


TEST REPORT IEC 62722-1: 2014 Luminaire performance – Part 1: General requirements	
Report No.	OI-2016-C0063
Date of issue	Jan. 05, 2017
Testing Laboratory	SGS Taiwan Ltd., Optics Laboratory
Address	No. 33, Wu Chyuan Road, New Taipei Industrial Park, Wu Ku District, New Taipei City 24886, Taiwan (R.O.C.)
Applicant's name	Top Win Optoelectronics Corp.
Address	5F. -2, No. 120, Qiaohed Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)
Test specification:	
Standard	IEC 62722-1: 2014 Luminaire performance – Part 1: General requirements
Test procedure	CE Marking Testing
Non-standard test method	N/A
Test item description	LED Street Light
Trade Mark	SLITE
Manufacturer	Top Win Optoelectronics Corp.
Model/Type reference	TW-PD0365011-D5, TW-PD0555011-D5, TW-PD0725011-D5, TW-PD0855011-D5, TW-PD0905011-D5, TW-PD1105011-D5, TW-PD1355011-D5
Ratings	AC 100 V to 240 V (50 / 60) Hz
Conclusion:	In the opinion of SGS, the submitted <u>Device Under Test</u> (DUT) complies with the IEC 62722-1 test specification.
	Approved by: Benson DENG Supervisor Jan. 05, 2017
	 _____ Signature
Details and test results are given in subsequent pages of this report. This report refers only to the unit(s) submitted for test. "(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 point is used as the decimal separator. This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/terms_e-document.htm Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.	

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<input checked="" type="checkbox"/> Testing Laboratory:		SGS Taiwan Ltd., Optics Laboratory		
Testing Location / Address.....:		<input checked="" type="checkbox"/> No. 33, Wu Chyuan Road, New Taipei Industrial Park, Wu Ku District, New Taipei City 24886, Taiwan (R.O.C.)		
		<input type="checkbox"/> No. 61, Kai-Fa Road, Nanzih Export Processing Zone, Kaohsiung 81170, Taiwan (R.O.C.)		
Main Test Equipment:				
Name	Brand	Model	S/N	Calibration Due Date
Digital Power Meter / AC Source	YOKOGAWA / apc	WT-310 / AFC-500W	C2PK22023V/ F312120079	2017/8/18
Goniophotometer	SGS Define (CZIBULA & GRUNDMANN GMBH / everfine)	EVERFINE GO-R5000-PLUS	1001001	2017/2/1
Summary of testing:				
This test report was issued for Energy Efficiency requirements of IEC 62722-1 Luminaire performance – Part 1: General requirements only.				
The compliance with the requirements of other applicable standards may be needed in additional test reports.				
Copy of marking plate:				
Please see IV Product Specification.				
Note: 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.				

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TEST REPORT	
Test item particulars:	
Classification of installation and use	Type I Roadway Lighting
Supply Connection.....	MEAN WELL
Class of equipment.....	IP66
Mass of the equipment.....	(4.2 to 8.9) kg (see IV)
Possible test case verdicts:	
– test case does not apply to the test object.....	N (Not applicable)
– test object does meet the requirement	P (Pass)
– test object does not meet the requirement	F (Fail)
Testing:	
Date of receipt of test item	Dec. 19, 2016
Date (s) of performance of tests	Dec. 20, 2016 ~ Dec. 30, 2016
General remarks:	
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report. Clause numbers between brackets refer to clauses in IEC 62722-1 Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</p>	
General product information:	
<p>The LED luminaire classification of IEC 62722-2-1 was type A.</p> <p>The LED luminaire classification of IEC 60598-2-3 was type I.</p>	

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I. Product Specification

Model No.	Rated input voltage (Vac)	Rated input Power (W)	Rated input current (A)	Model no. of LED driver	Number of LED Modules	Dimension (mm)
TW-PD0365011-D5	100-240	36	0.15-0.36	Mean Well / HLG-80H-42A	1	150*420*130
TW-PD0555011-D5	100-240	55	0.23-0.55		1	150*420*130
TW-PD0725011-D5	100-240	72	0.30-0.72	Mean Well / HLG-80H-42A	2	210*420*130
TW-PD0855011-D5	100-240	85	0.35-0.85		2	210*420*130
TW-PD0905011-D5	100-240	90	0.38-0.90		2	210*420*130
TW-PD1105011-D5	100-240	110	0.46-1.10		2	210*420*130
TW-PD1355011-D5	100-240	135	0.56-1.35	Mean Well / HLG-80H-42A	3	470*420*130

Reference Report No.

Model No.	IEC 60598-2-3	IEC 60598-1(IP66)	IEC 62717	IEC 62722-2-1
TW-PD0365011-D5	Report No. 6114016070001	Report No. 611401610401	Report No. OI-2016-70067	Report No. OI-2016-B0166
TW-PD0555011-D5	Report No. 6114016070001	Report No. 611401610401	Report No. OI-2016-70067	Report No. OI-2016-B0167
TW-PD0725011-D5	Report No. 6114016070001	Report No. 611401610401	Report No. OI-2016-70067	Report No. OI-2016-B0168
TW-PD0855011-D5	Report No. 6114016070001	Report No. 611401610401	Report No. OI-2016-70067	Report No. OI-2016-B0169
TW-PD0905011-D5	Report No. 6114016070001	Report No. 611401610401	Report No. OI-2016-70067	Report No. OI-2016-B0170
TW-PD1105011-D5	Report No. 6114016070001	Report No. 611401610401	Report No. OI-2016-70067	Report No. OI-2016-B0171
TW-PD1355011-D5	Report No. 6114016070001	Report No. 611401610401	Report No. OI-2016-70067	Report No. OI-2016-B0172

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IEC 62722-1			
Clause	Requirement + Test	Result - Remark	Verdict
4	General requirements		--
4.1	Luminaires shall be tested complete with the light source and controlgear specified by the manufacturer. Except where otherwise specified, the luminaire, light source and controlgear shall be tested as new, and installed as for normal use, having regard to the manufacturer's installation instructions.		P
4.2	Luminaires shall meet the requirements of the IEC 60598-2 series standards that are appropriate to their design.	Reference IEC 60598-2-3 Report No.: 611401607001	P
4.3	Luminaires shall meet all requirements of this Part 1 and where applicable also the additional requirements of the IEC 62772-2 series appropriate to the type of light source used by the luminaire. Where detailed in the IEC 62772-2 series, alternative methods of measurement or limits to those given in this Part 1 may be specified.	Reference IEC 62722-2-1 Report no. see page 4.	P
4.4	Where it is specified by this standard that data is to be provided, this data may be supplied by the manufacturer in printed or electronic formats, via the manufacturer's catalogues, website, or similar, unless otherwise specified by this standard.	See IV Product Specification.	P
4.5	Luminaires for tungsten filament lamps may be photometrically rated, electrically rated and efficacy-rated with lamps of any wattage not exceeding the marked maximum, and any technology (e.g. halogen, self-ballasted compact fluorescent or self-ballasted LED), if these lamps are covered by an available IEC safety standard and are shown to comply with that standard. For these luminaires, the number of lamps, their technology and their wattage shall be given in the luminaire manufacturer's catalogue, website or similar. The use of an ILCOS code according to IEC 61231 is recommended. Further details may be necessary to identify the type of lamp.	LED Light source.	N
4.6	The luminaire manufacturer shall be prepared to provide information for the specific light source used for the test.	Reference IEC 62722-2-1 Report no. see page 4.	P
5	Light sources and components of luminaires		--
	Any light sources and components delivered with the luminaire shall comply with the requirements of the IEC performance standards that are appropriate to them.	Reference IEC 62722-2-1 Report no. see page 4.	P

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IEC 62722-1			
Clause	Requirement + Test	Result - Remark	Verdict

6	Photometric data		--
	Photometric data shall be available for the luminaire and any optical attachments or accessories that the luminaire has been specified for use with. The following photometric data shall be provided.		--
a)	Light output ratio (LOR) or the total luminous flux of the luminaire.	See II. TESTING VALUE	P
b)	Luminous intensity distribution	See II. TESTING VALUE	P
	Data shall be available in electronic file format to facilitate its use by lighting design software.	See II. TESTING VALUE	P
	When LOR is provided it shall be measured in accordance with CIE 121 and the light output ratio (LOR) of the luminaire shall not be more than 10 % (relative) below the rated value.	--	N
	When a total luminous flux is provided it shall be measured in accordance with CIE 121 and shall not be more than 10 % below the rated value.	See II. TESTING VALUE	P
	The distribution of luminous intensity, measured in accordance with CIE 121, shall generally be in accordance with that declared by the manufacturer. The method of comparison for the distribution shape, and limits for acceptance are given in Annex D.	See II. TESTING VALUE	P
	The allowed photometric variations detailed are to take account of manufacturing tolerances. When measurements are made, additional allowance for laboratory measurement uncertainty also needs to be considered.		P
	All photometric data shall be declared for the luminaire operating at its rated supply voltage.	Rate Voltage: 100 – 240 Vac	P
	For the photometric performance and measurement of emergency luminaires when operating in emergency mode, see also IEC 60598-2-22 and CIE 121-SP1.	--	N

