

LED STREET LIGHT

150W/200W/250W

specification

PRODUCTS NAME :	LED STREET LIGHT
MODEL NO. :	NX-ST9 150W-200W-250W
SPECIFICATION :	Automatic Voltage Protection System AC120 - 270V / 50/60Hz
WORKING TEMP. :	-40 ~ +55 (°C)
POWER FACTOR :	> 0.95
POWER :	150W / 200W / 250W
CRI (ra) :	>80
HOUSING COLOR :	Gray Color
LIGHT SOURCE :	IP68 LED 5050 SANAN Chip
Driver :	IP67, Input Voltage: 120-277V, 50/60Hz ZH POWER
Surge Protective Device :	Input Voltage: 100-277V, IP67, 10KV
PHOTOCELL :	120-277VAC, 50/60Hz, 1000W Tungsten, 1200VA ST. Ballast
LUMEN :	165 lm/W
LIFE TIME :	50,000 hrs
MATERIAL :	Die-cast Aluminum Housing 3mm with integrated heat sink.
BEAM ANGLE :	Type II
IP / IK :	IP66 / IK08
WARRANTY :	5years

Color Temperature:

3000K - 4000K - 5700K



Ref. Certif. No.

NL-118373

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	Independent LED driver
Name and address of the applicant	Guangdong Zhihe Electronic Technology Co., LTD Room 1202, Building 8, Fenggang Tian'an Digital City, No. 208 Fenggang Segment, Dongshen Road, Fenggang Town, 523000, Dongguan, Guangdong China
Name and address of the manufacturer	Guangdong Zhihe Electronic Technology Co., LTD Room 1202, Building 8, Fenggang Tian'an Digital City, No. 208 Fenggang Segment, Dongshen Road, Fenggang Town, 523000, Dongguan, Guangdong China
Name and address of the factory	Guangdong Zhihe Electronic Technology Co., LTD Room 1202, Building 8, Fenggang Tian'an Digital City, No. 208 Fenggang Segment, Dongshen Road, Fenggang Town, 523000, Dongguan, Guangdong China
<i>When more than one factory</i>	<input type="checkbox"/> Additional information on page 2
Ratings and principal characteristics	Product data Ratings: 120-277 V, 50/60 Hz, class I, tc: 90 °C, IP67, constant current type, other information sees model list of "General product information" of test report 120-200 V: ta: 45 °C; 200-277 V: ta: 55 °C
Trademark / Brand (if any)	 ZH POWER
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	ZH-FVP100R-260, ZH-FVP100R-260B, ZH-FVP150R-260, ZH-FVP150R-260B, ZH-FVP200R-260, ZH-FVP200R-260B, ZH-FVP240R-260, ZH-FVP240R-260B, ZH-FVP30E-150, ZH-FVP320R-260, ZH-FVP320R-260B, ZH-FVP50E-150, ZH-FVP50E-150B and ZH-FVP30E-150B
Additional information	<input type="checkbox"/> Additional information on page 2
A sample of the product was tested and found to be in conformity with	IEC 61347-1:2015, IEC 61347-1:2015/AMD1:2017, IEC 61347-2-13:2014 and IEC 61347-2-13:2014/AMD1:2016

This CB Test Certificate is issued by the National Certification Body

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
Netherlands



Signature: Rosa Zhou

Date: 2025-07-17

شهادة - 증명서 - 證明書 - Сертификат - Certificat - Certificate

CERTIFICATE



No. 0P241126.GOTSN08

Test Report / Technical Construction File no. TLGD24110763853, TEGD24110763854

Certificate's Holder: Guangdong Ojun Technology Co., Ltd
No 7 Nanbian Rd, Changjiao Xingtan, Foshan, Guangdong,
528325 China

Certification ECM Mark



Product: Photocontrols, Plug-in, Locking Type
Model(s): OJ-M715-B, OJ-M715-BS

Verification to: Standard:
EN 60669-1:2018, EN IEC 60669-2-1:2022+A11:2022,
EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021

related to CE Directive(s):
2014/35/EU (Low Voltage)
2014/30/EU (Electromagnetic Compatibility)

