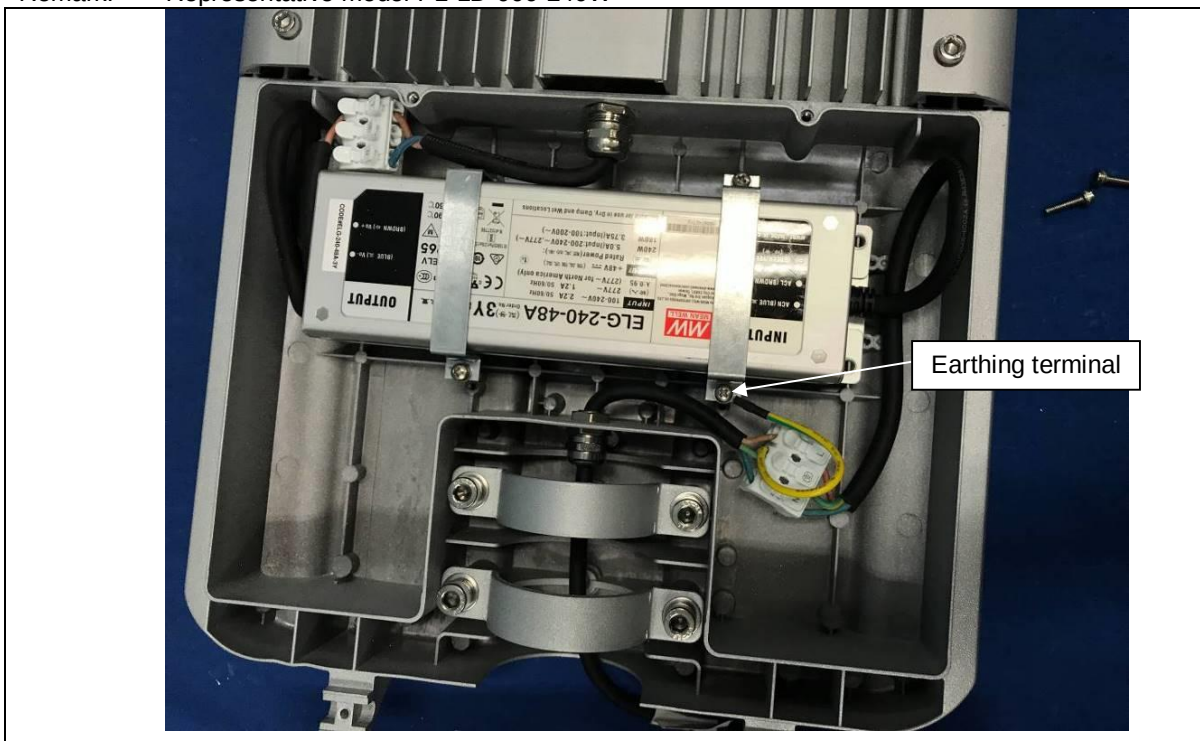
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Details of: Internal view for 066 series models
 Remark: Representative model PL-LD-066-240W



Details of: LED module view for 066 series models
 Remark: Representative model PL-LD-066-240W



Attachment No. 4

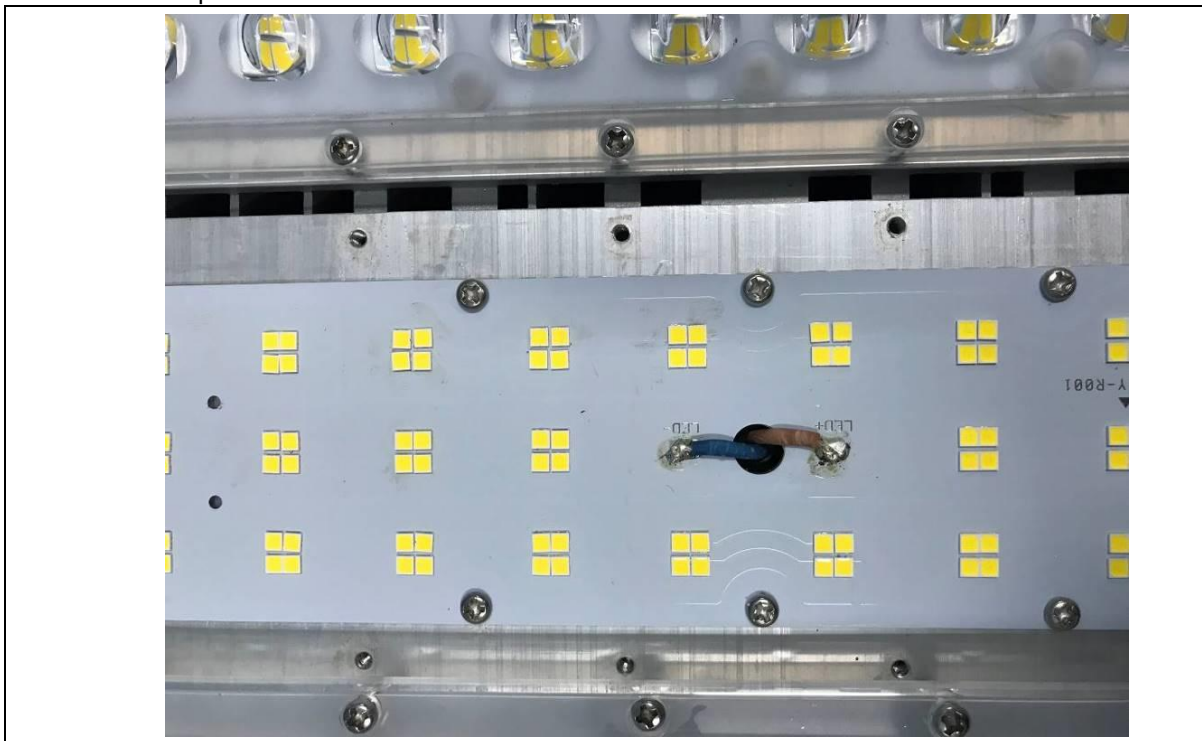
Photo documentation

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Report No.: 64.142.18.50069.01

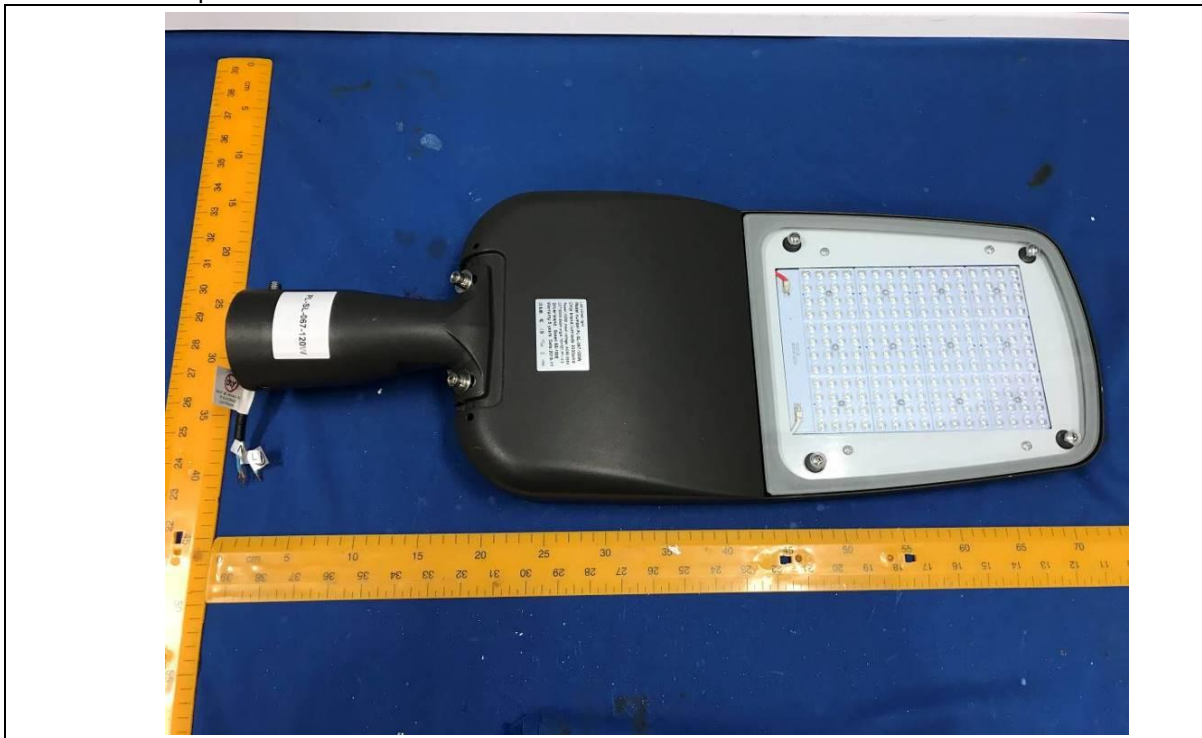
Details of: LED module view for 066 series models