7	Electrical data		--
	Electrical supply data shall be provided for the luminaire and shall include the following:		--
a)	rated supply voltage,	See IV Product Specification.	P
b)	rated input power;	See IV Product Specification.	P
c)	rated standby power;	--	N
d)	rated emergency lighting charging power.	Not emergency lighting	N
	Rated power values shall be rounded to the nearest whole number for 10 W and above and shall be to two significant figures when below 10 W.		P
	When measured at its rated supply voltage, under		P

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IEC 62722-1			
Clause	Requirement + Test	Result - Remark	Verdict
	conditions specified by Annex B, the electrical values shall not exceed the rated values declared by the manufacturer by more than 10%.		
8	Luminaire efficacy data		--
	Where luminaire efficacy data is provided this shall be with reference to rated light source performance data published by the light source manufacturer. The luminaire manufacturer shall be prepared to provide information of the specific light source data that has been used.	See IV Product Specification.	P
	Luminaire efficacy data shall be based on the rated photometric and electrical characteristics of the luminaire. For production light source and luminaire combinations, variation in accordance with parameters stated in IEC standards for light sources, controlgear, and luminaire standards may occur.	Only one light source and luminaire condition	N
9	Environmental data		--
9.1	Materials information	See IV Product Specification	P
9.2	Maintenance instructions	See IV Product Specification.	P
9.3	Disassembly instructions	See IV Product Specification.	P

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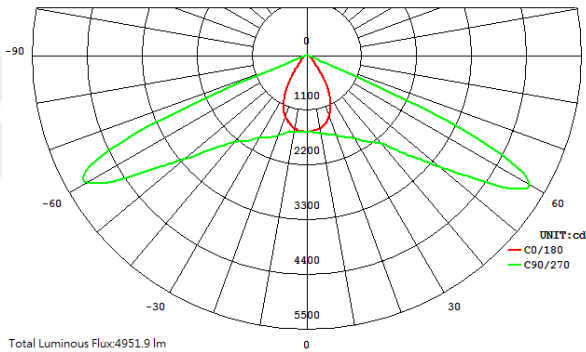
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II. TESTING VALUE of IEC 62722-2-1

A. Luminous intensity distribution

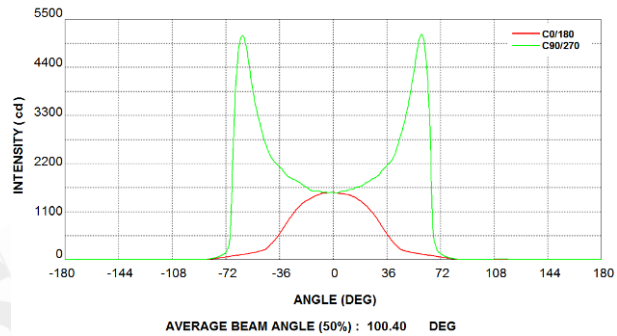
TW-PD0365011-D5

Polar Luminous Intensity Distribution



Polar Luminous Intensity Distribution

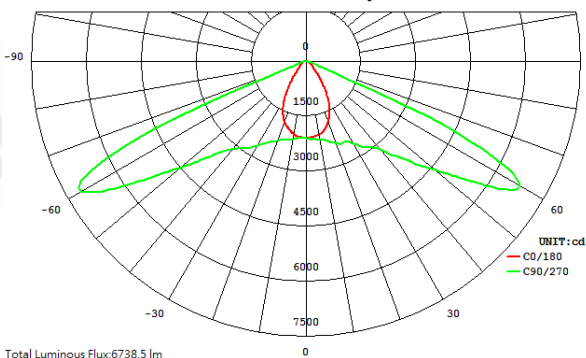
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Cartesian Coordinates Luminous Intensity Distribution

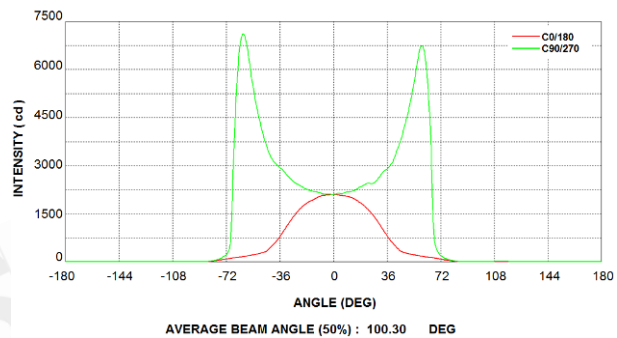
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Polar Luminous Intensity Distribution



Polar Luminous Intensity Distribution

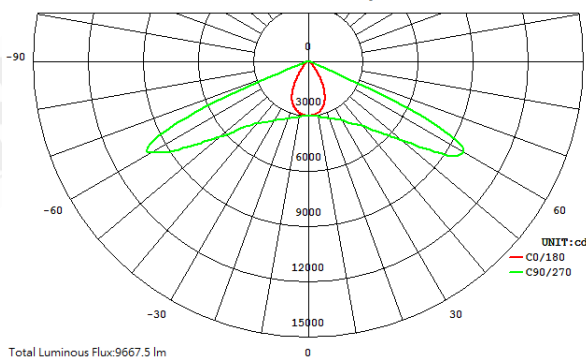
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Cartesian Coordinates Luminous Intensity Distribution

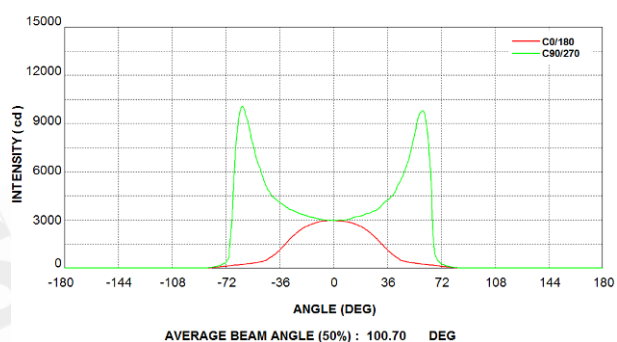
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Polar Luminous Intensity Distribution



Polar Luminous Intensity Distribution

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



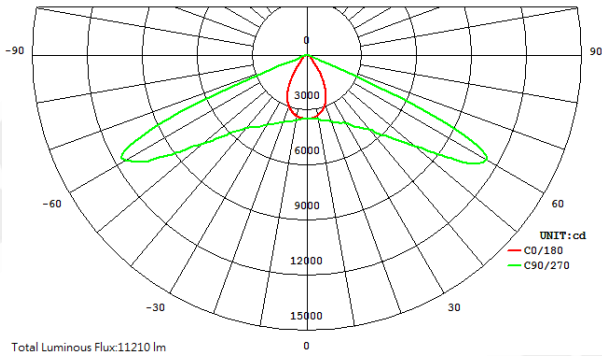
Cartesian Coordinates Luminous Intensity Distribution

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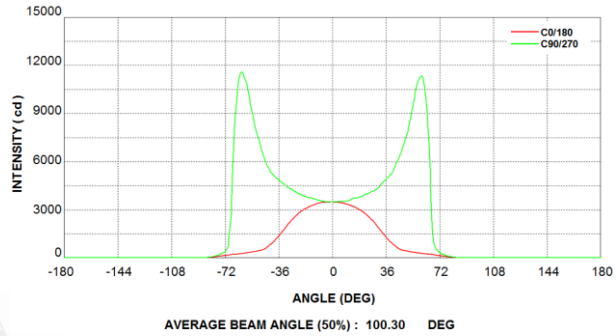
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Polar Luminous Intensity Distribution



Polar Luminous Intensity Distribution

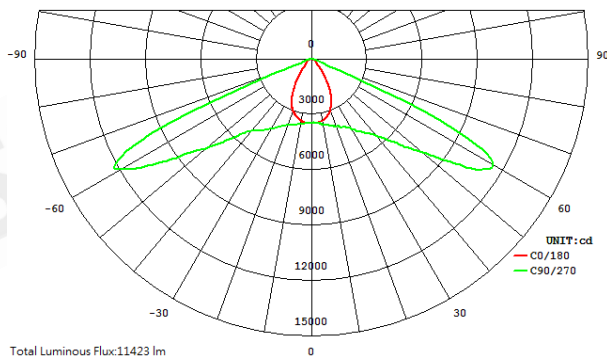
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Cartesian Coordinates Luminous Intensity Distribution