Remark:

The manufacturer has voluntarily decided to submit its documents concerning the above-mentioned product for verification. Ente Certificazione Macchine confirms that the documentation made available and immediately returned to it, as containing sensitive data, meets the essential requirements of the above-mentioned directive/standard. The verification activity carried out exclusively concerned the technical documentation and no verification was carried out on the product. This document cannot replace the EC Declaration of Conformity. This document was issued in accordance with regulation RGVOL01 published on the website of www.entecerma.it and concerning voluntary certifications with a non-notified procedure.

Issuance date: 26 November 2024

Expiry date: 25 November 2029

For online check:



Approver
Ente Certificazione Macchine
Legal Representative
Luca Bedonni



Ente Certificazione Macchine Srl

Via Ca' Bella, 243 - Loc. Castello di Serravalle - 40053 Valsamoggia (BO) - ITALY
☎ +39 051 6705141 📠 +39 051 6705156 ✉ info@entecerma.it 🌐 www.entecerma.it





Zertifikat

Certificate

Zertifikat Nr. *Certificate No.*
R 50516300

Blatt *Sheet*
0001

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Ausstellungsdatum	<i>Date of Issue</i>
W.W.W	01-SDW-CN21EXHZ 001	31.08.2021	(day/mo/yr)

Genehmigungsinhaber <i>License Holder</i>	Fertigungsstätte <i>Manufacturing Plant</i>
Guangdong ZP Lightning Protection Technology Co., Ltd. Room 1501, No.5, Songhu Zhigu R & D center, No.1 renju Road, Liaobu Town, dongguan City, Guangdong P.R. China	Guangdong ZP Lightning Protection Technology Co., Ltd. Room 1501, No.5, Songhu Zhigu R & D center, No.1 renju Road, Liaobu Town, dongguan City, Guangdong P.R. China

Prüfzeichen *Test Mark*



Type Approved
Safety
Regular Production
Surveillance

www.tuv.com
ID 1111244075

Geprüft nach *Tested acc. to*
EN 61643-11:2012+A11
IEC 61643-11:2011

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Surge Protector Surge Protective Device (SPD)

Type Designation	: 1) ZP-LED-P10D 2) ZP-LED-T10D 3) ZP-LED-S10D	7
Max. Continuous Operating Voltage(Uc)	: AC 320V,50/60Hz	
Nominal discharge current(In)	: 5kA	
Open Circuit Voltage(Uoc)	: 10kV	
Prospective Short-circuit Current(Iscpr)	: 300A	
Number of Ports	: One	
Voltage Protective Level(U _p)	: ≤1,3kV (L-N and L/N-GND)	
SPD Type	: Type2(Class II) Type3(Class III)	
Power System	: TN	
Protection Degree	: 1)3) IP67; 2) IP20 after installation	
Location Category	: Indoor	
Ambient Temperature	: -40°C-+85°C	
Altitude	: +2 000 m to -500 m	

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ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfgrundlagen. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht.
This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety

Zertifizierungsstelle



Kenny Shi

TÜVRheinland[®]**CERTIFICATE****of Conformity
Low Voltage Directive 2014/35/EU****Registration No.:** AN 50551702 0001**Report No.:** CN21EXHZ 002**Holder:** Guangdong ZP Lightning Protection
Technology Co., Ltd.
Room 1501, No.5, Songhu Zhigu R & D
center, No.1 renju Road,
Liaobu Town, dongguan City,
Guangdong
P.R. China**Product:** Surge Protector
Surge Protective Device (SPD)**Identification:** Type Designation : ZP-LED-P10D
ZP-LED-T10D
ZP-LED-S10D
Serial No.: Engineering Sample
Remark : Refer to test report CN21EXHZ 001-002
for details.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