Remark: Representative model PL-LD-066-240W



Details of: Outlook for 067 series models

Remark: Representative model PL-LD-067-120W



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Details of: Outlook for 067 series models
Remark: Representative model PL-LD-067-120W



Details of: Outlook for 067S series models
Remark: Representative model PL-LD-067S-200W



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Details of: Outlook for 067S series models
 Remark: Representative model PL-LD-067S-200W



Details of: Internal view for 067 and 067S series models
 Remark: Representative model PL-LD-067-120W



Attachment No. 4

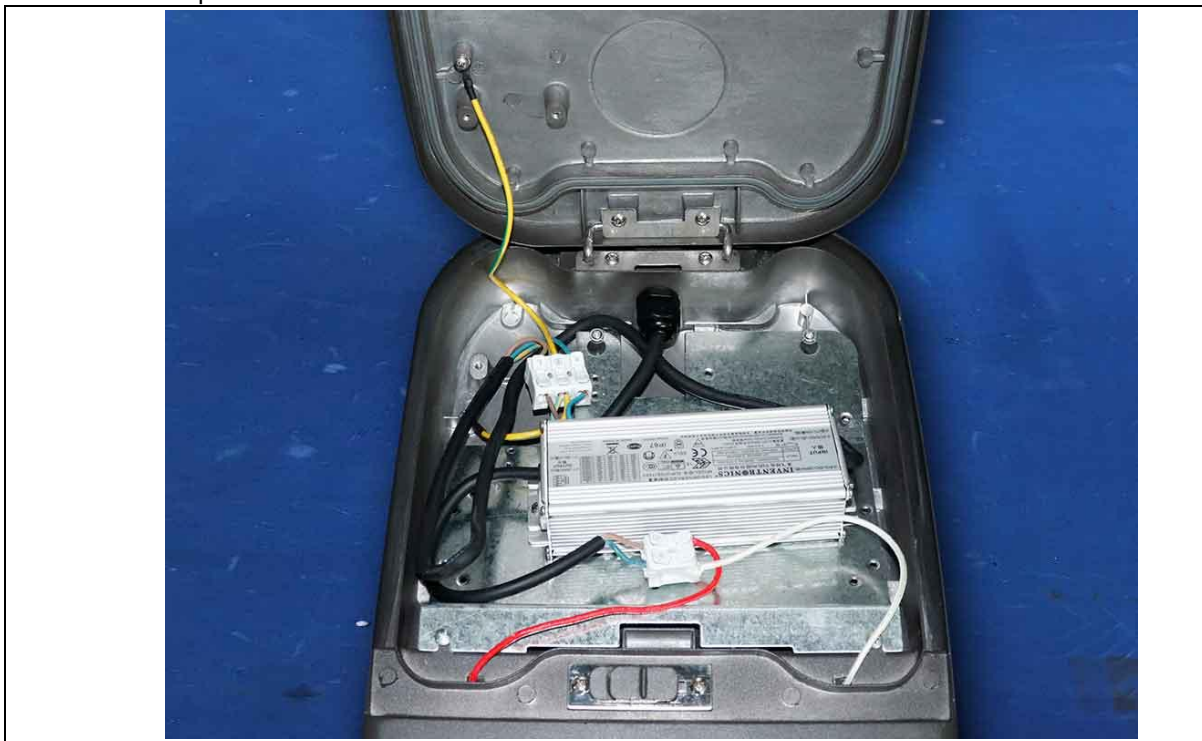
Photo documentation

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Report No.: 64.142.18.50069.01

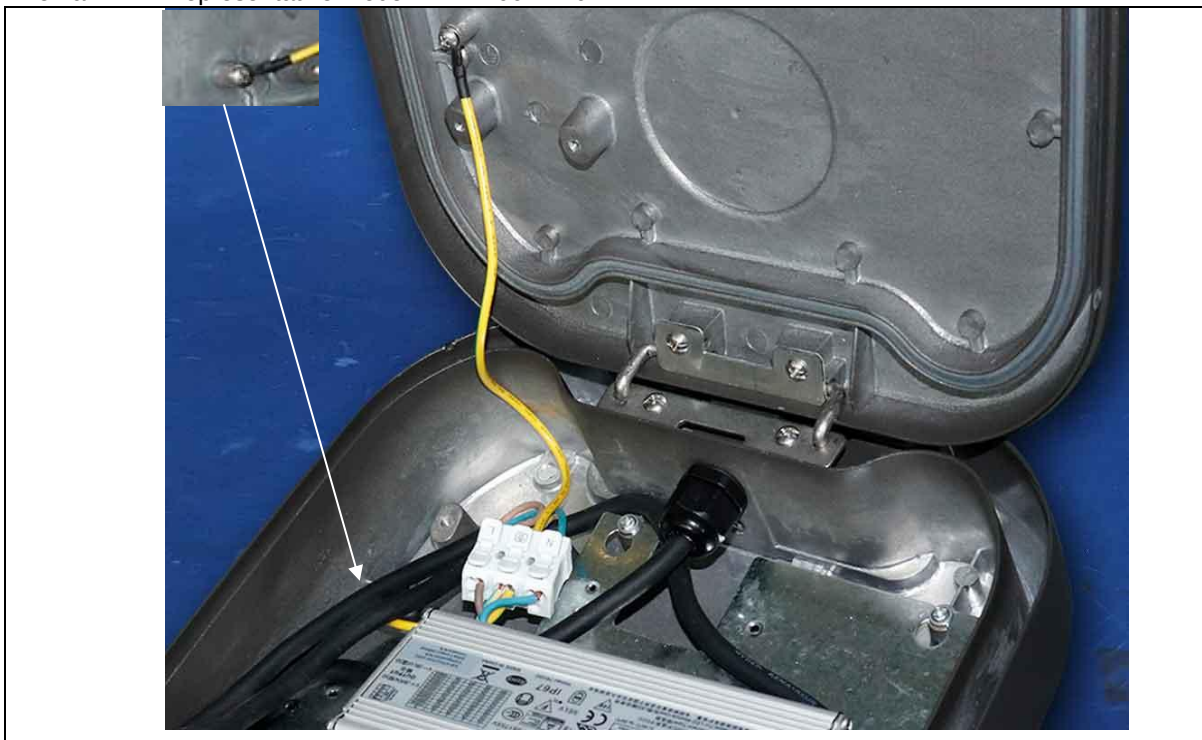
Details of: Internal view for 067 and 067S series models