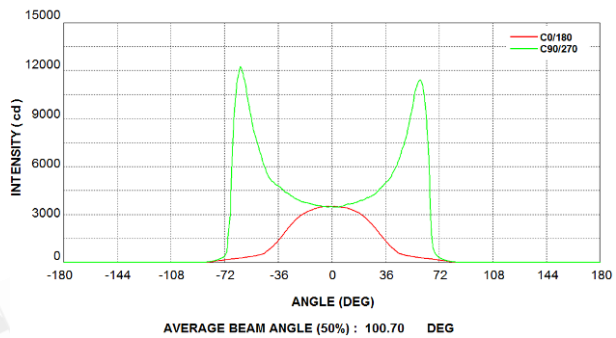
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Polar Luminous Intensity Distribution



Polar Luminous Intensity Distribution

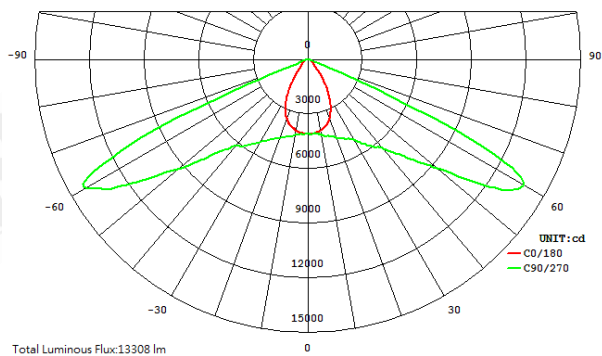
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Cartesian Coordinates Luminous Intensity Distribution

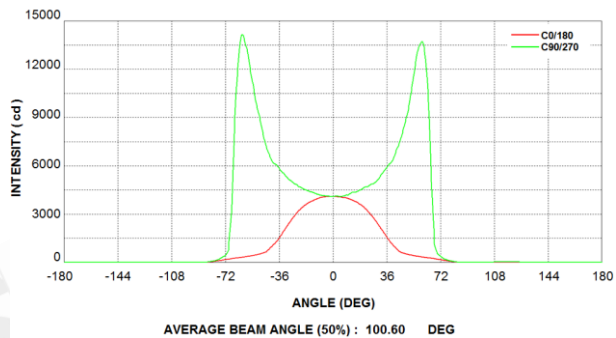
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Polar Luminous Intensity Distribution



Polar Luminous Intensity Distribution

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

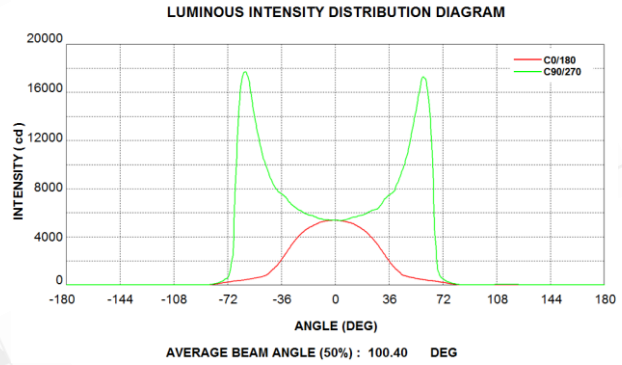
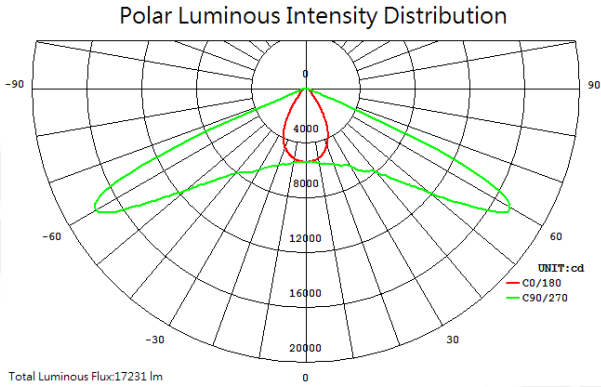


Cartesian Coordinates Luminous Intensity Distribution

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TW-PD1355011-D5



Polar Luminous Intensity Distribution

Cartesian Coordinates Luminous Intensity Distribution

B. Peak intensity & Beam angle

Model No.	Peak intensity (cd)	Beam angle (50%)(°)
TW-PD0365011-D5	5156.07 cd	100.4°
TW-PD0555011-D5	7115.01 cd	100.3°
TW-PD0725011-D5	10085.45 cd	100.7°
TW-PD0855011-D5	11602.60 cd	100.3°
TW-PD0905011-D5	12255.91 cd	100.7°
TW-PD1105011-D5	14157.57 cd	100.6°
TW-PD1355011-D5	17701.71 cd	100.4°

C. Optical Properties & Electrical Characteristics

Initial (0 h)								
S/N	Input Voltage	Input Current	Input Power	Luminous Flux	CCT	CRI(Ra)	SDCM	Luminous Efficacy
TW-PD0365011-D5	219.99	0.1897	39.858	4951.9	4881	71.7	3.06	124.2
TW-PD0555011-D5	219.99	0.2630	56.23	6738.5	4918	71.6	1.68	119.8
TW-PD0725011-D5	219.96	0.3555	74.26	9667.5	4925	72.2	1.38	130.2
TW-PD0855011-D5	220.04	0.4088	86.320	11210	4922	71.7	1.43	129.9
TW-PD0905011-D5	219.95	0.4264	90.25	11423	4913	71.6	1.95	126.6
TW-PD1105011-D5	219.96	0.5110	109.16	13308	4940	71.9	1.82	121.9
TW-PD1355011-D5	220.02	0.6377	135.45	17231	4927	71.9	1.16	127.2

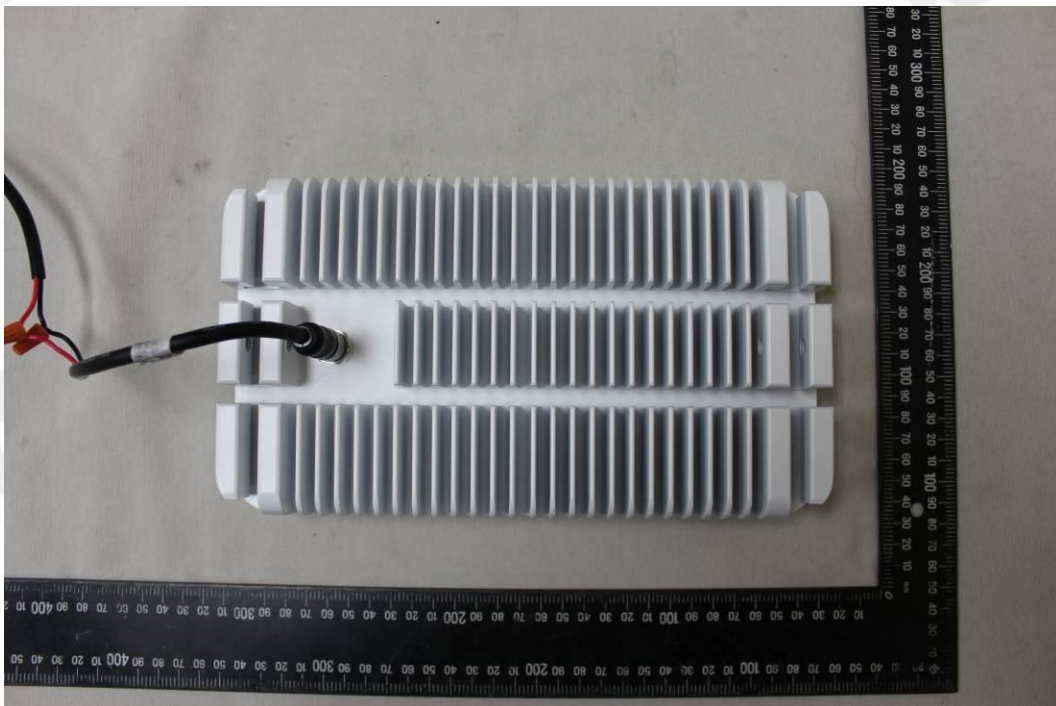
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III. Attachment Photos