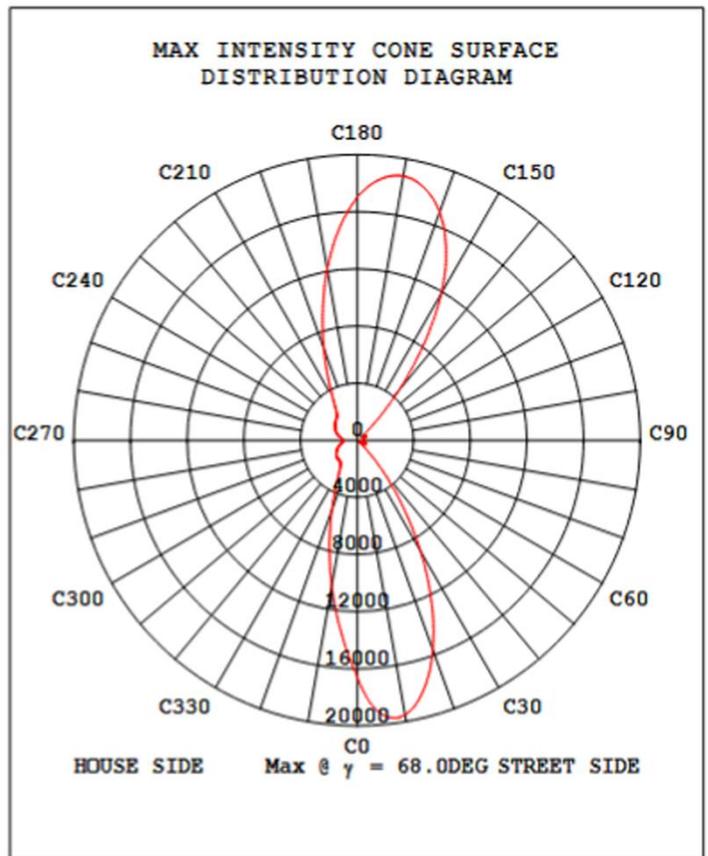
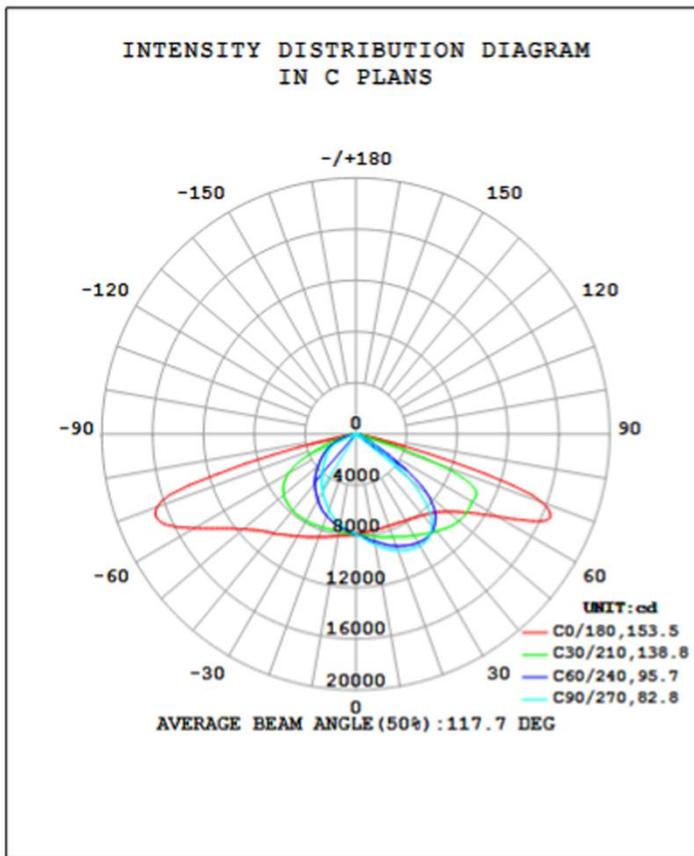
Date 18.07.2022**TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg****CE** The CE marking may be used if all relevant and effective EC Directives are complied with.