Remark: Representative model PL-LD-067-120W



Details of: Earthing terminal view for 067 and 067S series models

Remark: Representative model PL-LD-067-120W



Attachment No. 4

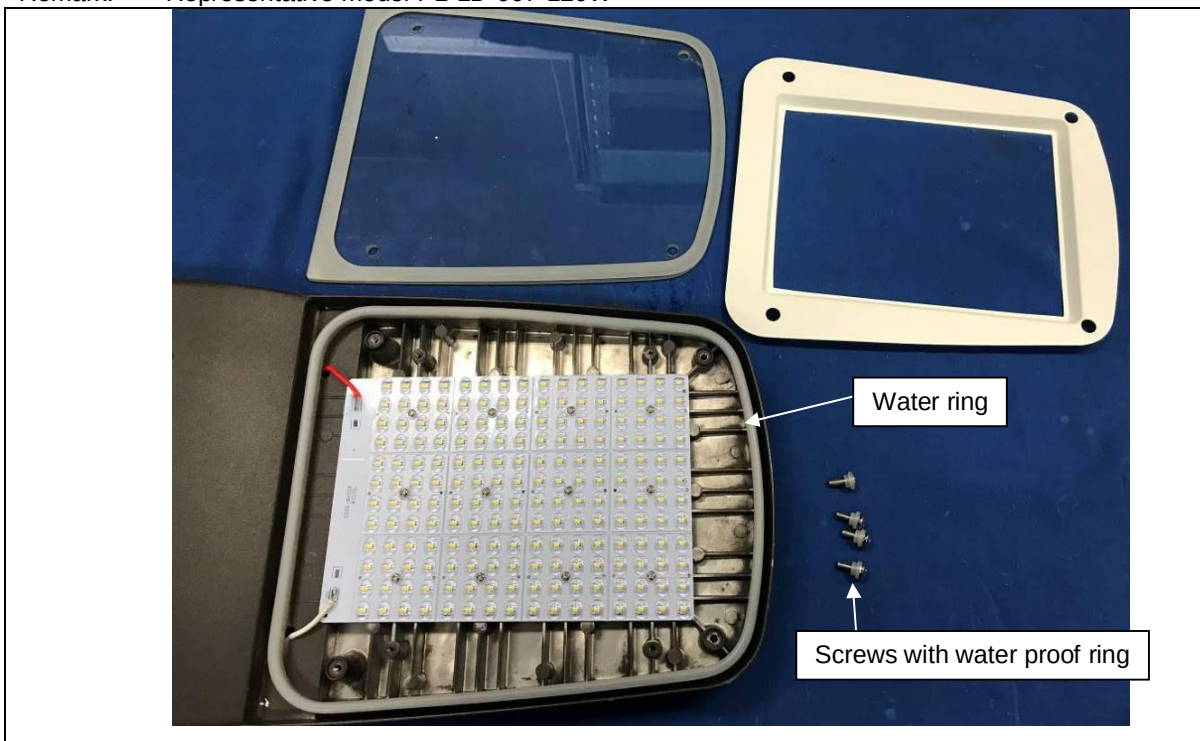
Photo documentation

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Details of: LED module view for 067 series models

Remark: Representative model PL-LD-067-120W



Details of: LED module view for 067 series models

Remark: Representative model PL-LD-067-120W



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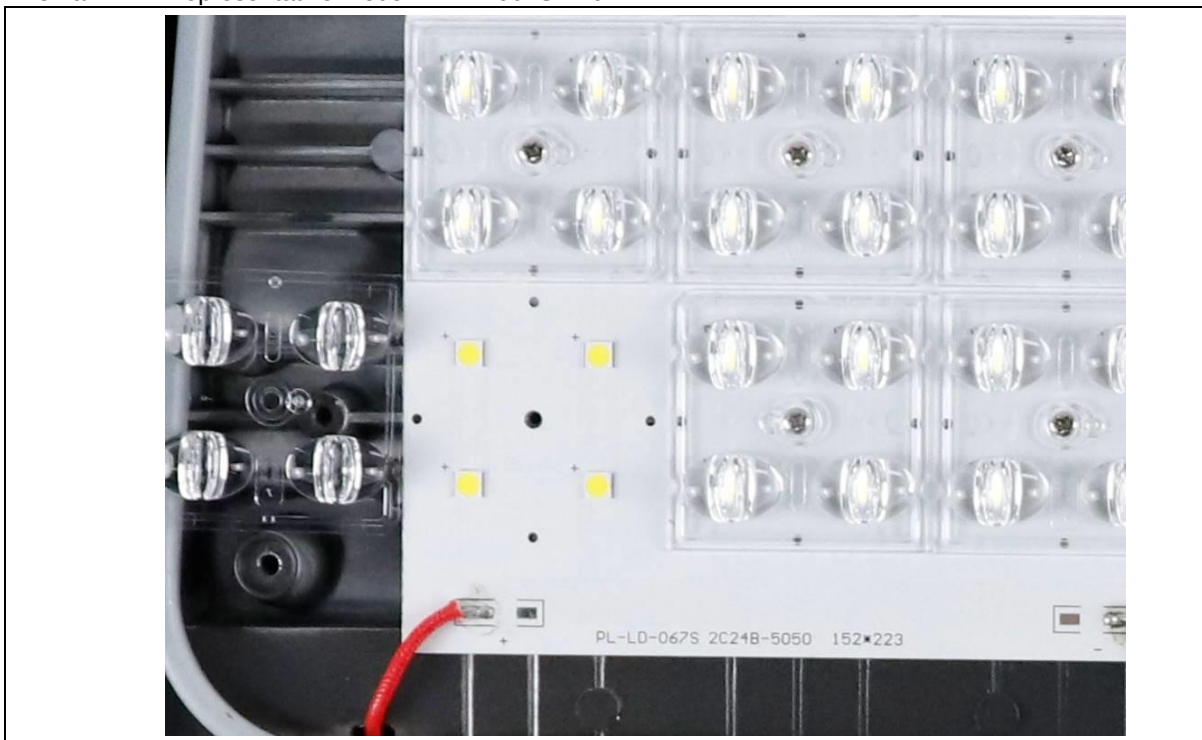
Details of: LED module view for 067S series models

Remark: Representative model PL-LD-067S-120W



Details of: LED module view for 067S series models

Remark: Representative model PL-LD-067S-120W



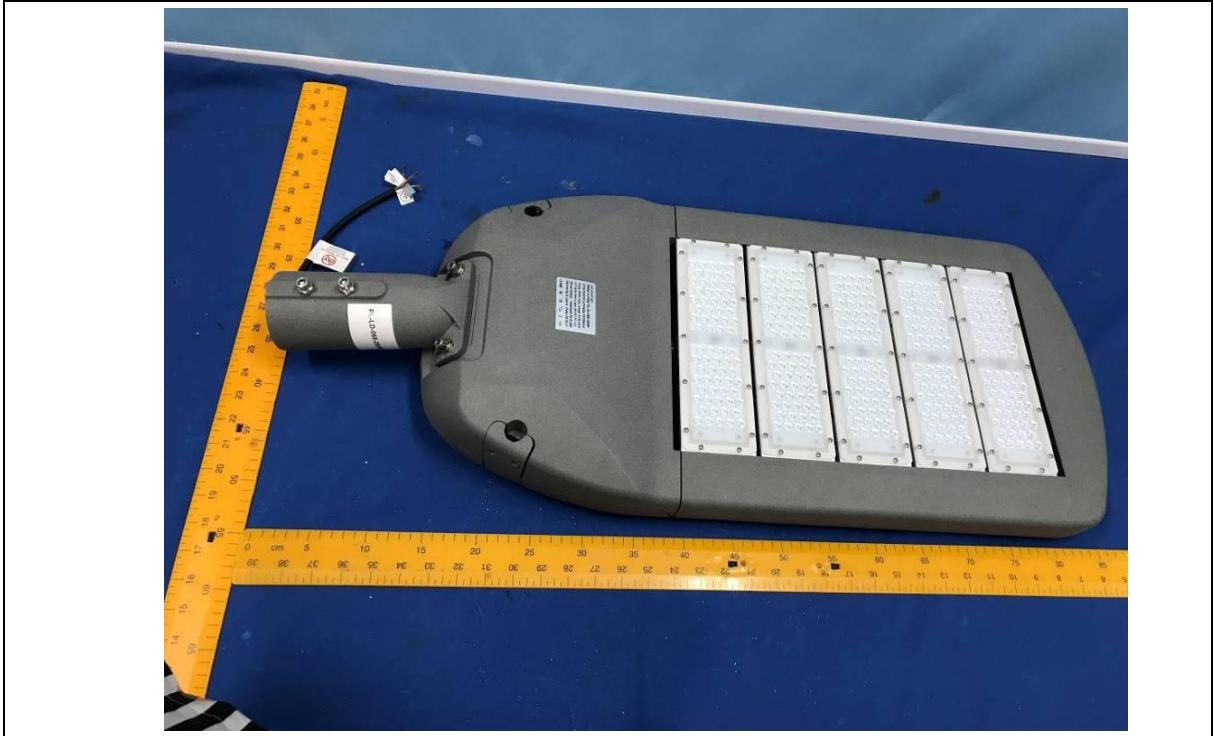
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Photo documentation