TW-PD0365011-D5 Front View



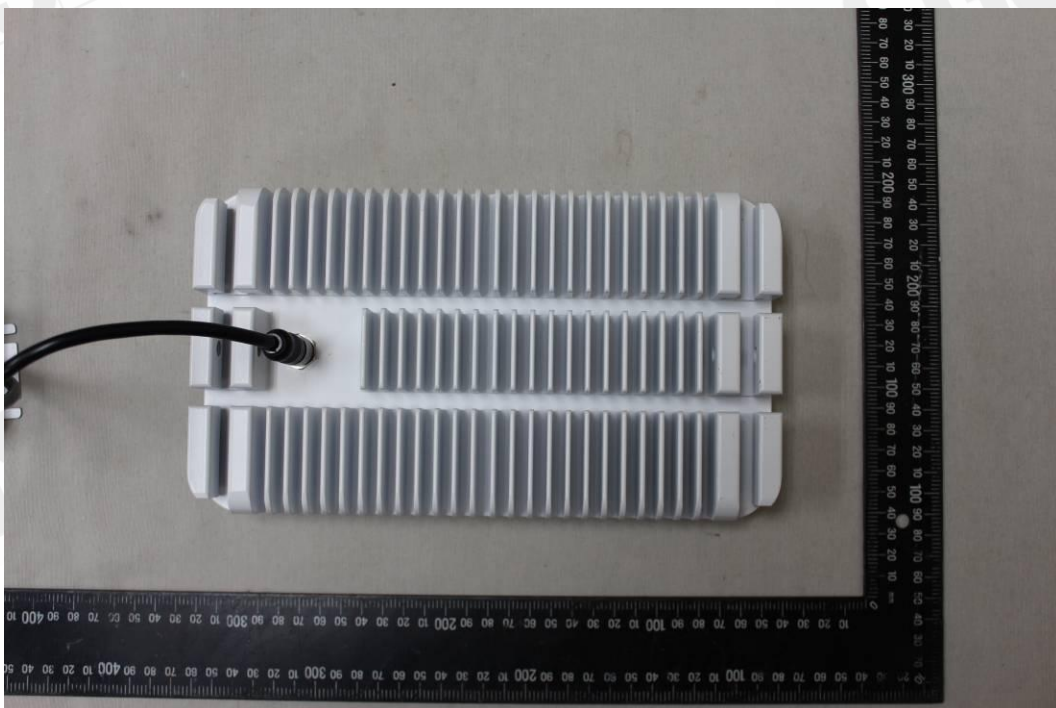
TW-PD0365011-D5 Back View

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TW-PD0555011-D5 Front View



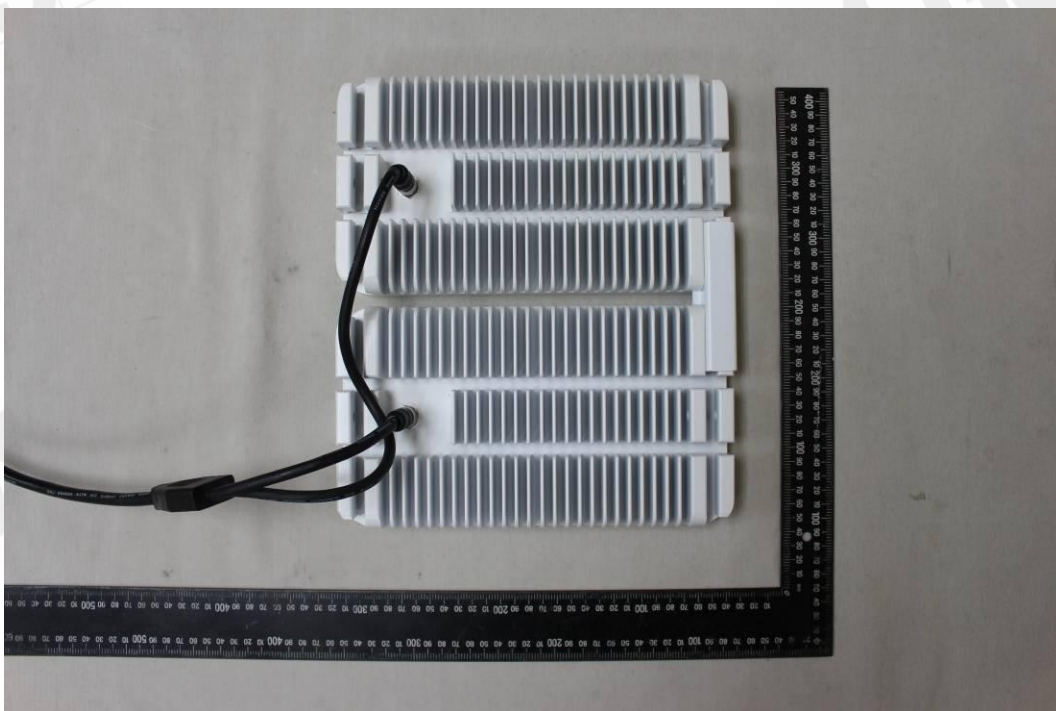
TW-PD0555011-D5 Back View

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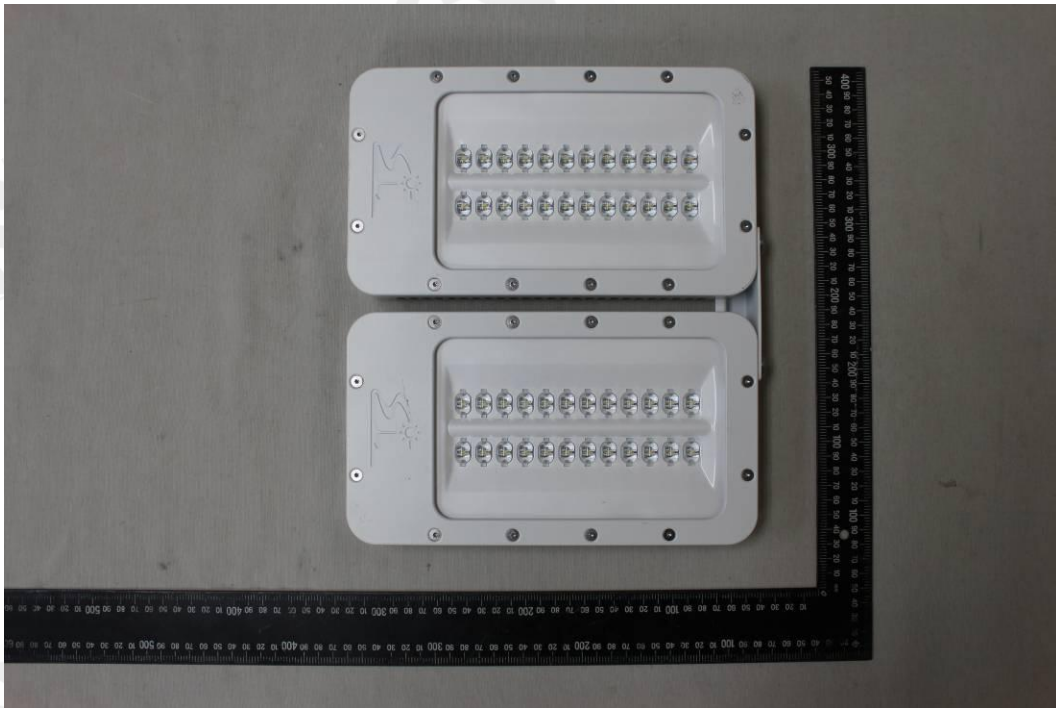
TW-PD0725011-D5 Front View