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.43V I:0.9175A P:196.03W PF:0.9693 Freq:50.01Hz		
UTHdi:0.35% ITHDi:9.59% KDisp:0.9744 Lamp Flux:32573.9x1 lm		
NAME: NX-ST9 NEXLEDS	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:NEXTLITE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax (cd)	18303	η street_up (%)	0.0
NOMINAL POWER (W)	200	LOR (%)	100.0	η street_down (%)	59.6
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	32574	η house_up (%)	0.0
NOMINAL FLUX (lm)	32573.9	MAXIMUM @ (C, γ)	165,68.0	η house_down (%)	40.4
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	220	η down (%)	100.0	SLI	22.552

Eff: 166.17 lm/W

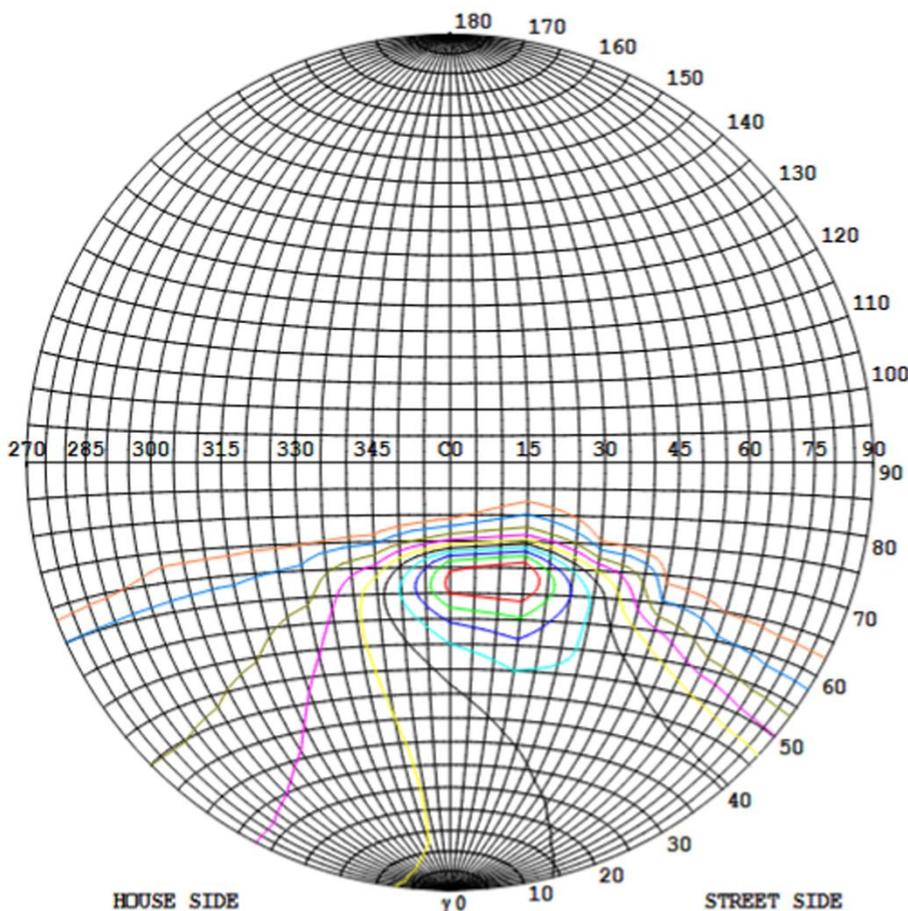


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 29 October 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.488
 Humidity: 65.0%
 Test Distance: 12.800m [K=1.0000]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.43V I:0.9175A P:196.03W PF:0.9693 Freq:50.01Hz		
UTHDi:0.35% ITHDi:9.59% KDisp:0.9744 Lamp Flux:32573.9x1 lm		
NAME: NX-ST9 NEXLEDS	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: NEXTLITE	SUR.:	Shielding Angle:



Classification:

IES:Type II - Medium
 CIE:Narrow - Intermediate
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:71.76cd/klm
 Max.At90:2.506cd/klm
 Max.80-90:71.76cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	18303
90%	16473
80%	14642
70%	12812
60%	10982
50%	9151
40%	7321
30%	5491
20%	3661
10%	1830
5%	915

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:29 October 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:12.800m [K=1.0000]
 Remarks:



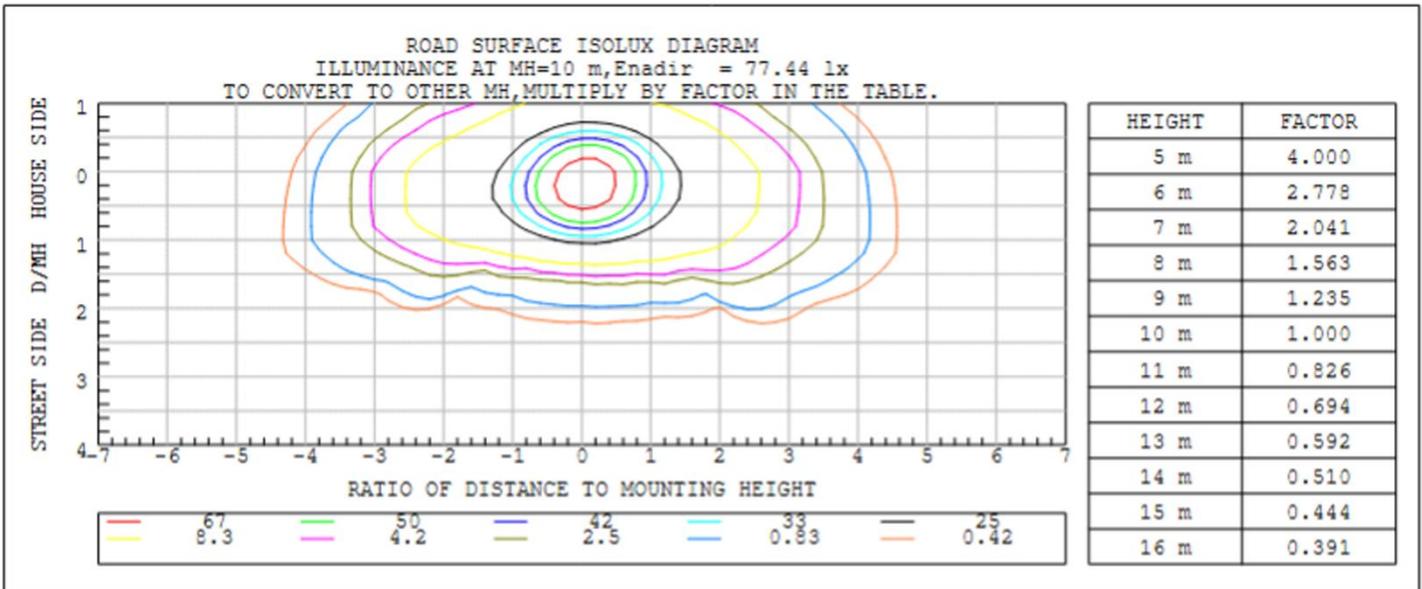
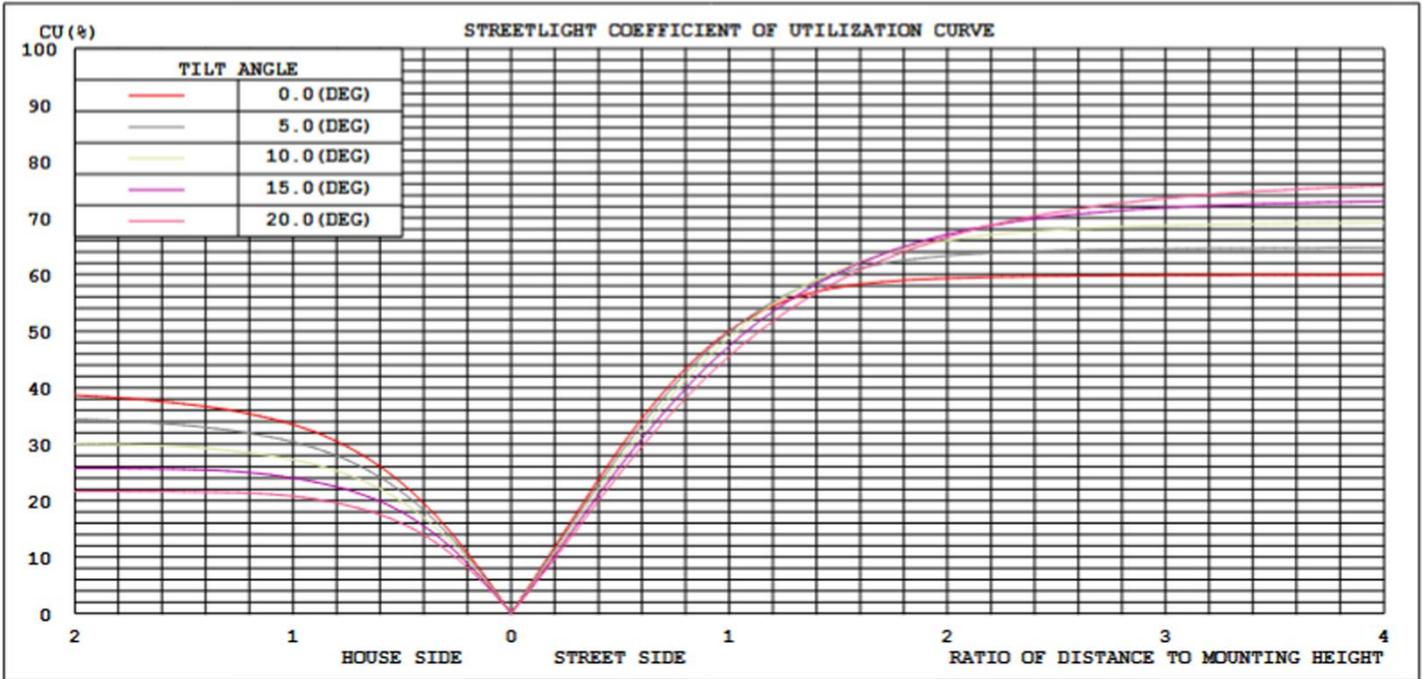
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NEXTLITE PRODUCTS