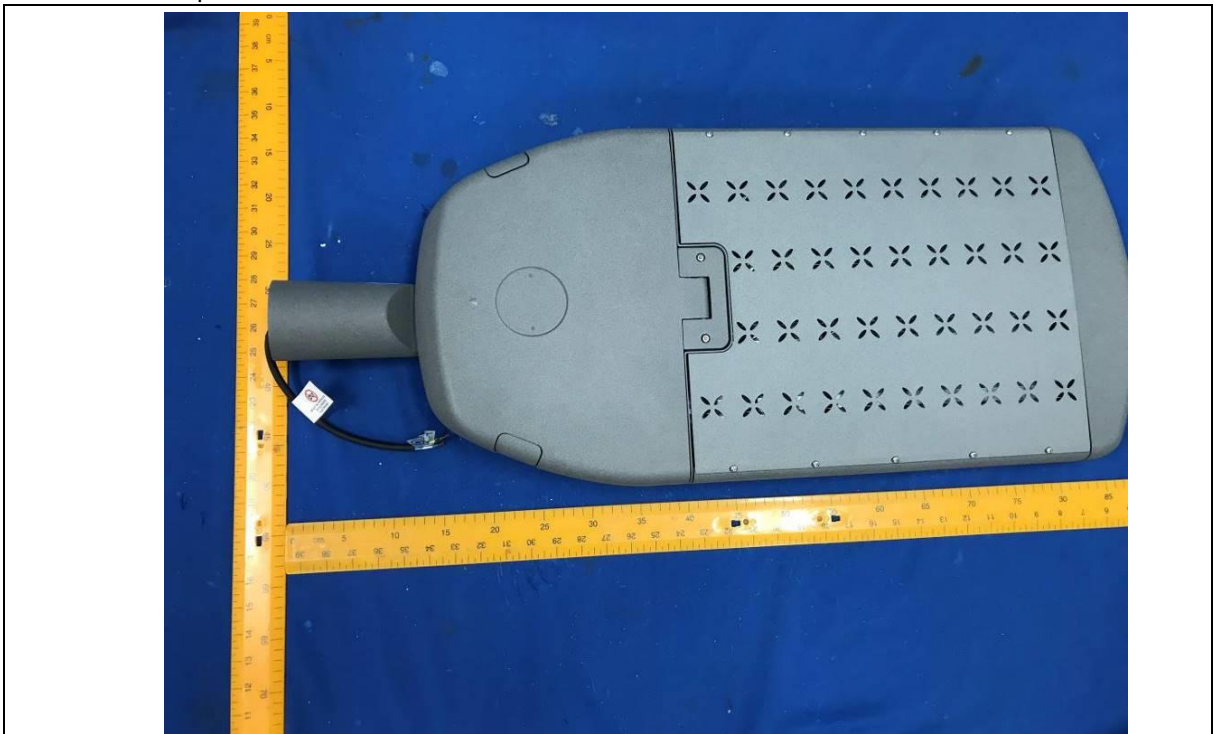
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Details of: Outlook for 068 series models
 Remark: Representative model PL-LD-068-250W



Details of: Outlook for 068 series models
 Remark: Representative model PL-LD-068-250W



Attachment No. 4

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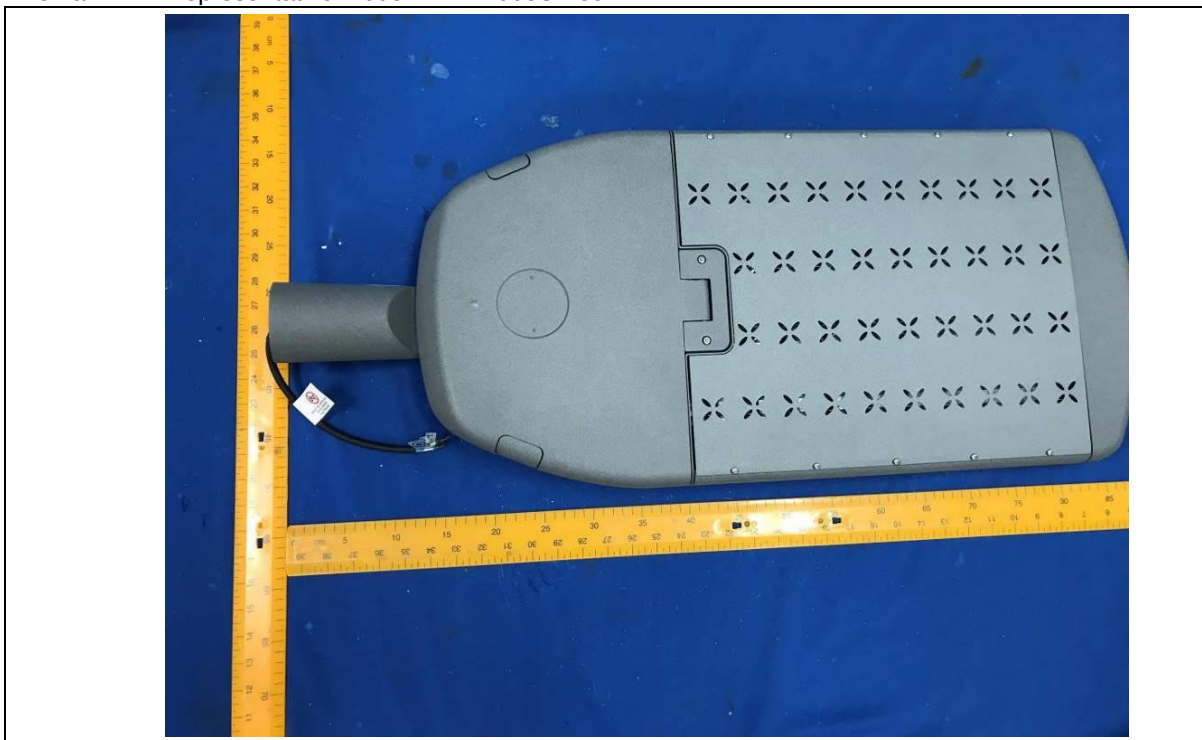
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Details of: Outlook for 068S series models
 Remark: Representative model PL-LD-068S-250W



Details of: Outlook for 068S series models
 Remark: Representative model PL-LD-068S-250W