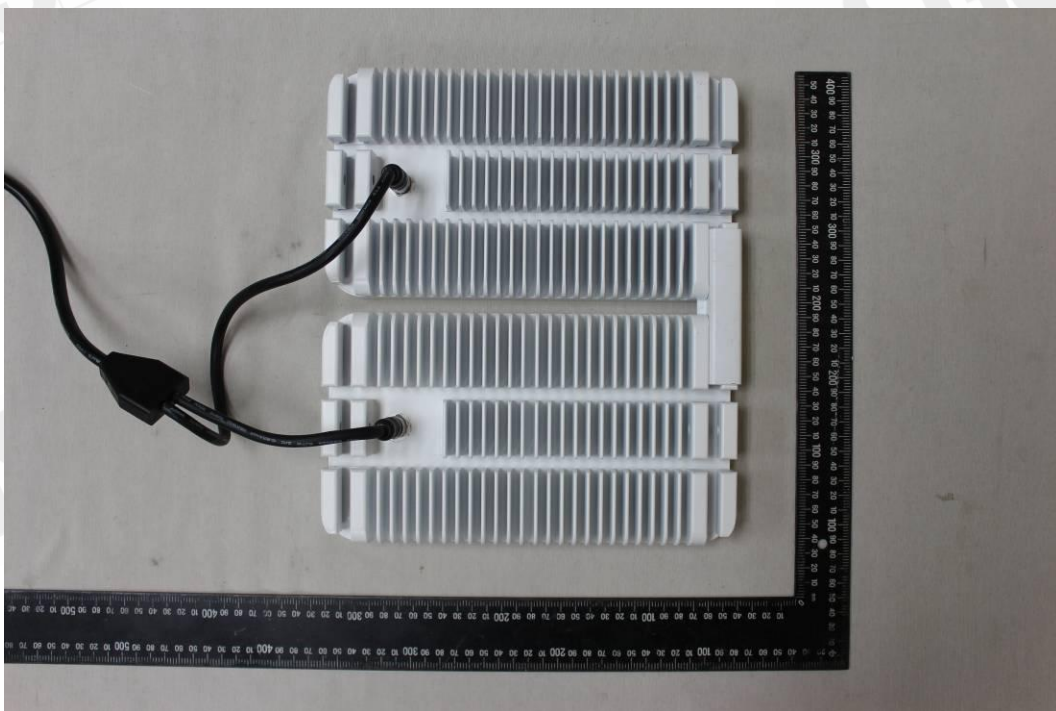
TW-PD0725011-D5 Back View

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TW-PD0855011-D5 Front View



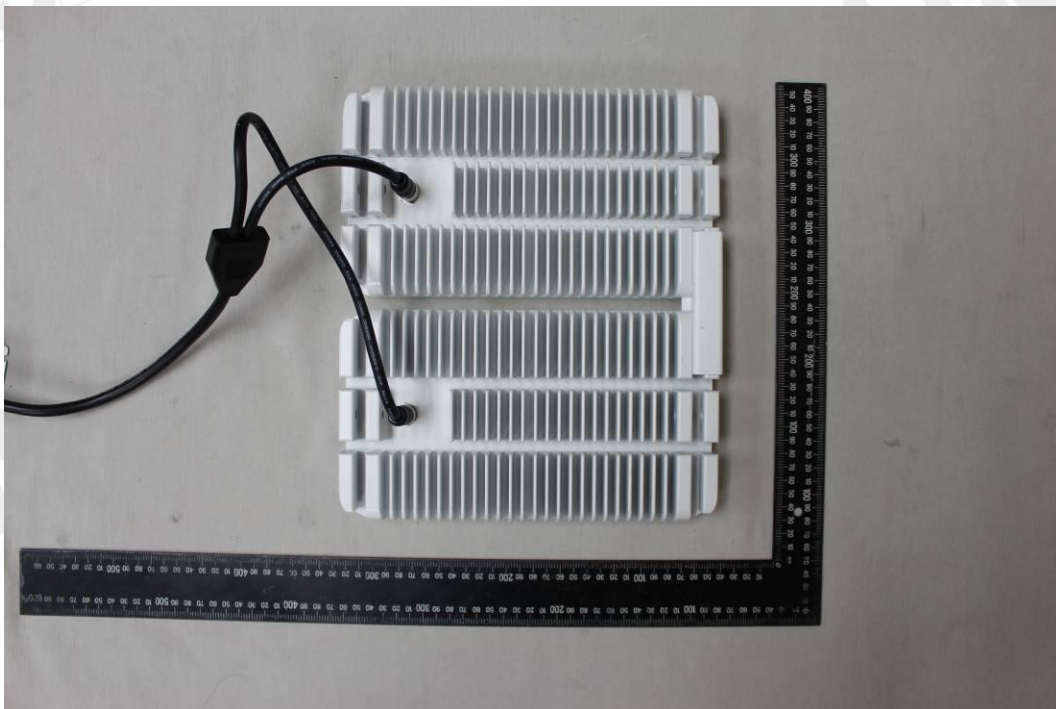
TW-PD0855011-D5 Back View

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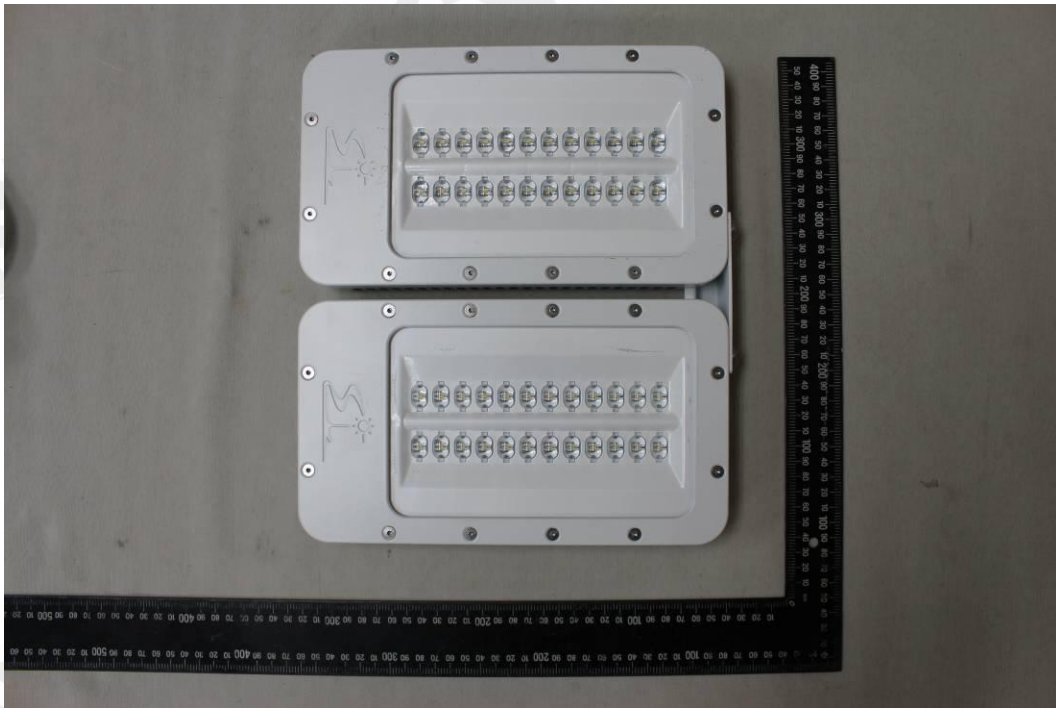
TW-PD0905011-D5 Front View



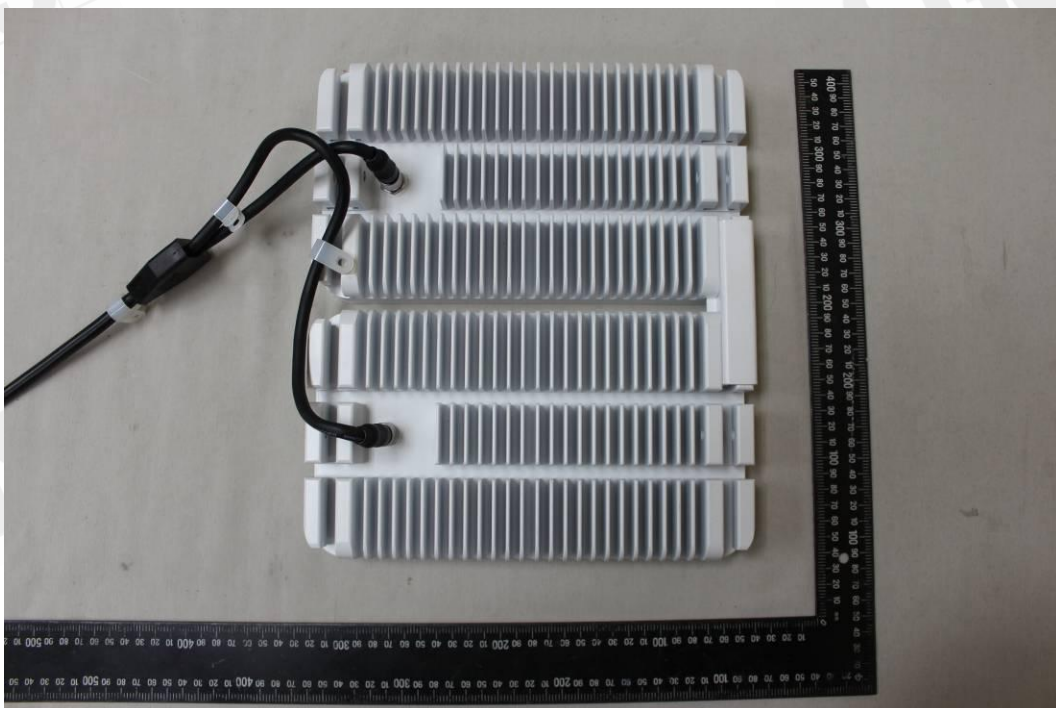
TW-PD0905011-D5 Back View

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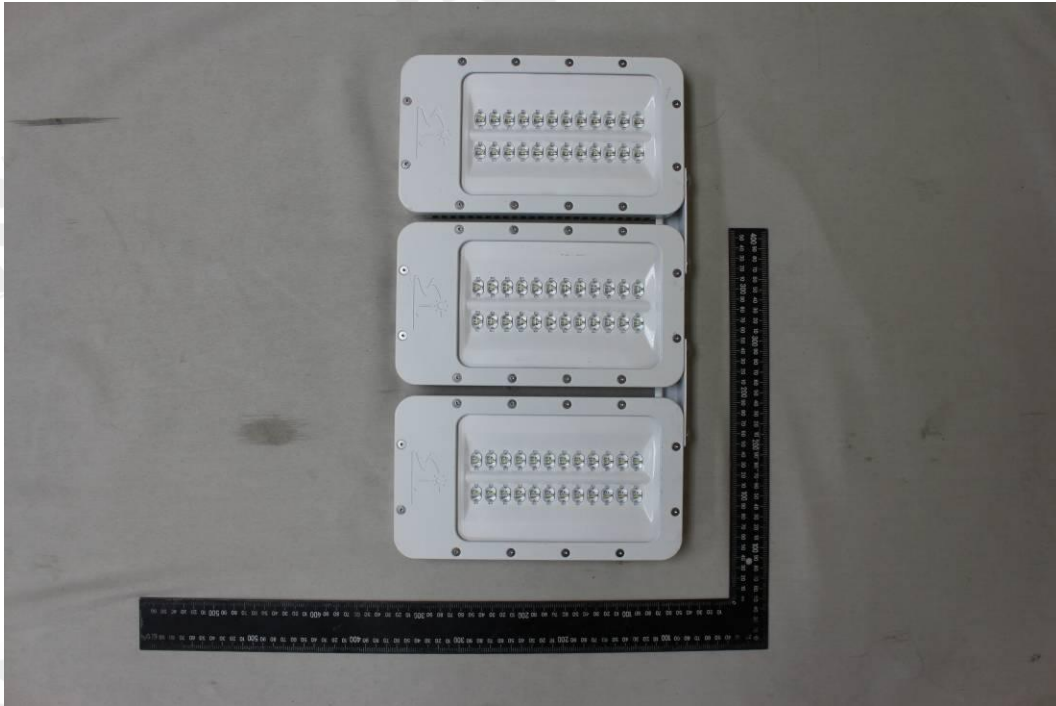
TW-PD1105011-D5 Front View