NEXTLITE

**COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM**



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 29 October 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity: 65.0%
Test Distance: 12.800m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:220.43V I:0.9175A P:196.03W PF:0.9693 Freq:50.01Hz		
UTHDi:0.35% ITHDi:9.59% KDisp:0.9744 Lamp Flux:32573.9x1 lm		
NAME: NX-ST9 NEXLEDS	TYPE: LED STREET LIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: NEXTLITE	SUR.:	Shielding Angle:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	☉ zone	☉ total	lum, lamp
10	767.1	833.7	874.7	865.2	809.3	753.0	716.9	724.3	0- 10	751.6	751.6	2.31,2.31
20	763.4	900.2	967.0	964.5	856.3	725.0	628.4	667.9	10- 20	2275	3026	9.29,9.29
30	780.3	959.3	1008	1049	922.3	684.3	523.1	603.4	20- 30	3770	6796	20.9,20.9
40	826.0	992.0	937.0	1100	1012	618.5	415.3	527.3	30- 40	5115	11911	36.6,36.6
50	942.3	920.4	561.0	1056	1156	510.3	321.2	426.7	40- 50	6043	17954	55.1,55.1
60	1292	574.8	135.5	761.3	1469	340.4	243.7	289.2	50- 60	6172	24127	74.1,74.1
70	1563	68.31	34.43	116.4	1667	171.0	47.60	155.1	60- 70	5806	29932	91.9,91.9
80	59.93	18.91	14.64	18.74	100.00	24.33	13.06	19.20	70- 80	2464	32397	99.5,99.5
90	6.536	2.731	1.553	3.791	8.102	3.560	1.430	3.602	80- 90	177.2	32574	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