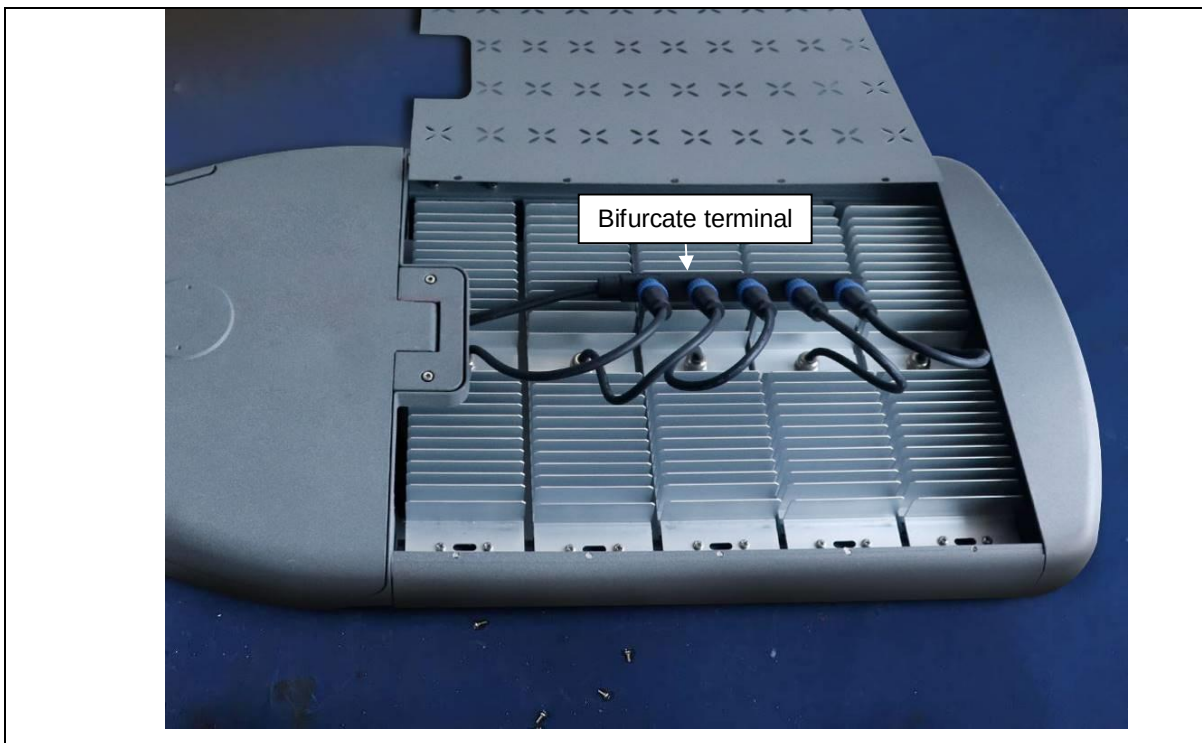
Attachment No. 4

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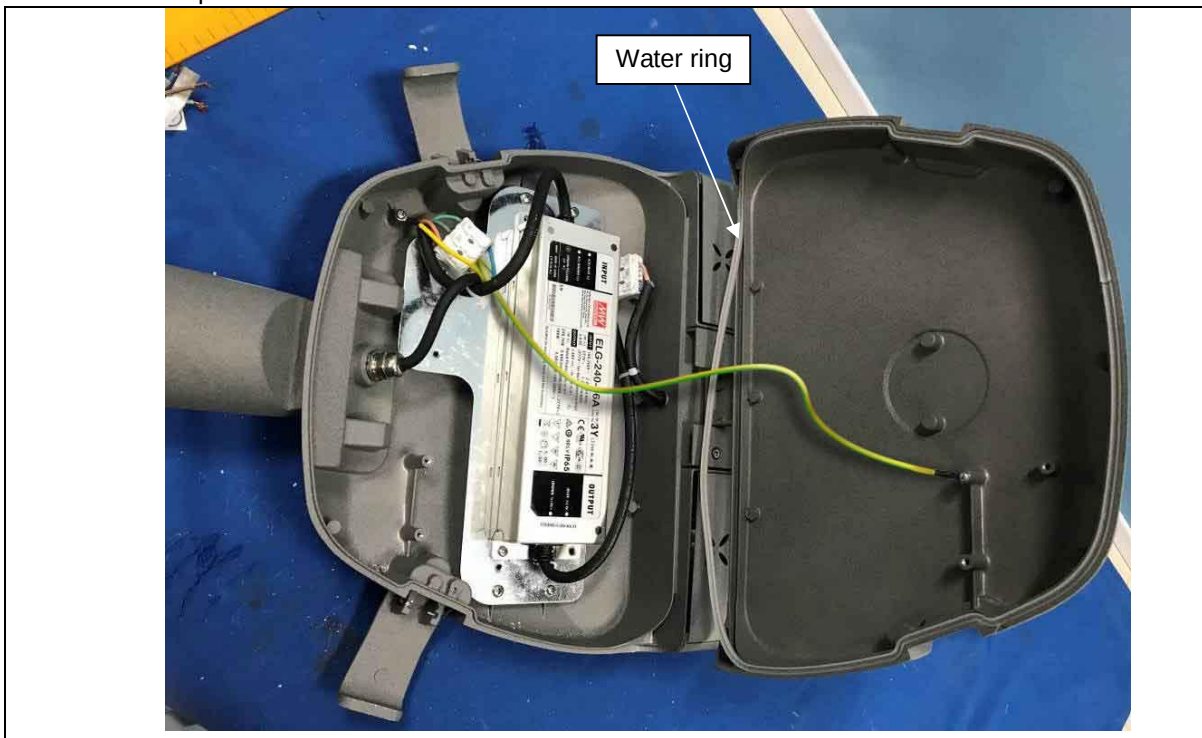
Report No.: 64.142.18.50069.01

Details of: Internal view for 068 and 068S series models



Details of: Internal view for 068 and 068S series models

Remark: Representative model PL-LD-068-250W



Details of: Internal view for 068 and 068S series models

Remark: Representative model PL-LD-068-250W



Details of: LED module view for 068 series models

Remark: Representative model PL-LD-068-250W



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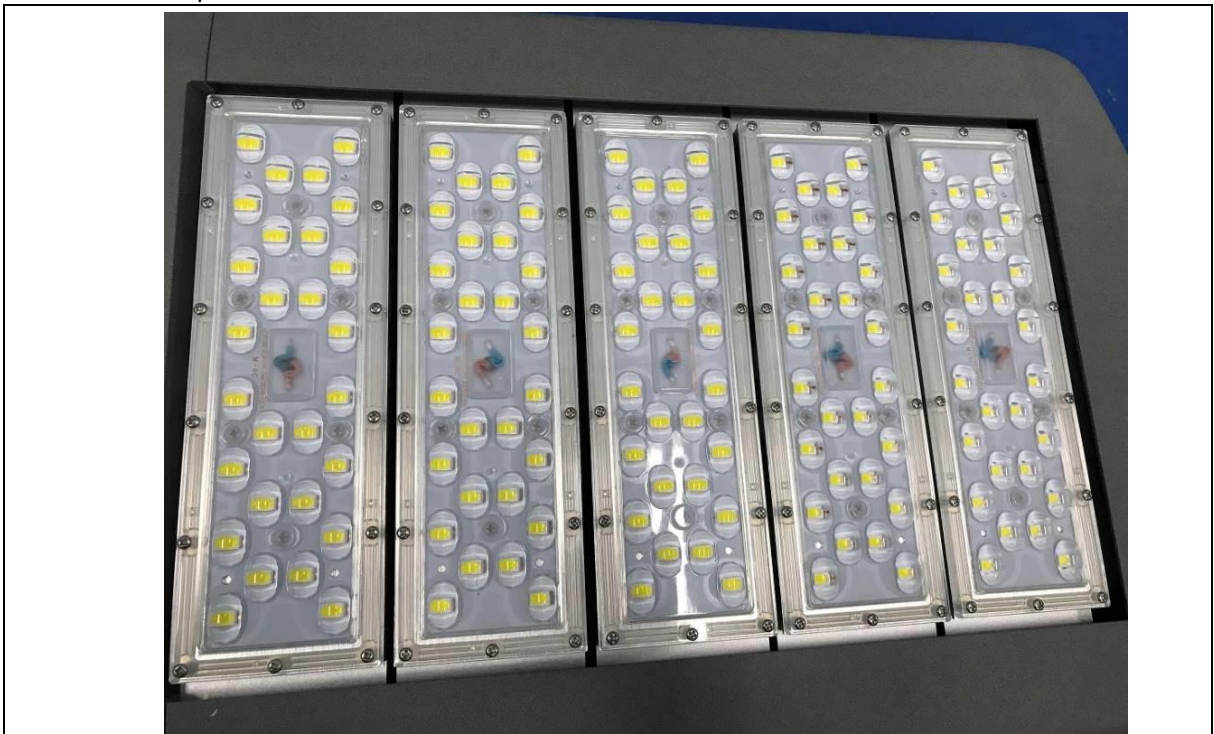
Details of: LED module view for 068 series models

Remark: Representative model PL-LD-068-250W



Details of: LED module view for 068S series models

Remark: Representative model PL-LD-068S-250W



Attachment No. 4

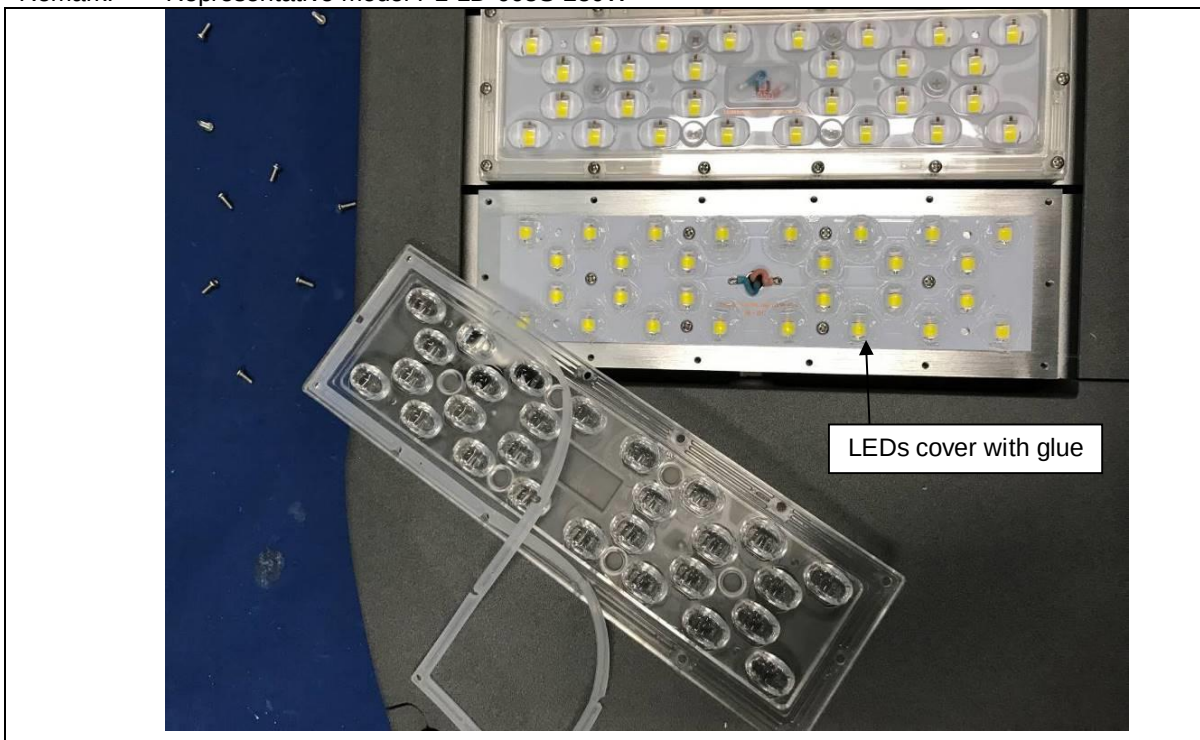
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Details of: LED module view for 068S series models