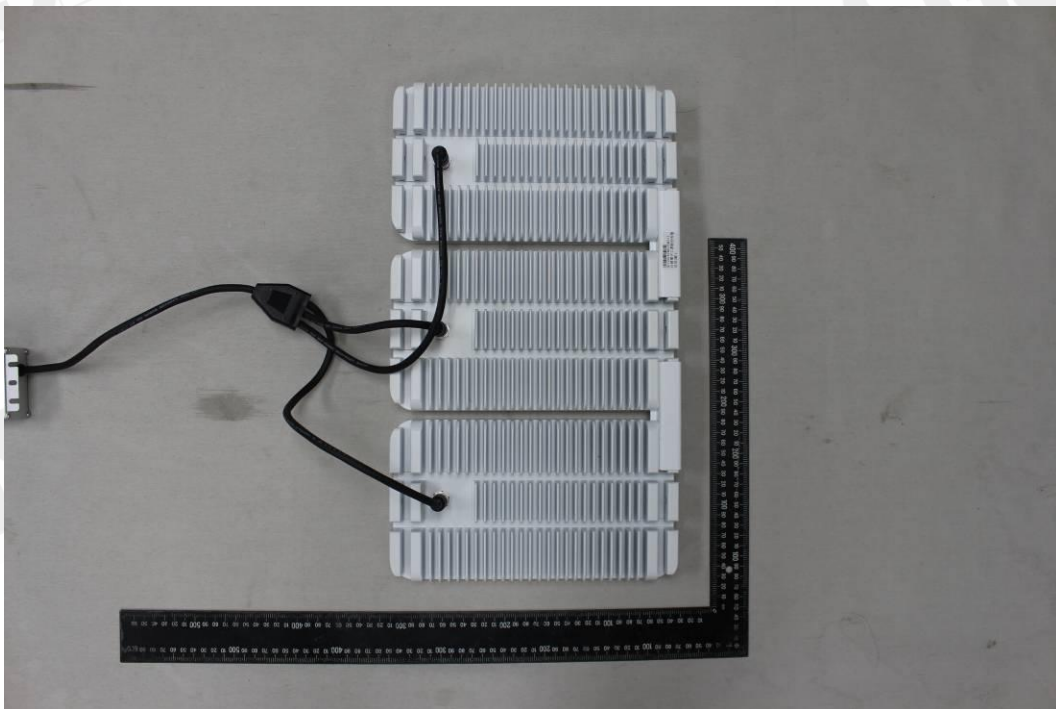
TW-PD1105011-D5 Back View

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TW-PD1355011-D5 Front View



TW-PD1355011-D5 Back View

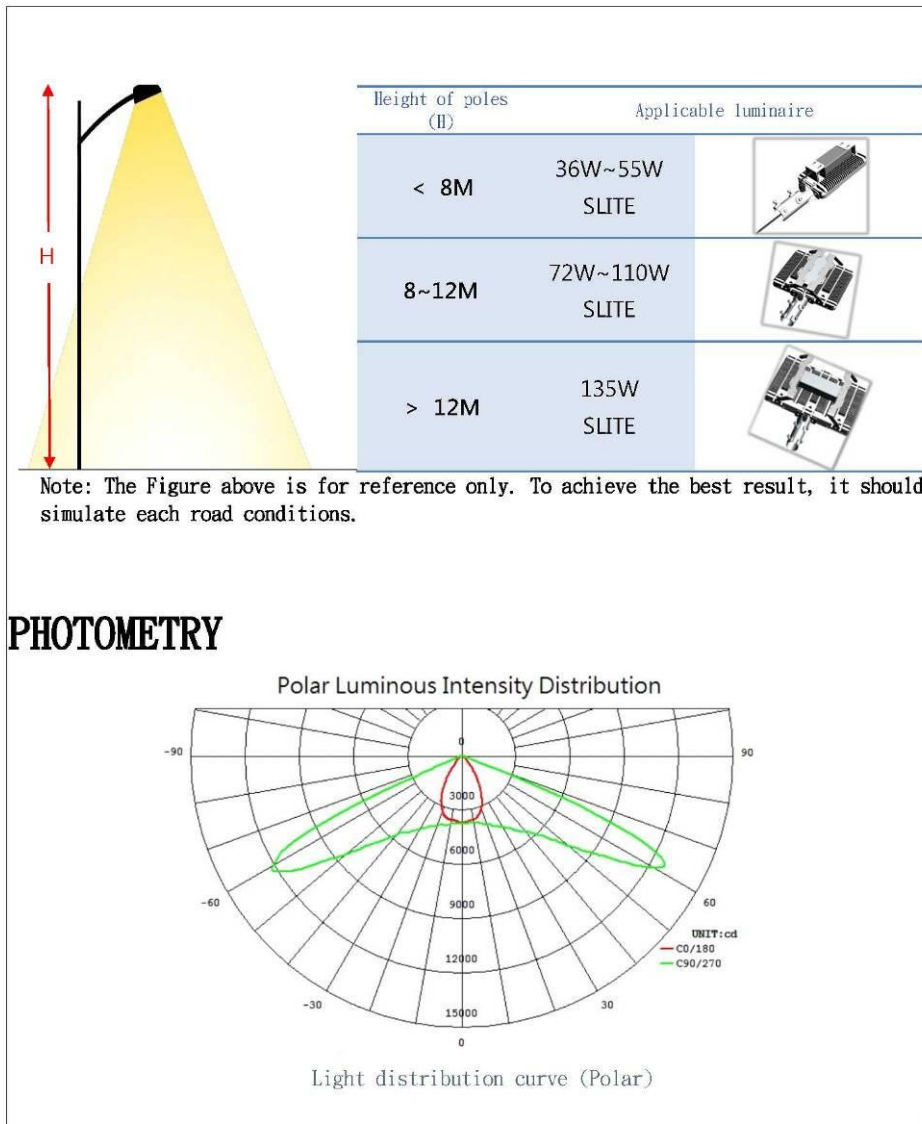
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IV. Product Specification

德威光電股份有限公司
Top Win Optoelectronics Corp.

Street Light - SLITE Series	File Number :	Edition : A0
	Formulate : Product Integration Dept.	Pages : 1/7



表單編號: QP-702-14 版次: A0

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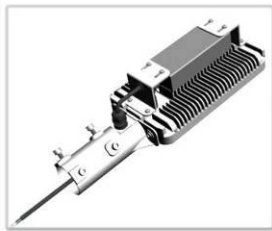
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Top Win Optoelectronics Corp.

Street Light - SLITE Series	File Number :	Edition : A0
	Formulate : Product Integration Dept.	Pages : 2/7

Specification

1 Module



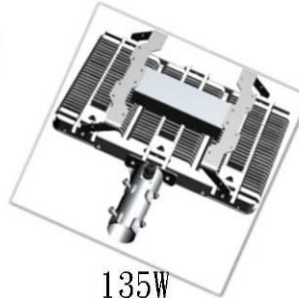
36W~55W

2 Module



72W~110W

3 Module



135W

Model number	Luminaire Wattage (W)	Luminous Flux (lm)	Luminaire Efficacy (lm/W)	Weight (kg)	Dimensions (cm)	EPA (cm ²)
TW-PD0365011-D5	36	4600	128	< 4.2	15*42*13	594
TW-PD0555011-D5	55	6700	122	< 4.2	15*42*13	594
TW-PD0725011-D5	72	9200	128	< 6.6	31*43*13	1150
TW-PD0855011-D5	85	10700	126	< 6.6	31*43*13	1150
TW-PD0905011-D5	90	11250	125	< 6.6	31*43*13	1150
TW-PD1105011-D5	110	13400	122	< 6.6	31*43*13	1150
TW-PD1355011-D5	135	16850	125	< 8.9	47*43*13	1687

Input Voltage	100-240VAC
Frequency	50/60Hz
Operating Temperature	-30°C ~ 50°C
Color Temperature	5000 K
CRI	Ra ≥ 70
Photometric Code	750/7'7'9
Categories of rated chromaticity coordinate values	F5000 (7', 7')
Lumen Maintenance Code	9
Case Material	AL 6063 T6
Ingress Protection	IP65
Certification	CE
Life	≥ 30,000 hrs (L70F10)

表單編號: QP-702-14 版次: A0

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德威光電股份有限公司
Top Win Optoelectronics Corp.

Street Light - SLITE Series	File Number :	Edition : A0
	Formulate : Product Integration Dept.	Pages : 3/7

Simulation for roadway lighting :

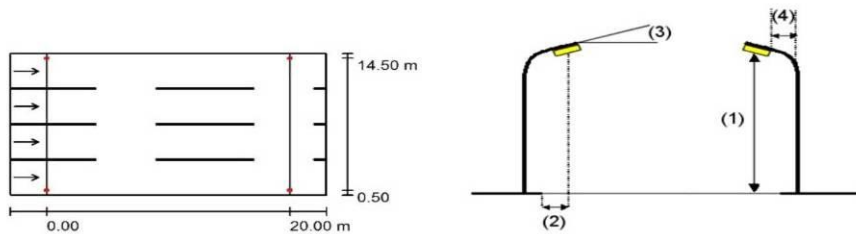
36~55W Street Light: (This is for reference, the simulation of actual roadway is principal.)

Street Profile

Roadway 1 (Width: 15.000 m, Number of lanes: 4, tarmac: R3, q0: 0.070)

Light loss factor: 0.80

Luminaire Arrangements



Luminaire	TW-PD0365011-D5	TW-PD0555011-D5
Luminous flux(Luminaire)	4600 lm	6700 lm
Luminaire Wattage	36 W	55 W
Arrangement	Double row, opposing	
Pole Distance	20 M	
Mounting Height	7 M	
Height	7 M	
Overhang	0.5 M	
Boom Angle	15°	
Boom Length	1 M	
E_{av} [lx]	19	27
E_{min} [lx]	12	18
E_{max} [lx]	23	34
$u0$	0.669	0.669
E_{min} / E_{max}	0.534	0.534

表單編號: QP-702-14 版次: A0

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德威光電股份有限公司
Top Win Optoelectronics Corp.

Street Light - SLITE Series	File Number :	Edition : A0
	Formulate : Product Integration Dept.	Pages : 4/7

72~110W Street Light: (This is for reference, the simulation of actual roadway is principal.)

Street Profile

Roadway 2 (Width: 7.500 m, Number of lanes: 2, tarmac: R3, q0: 0.070)
 Median 1 (Width: 1.000 m, Height: 0.000 m)
 Roadway 1 (Width: 7.500 m, Number of lanes: 2, tarmac: R3, q0: 0.070)

Light loss factor: 0.80

Luminaire Arrangements

Luminaire	TW-PD0725011-D5	TW-PD0855011-D5	TW-PD0905011-D5	TW-PD1105011-D5
Luminous flux(Luminaire)	9200 lm	10700 lm	11250 lm	13400 lm
Luminaire Wattage	72 W	85 W	90 W	110 W
Arrangement	on Median			
Pole Distance	35 M			
Mounting Height	12 M			
Height	12 M			
Overhang	1.5 M			
Boom Angle	15°			
Boom Length	2 M			
Roadway1 E _{av} [lx]	17	20	21	25
Roadway1 E _{in} [lx]	13	15	15	18
Roadway1 E _{max} [lx]	23	26	28	33
Roadway1 u ₀	0.747			
Roadway1 E _{in} / E _{max}	0.557			
Roadway2 E _{av} [lx]	17	20	21	25
Roadway2 E _{in} [lx]	13	15	15	18
Roadway2 E _{max} [lx]	23	26	28	33
Roadway2 u ₀	0.747			
Roadway2 E _{in} / E _{max}	0.557			

表單編號: QP-702-14 版次: A0

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Top Win Optoelectronics Corp.

Street Light - SLITE Series	File Number :	Edition : A0
	Formulate : Product Integration Dept.	Pages : 5/7

135W Street Light: (This is for reference, the simulation of actual roadway is principal.)

Street Profile

Roadway 2 (Width: 10.500 m, Number of lanes: 3, tarmac: R3, q0: 0.070)
 Median 1 (Width: 1.000 m, Height: 0.000 m)
 Roadway 1 (Width: 10.500 m, Number of lanes: 3, tarmac: R3, q0: 0.070)

Light loss factor: 0.80

Luminaire Arrangements

Luminaire	TW-PD1355011-D5
Luminous flux(Luminaire)	16850 lm
Luminaire Wattage	135 W
Arrangement	on Median
Pole Distance	35 M
Mounting Height	12 M
Height	12 M
Overhang	1.5 M
Boom Angle	15°
Boom Length	2 M
Roadway1 E _{av} [lx]	27
Roadway1 E _{min} [lx]	15
Roadway1 E _{max} [lx]	42
Roadway1 u0	0.55
Roadway1 E _{min} / E _{max}	0.363
Roadway2 E _{av} [lx]	27
Roadway2 E _{min} [lx]	15
Roadway2 E _{max} [lx]	42
Roadway2 u0	0.55
Roadway2 E _{min} / E _{max}	0.363

表單編號: QP-702-14 版次: A0

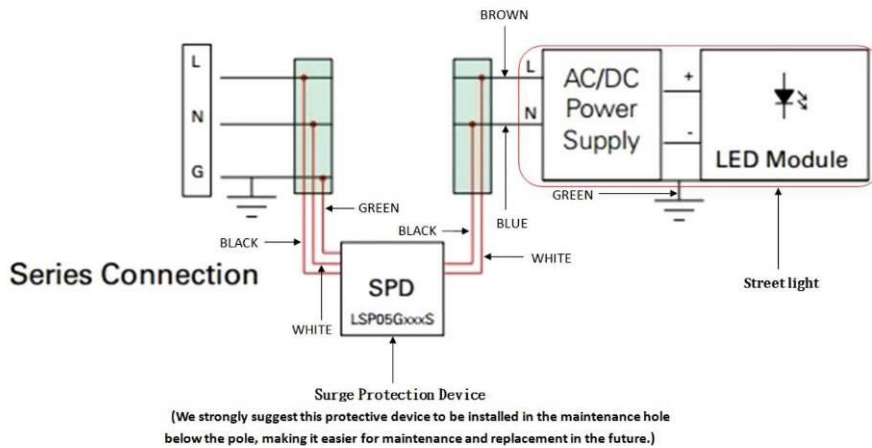
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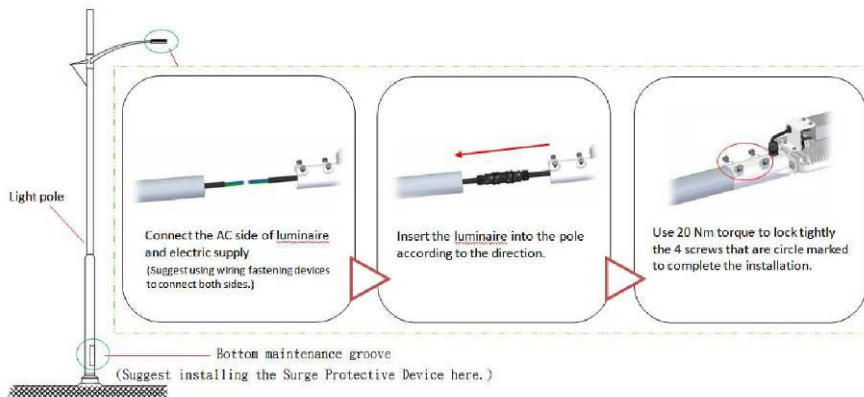
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Top Win Optoelectronics Corp.

Street Light - SLITE Series	File Number :	Edition : A0
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Wiring diagram:



Procedure:



Remark:

1. Depend on the different requirement of installed site, this series of luminaire could be installed up to 12 meters.
2. The LED Street light is provided with certified supply cord for supply connections. A recommended cord anchorage, Wieland Electric GmbH, Type RST20i3B, was tested with appliance.

表單編號: QP-702-14 版次: A0


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德威光電股份有限公司
Top Win Optoelectronics Corp.