Remark: Representative model PL-LD-068S-250W



Details of: Outlook for 069 series models

Remark: Representative model PL-LD-069-250W



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Details of: Outlook for 069 series models
 Remark: Representative model PL-LD-069-250W



Details of: Outlook for 069S series models
 Remark: Representative model PL-LD-069S-250W



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Details of: Outlook for 069S series models
 Remark: Representative model PL-LD-069S-250W



Details of: Internal view for 069 and 069S series models
 Remark: Representative model PL-LD-069-250W



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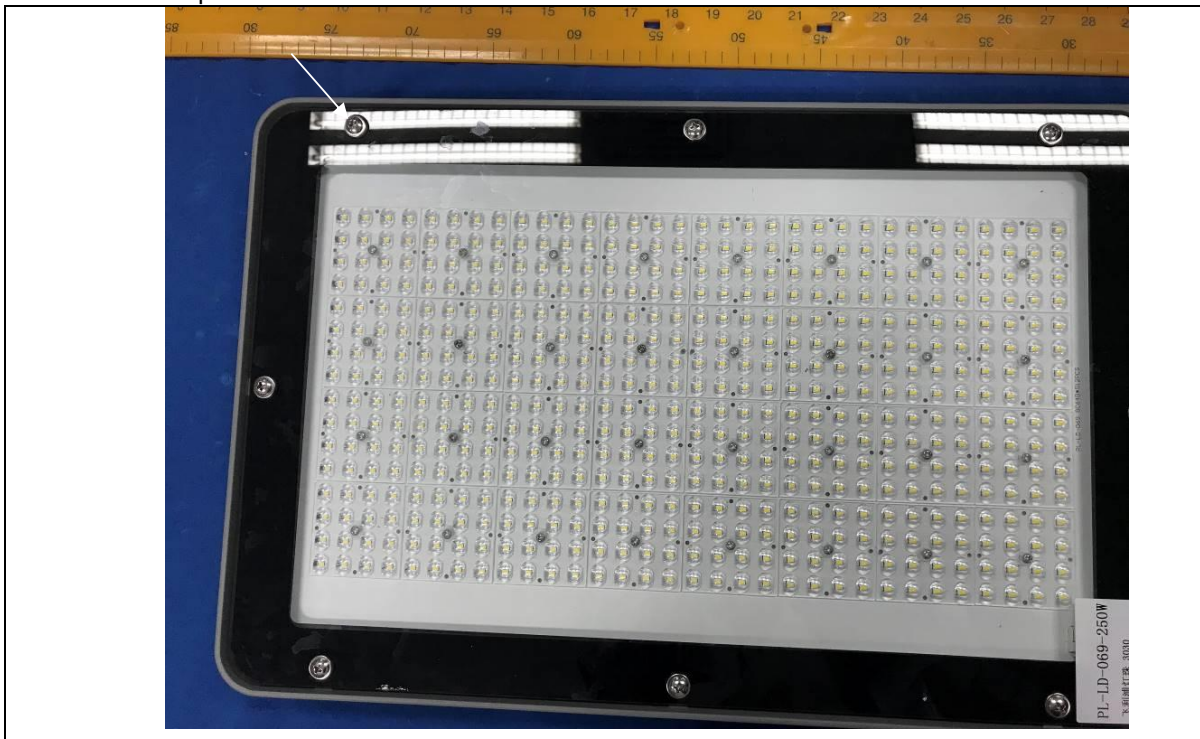
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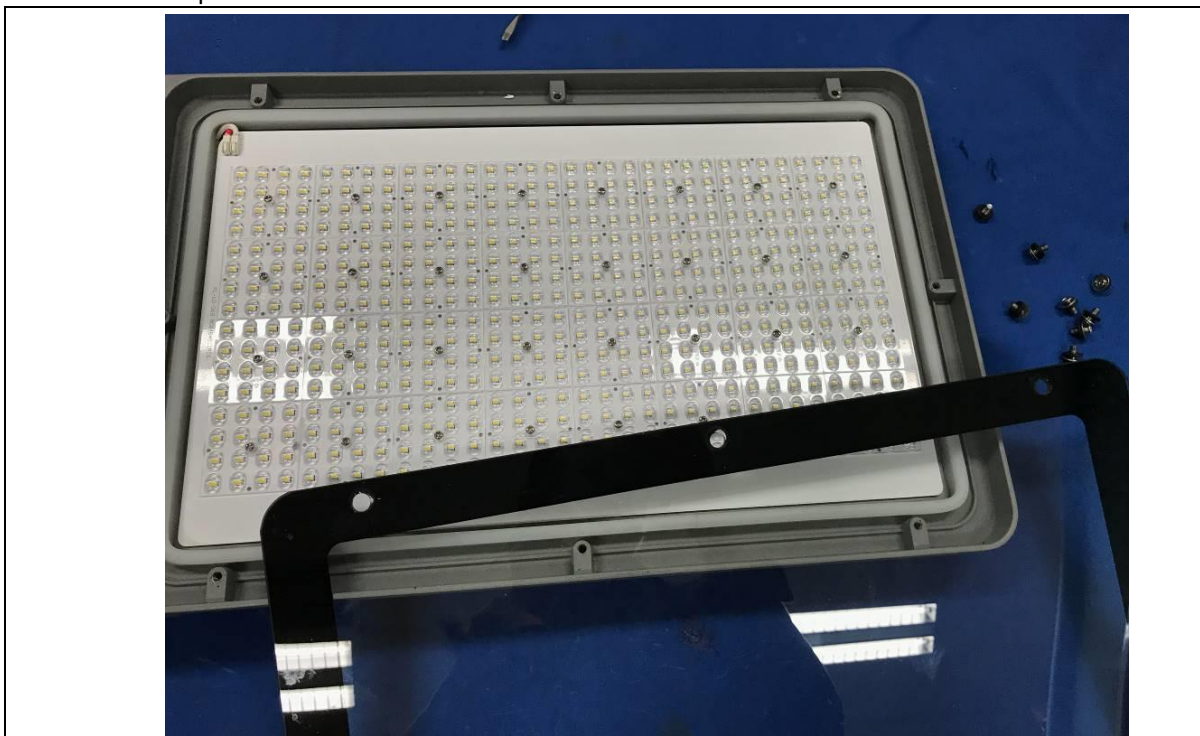
Details of: LED module view for 069 and 069S series models series models

Remark: Representative model PL-LD-069-250W



Details of: LED module view for 069 series models

Remark: Representative model PL-LD-069-250W



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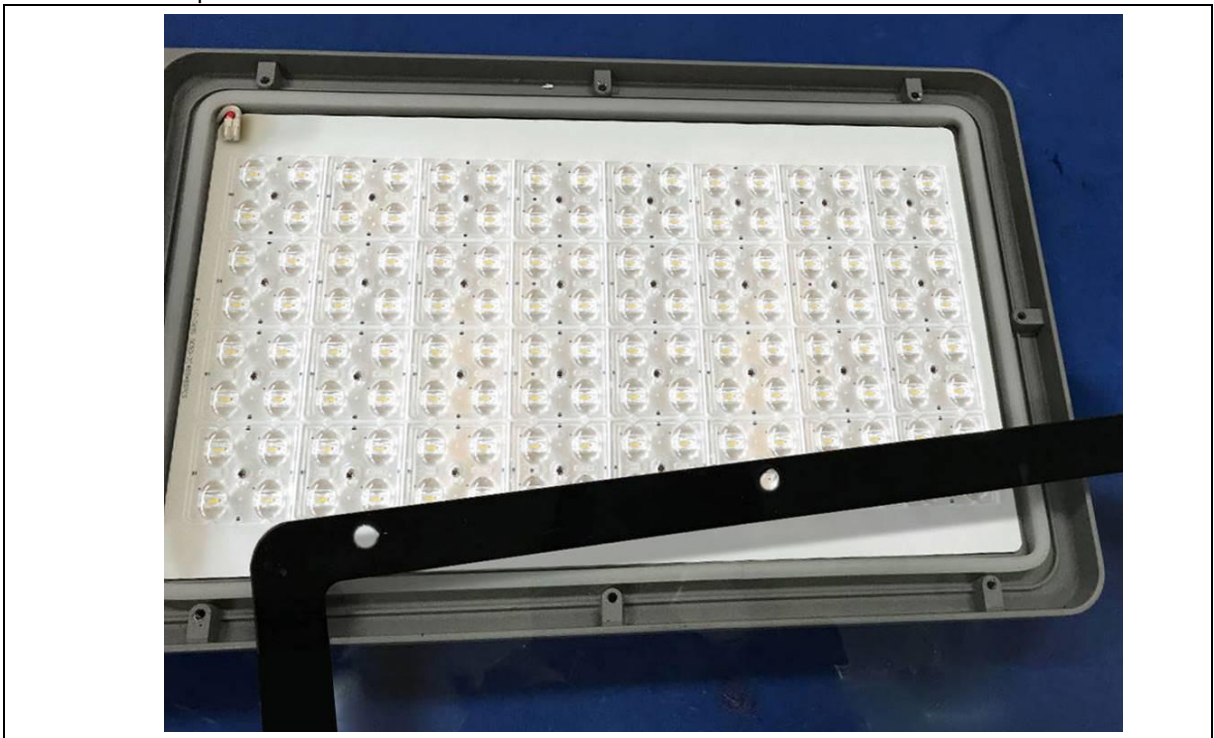
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Details of: LED module view for 069 series models
 Remark: Representative model PL-LD-069-250W



Details of: LED module view for 069S series models
 Remark: Representative model PL-LD-069S-250W



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Details of: LED module view for 069S series models

Remark: Representative model PL-LD-069S-250W



Details of: Bifurcate terminal view for 057, 057S, 058, 058S, 068 and 068S series models

Representative model: PL-LD-068S-250W



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Details of: Connector of bifurcate terminal view for 057, 057S, 058, 058S, 068 and 068S series models
Representative model: PL-LD-068S-250W



Details of: Input terminal block view for models except 057 and 057S series models



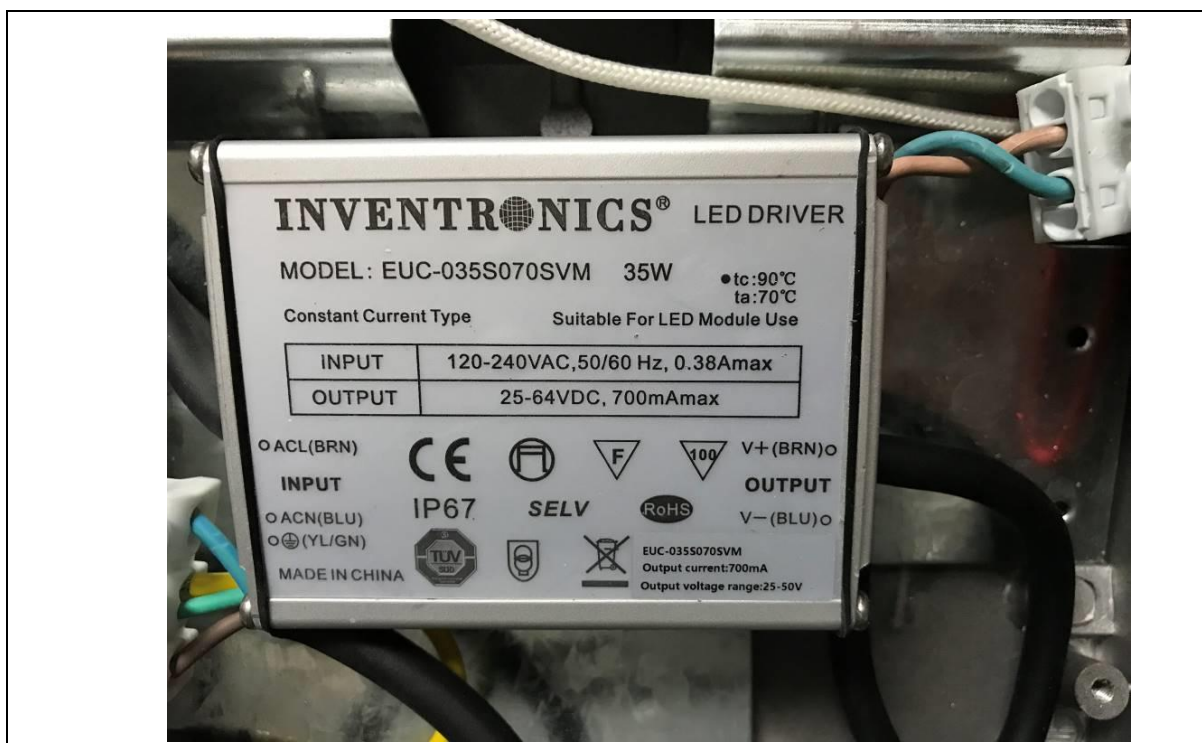
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Details of: LED driver view (EUC-035S070SVM)



Details of: LED driver view (EUC-060S105SVM)



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Details of: LED driver view (EUP-075S175SV)



Details of: LED driver view (EUP-075S280SV)



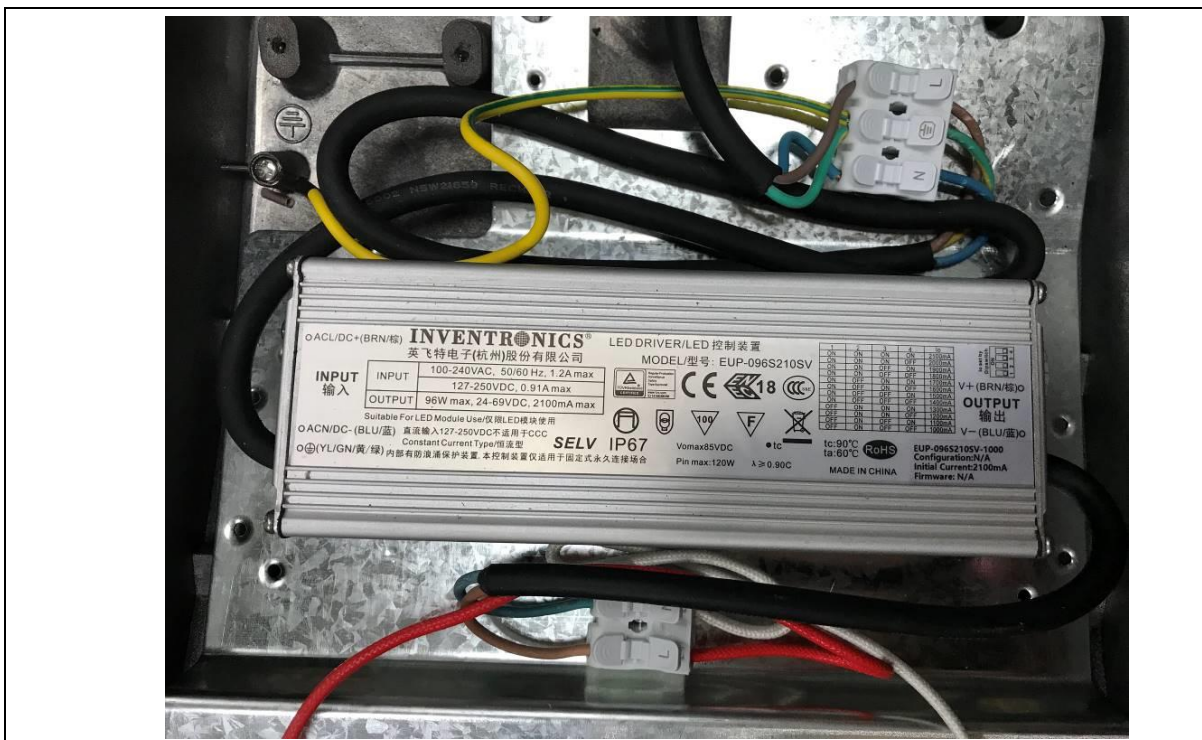
Attachment No. 4

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Details of: LED driver view (EUP-096S210SV)