Street Light - SLITE Series	File Number :	Edition : A0
	Formulate : Product Integration Dept.	Pages : 7/7

Warning:

- Operation condition: 100-240 VAC, -30°C-60°C.
- For your safety, please cut off the power before installation.
- Please ensure the installation location can bear more than 10 times weight of the luminaire.
- Put down gently when moving the luminaire.
- Please do not try to disassemble, repair or modify the luminaire or the product is not within the company warranty.
- If there aren't green or green-yellow ground wires on the luminaire, please connect the AC ground wire onto the lamp housing or the pole.
 Cautions: For the safety of the lamp, please make sure the grounding must be completed. Any damages caused by without following the installation instruction, the product is not within the company warranty.
- Do not scratch the wires when connecting.
- Installing Surge Protective Device could effectively reduce the risk of damage of LED luminaire from lightning strike. The wiring replacement is according to page 2 if damage caused. (consumables)
- The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 0.823m is not expected.
- The external flexible cable or cord of this luminaire cannot be replaced; if the cord is damaged, the luminaire shall be destroyed.
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
-  Don't touch the luminaire after powering up to avoid the risk of electric shock.
- The product is not within the scope of the warranty if there's damage caused by natural disasters, floods or earthquake.

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Maintenance

1. Switch off supply to luminaire.
2. Clean and wipe the luminaire enclosure.
3. Make functional test.

Replacement of lighting arrester

1. Switch off supply to luminaire.
2. Remove old surge protection device. Send to recycling centre.
3. Install new surge protection device (see Figure 1).
4. Make functional test.

Replacement of power supply (driver)

1. Switch off supply to luminaire.
2. Remove old power supply. Send to recycling centre.
3. Install new power supply (see Figure 1).
4. Make functional test.

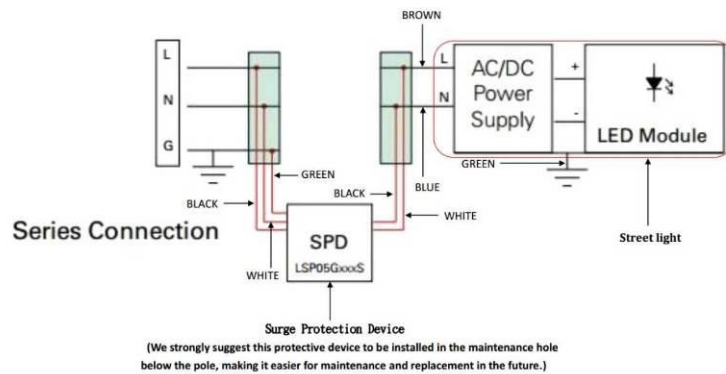


Figure 1

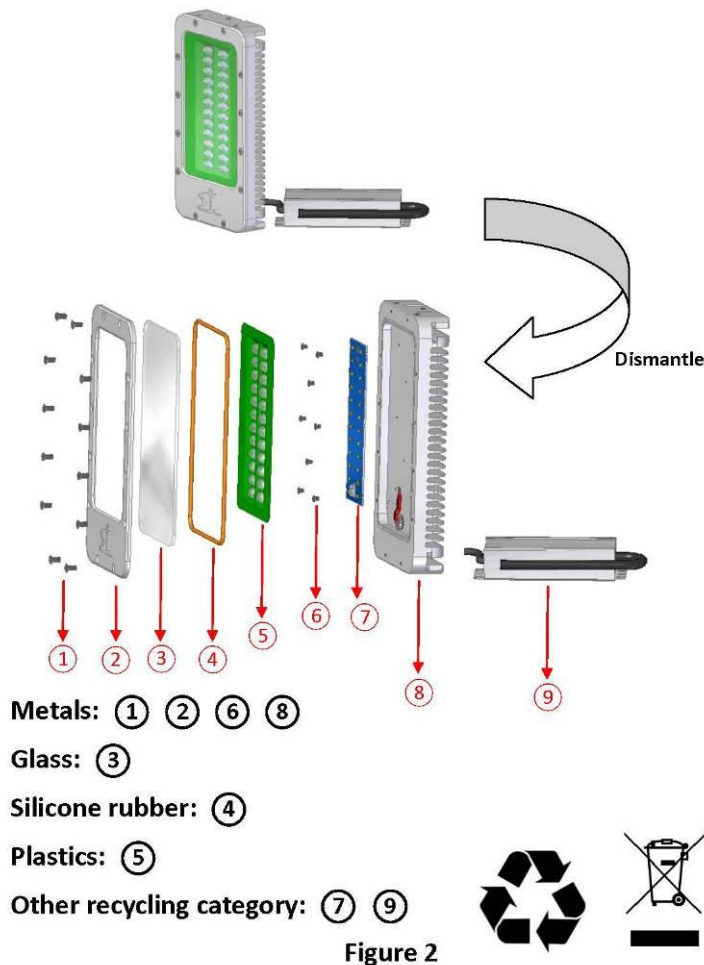
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Disassembly

Instruction for luminaire disposal

1. Switch off supply to luminaire.
2. Remove luminaire.
3. Sort assembly (see Figure 2) or take the luminaire to local WEEE recycling plant.
4. Take the sorted assembly to the WEEE recycling plant.



Note: The removed assembly has to be recycled to WEEE recycling plant, must not to throw into rubbish bin.

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V. Label

1.Product name: LED Street Lighting
 2.Product number: TW-PD0365011-D5
 3.Input rated voltage: 100-240Vac
 4.Input rated frequency: 50/60Hz
 5.Input rated current: 0.36A-0.15A
 6.Input rated power: 36W
 7.Operating temperature: $t_a=60^{\circ}\text{C}$
 8.Producer: Top Win Optoelectronics Corp.
 9.Date code:
 10.Luminaire :IP66

Connecting instruction



Brown	Line
Blue	Neutral
Yellow-Green	Ground

1.Product name: LED Street Lighting
 2.Product number: TW-PD0555011-D5
 3.Input rated voltage: 100-240Vac
 4.Input rated frequency: 50/60Hz
 5.Input rated current: 0.55A-0.23A
 6.Input rated power: 55W
 7.Operating temperature: $t_a=60^{\circ}\text{C}$
 8.Producer: Top Win Optoelectronics Corp.
 9.Date code:
 10.Luminaire :IP66

Connecting instruction



Brown	Line
Blue	Neutral
Yellow-Green	Ground

1.Product name: LED Street Lighting
 2.Product number: TW-PD0725011-D5
 3.Input rated voltage: 100-240Vac
 4.Input rated frequency: 50/60Hz
 5.Input rated current: 0.72A-0.30A
 6.Input rated power: 72W
 7.Operating temperature: $t_a=60^{\circ}\text{C}$
 8.Producer: Top Win Optoelectronics Corp.
 9.Date code:
 10.Luminaire :IP66

Connecting instruction



Brown	Line
Blue	Neutral
Yellow-Green	Ground

1.Product name: LED Street Lighting
 2.Product number: TW-PD0855011-D5
 3.Input rated voltage: 100-240Vac
 4.Input rated frequency: 50/60Hz
 5.Input rated current: 0.85A-0.35A
 6.Input rated power: 85W
 7.Operating temperature: $t_a=60^{\circ}\text{C}$
 8.Producer: Top Win Optoelectronics Corp.
 9.Date code:
 10.Luminaire :IP66

Connecting instruction



Brown	Line
Blue	Neutral
Yellow-Green	Ground

1.Product name: LED Street Lighting
 2.Product number: TW-PD0905011-D5
 3.Input rated voltage: 100-240Vac
 4.Input rated frequency: 50/60Hz
 5.Input rated current: 0.90A-0.38A
 6.Input rated power: 90W
 7.Operating temperature: $t_a=60^{\circ}\text{C}$
 8.Producer: Top Win Optoelectronics Corp.
 9.Date code:
 10.Luminaire :IP66



Connecting instruction



Brown	Line
Blue	Neutral
Yellow-Green	Ground

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1. Product name: LED Street Lighting	 <table border="1"> <tr><td>Brown</td><td>Line</td></tr> <tr><td>Blue</td><td>Neutral</td></tr> <tr><td>Yellow-Green</td><td>Ground</td></tr> </table>	Brown	Line	Blue	Neutral	Yellow-Green	Ground
Brown		Line					
Blue		Neutral					
Yellow-Green		Ground					
2. Product number: TW-PD1105011-D5							
3. Input rated voltage: 100-240Vac							
4. Input rated frequency: 50/60Hz							
5. Input rated current: 1.10A-0.46A							
6. Input rated power: 110W							
7. Operating temperature: ta=60°C							
8. Producer: Top Win Optoelectronics Corp.							
9. Date code:							
10. Luminaire :IP66							
							

1. Product name: LED Street Lighting	 <table border="1"> <tr><td>Brown</td><td>Line</td></tr> <tr><td>Blue</td><td>Neutral</td></tr> <tr><td>Yellow-Green</td><td>Ground</td></tr> </table>	Brown	Line	Blue	Neutral	Yellow-Green	Ground
Brown		Line					
Blue		Neutral					
Yellow-Green		Ground					
2. Product number: TW-PD1355011-D5							
3. Input rated voltage: 100-240Vac							
4. Input rated frequency: 50/60Hz							
5. Input rated current: 1.35A-0.56A							
6. Input rated power: 135W							
7. Operating temperature: ta=60°C							
8. Producer: Top Win Optoelectronics Corp.							
9. Date code:							
10. Luminaire :IP66							
							

- End of Report -

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