Details of: LED driver view (EUP-096S350SV)



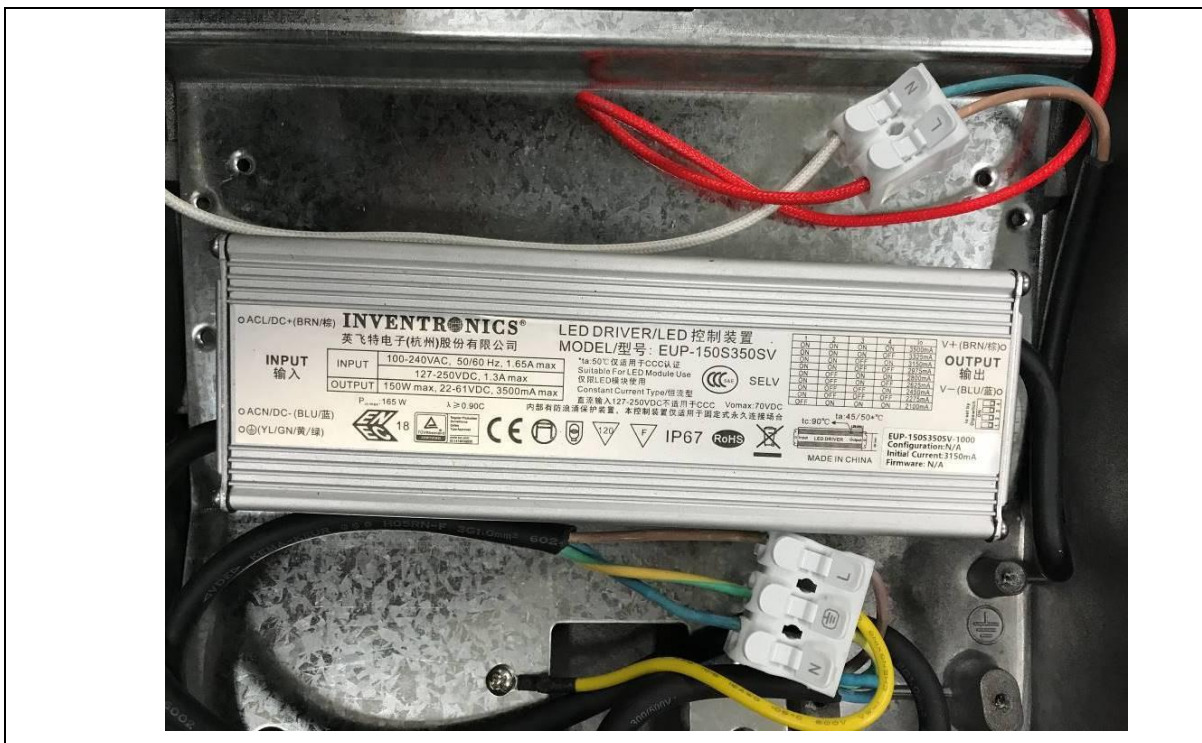
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Details of: LED driver view (EUP-150S350SV)



Details of: LED driver view (EUP-150S560SV)



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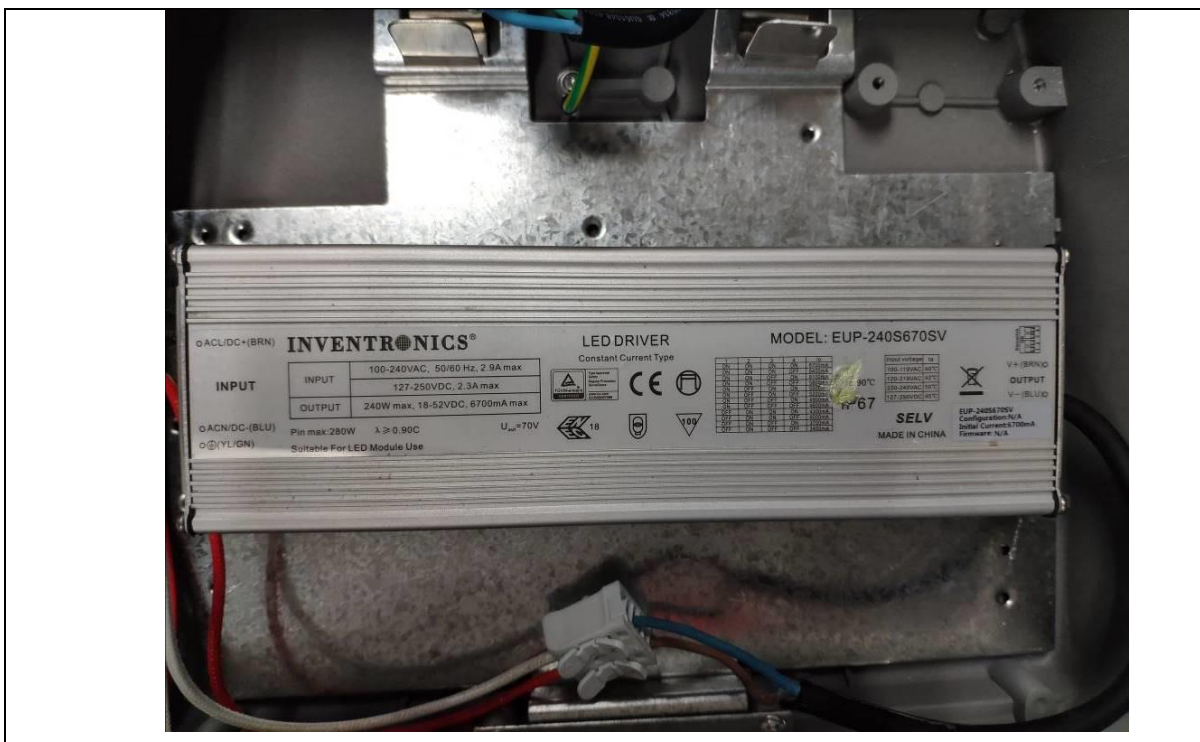
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Details of: LED driver view (EUP-200S560SV)



Details of: LED driver view (EUP-240S670SV)



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Details of: LED driver view (ELG-75-36A and ELG-75-48A)
Representative model: ELG-75-48A



Details of: LED driver view (ELG-100-36A and ELG-100-48A)
Representative model: ELG-100-48A



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Details of: LED driver view (ELG-150-36A and ELG-150-48A)
Representative model: ELG-150-48A



Details of: LED driver view (ELG-200-36A and ELG-200-48A)
Representative model: ELG-200-48A



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Details of: LED driver view (ELG-240-36A and ELG-240-48A)
Representative model: ELG-240-48A



Details of: LED driver view (HT-HLB-40H-48)



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Details of: LED driver view (HT-HLB-60H-42 and HT-HLB-60H-48)
Representative model: HT-HLB-60H-48



Details of: LED driver view (HT-HLB-80H-42 and HT-HLB-80H-48)
Representative model: HT-HLB-80H-48



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Details of: LED driver view (HT-HLB-100H-42 and HT-HLB-100H-48)
Representative model: HT-HLB-100H-48



Details of: LED driver view (HT-HLB-120H-42 and HT-HLB-120H-48)
Representative model: HT-HLB-120H-48



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Details of: LED driver view (HT-HLB-150H-42 and HT-HLB-150H-48)
Representative model: HT-HLB-150H-48



Details of: LED driver view (HT-HLB-200H-42 and HT-HLB-200H-48)
Representative model: HT-HLB-200H-48



End of Report