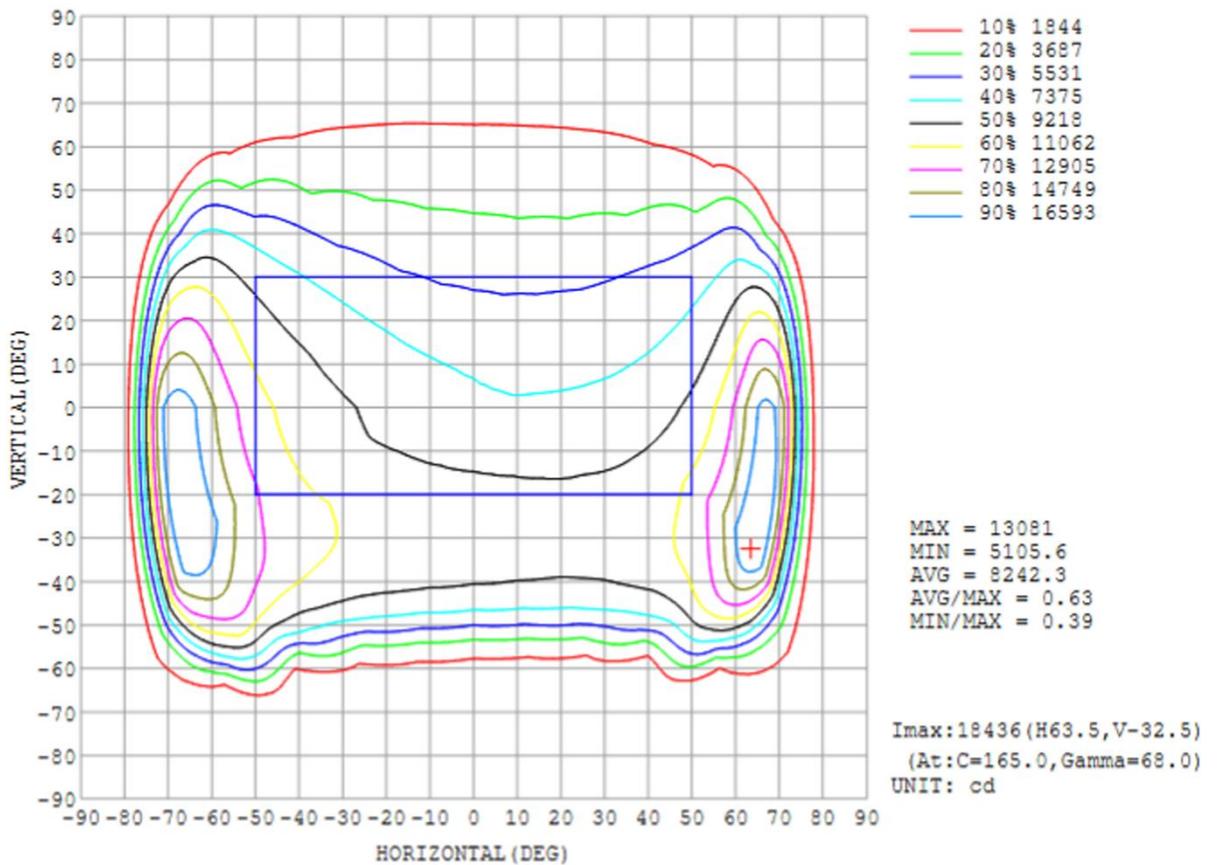
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:29 October 2025

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:12.800m [K=1.0000]
 Remarks:



ISOCANDELA DIAGRAM

Test:U:220.43V I:0.9175A P:196.03W PF:0.9693 Freq:50.01Hz		
UTHDi:0.35% ITHDi:9.59% KDisp:0.9744 Lamp Flux:32573.9x1 lm		
NAME: NX-ST9 NEXLEDS	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: NEXTLITE	SUR.:	Shielding Angle:

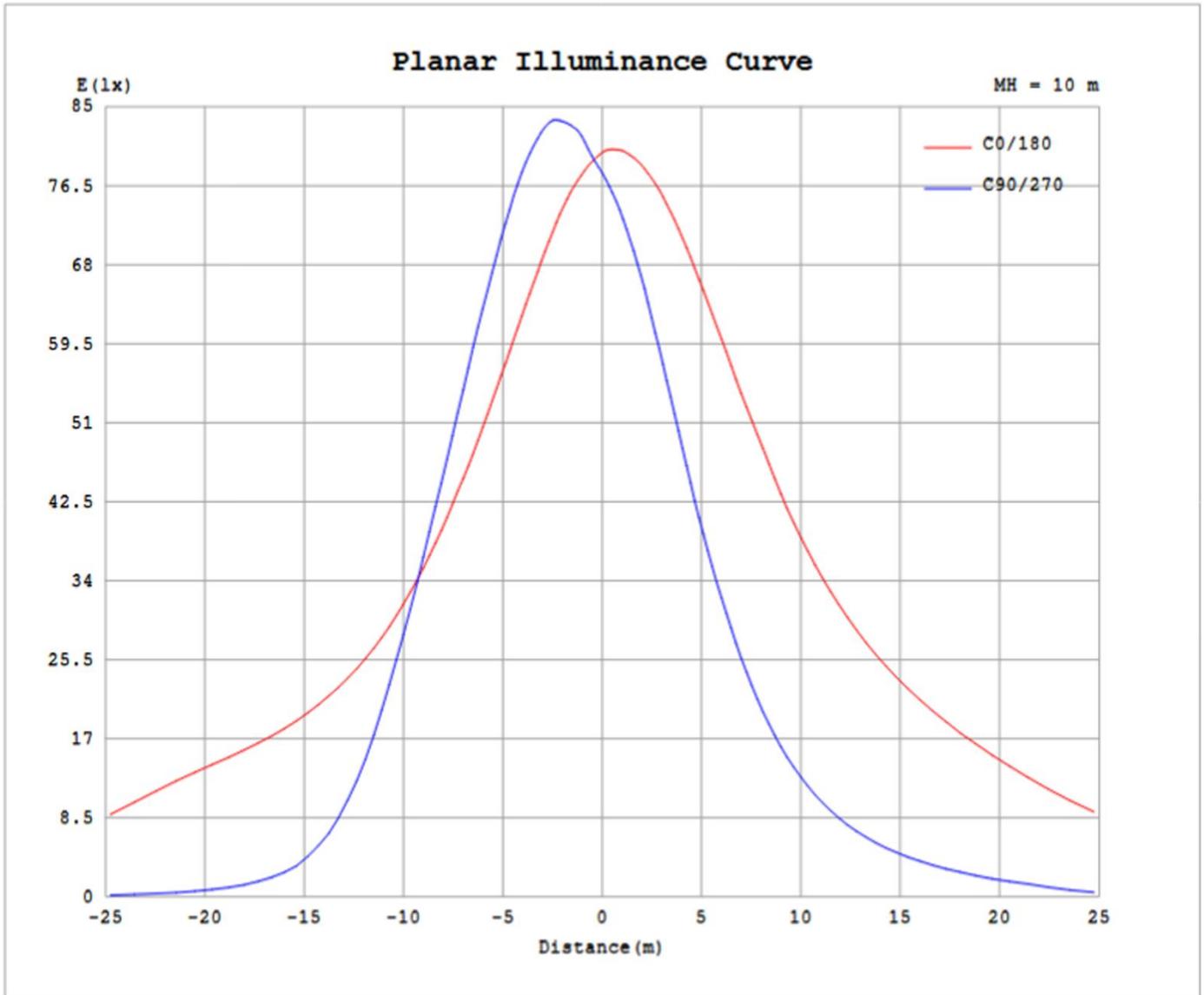


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:29 October 2025

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 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:12.800m [K=1.0000]
 Remarks:



Planar Illuminance Curve



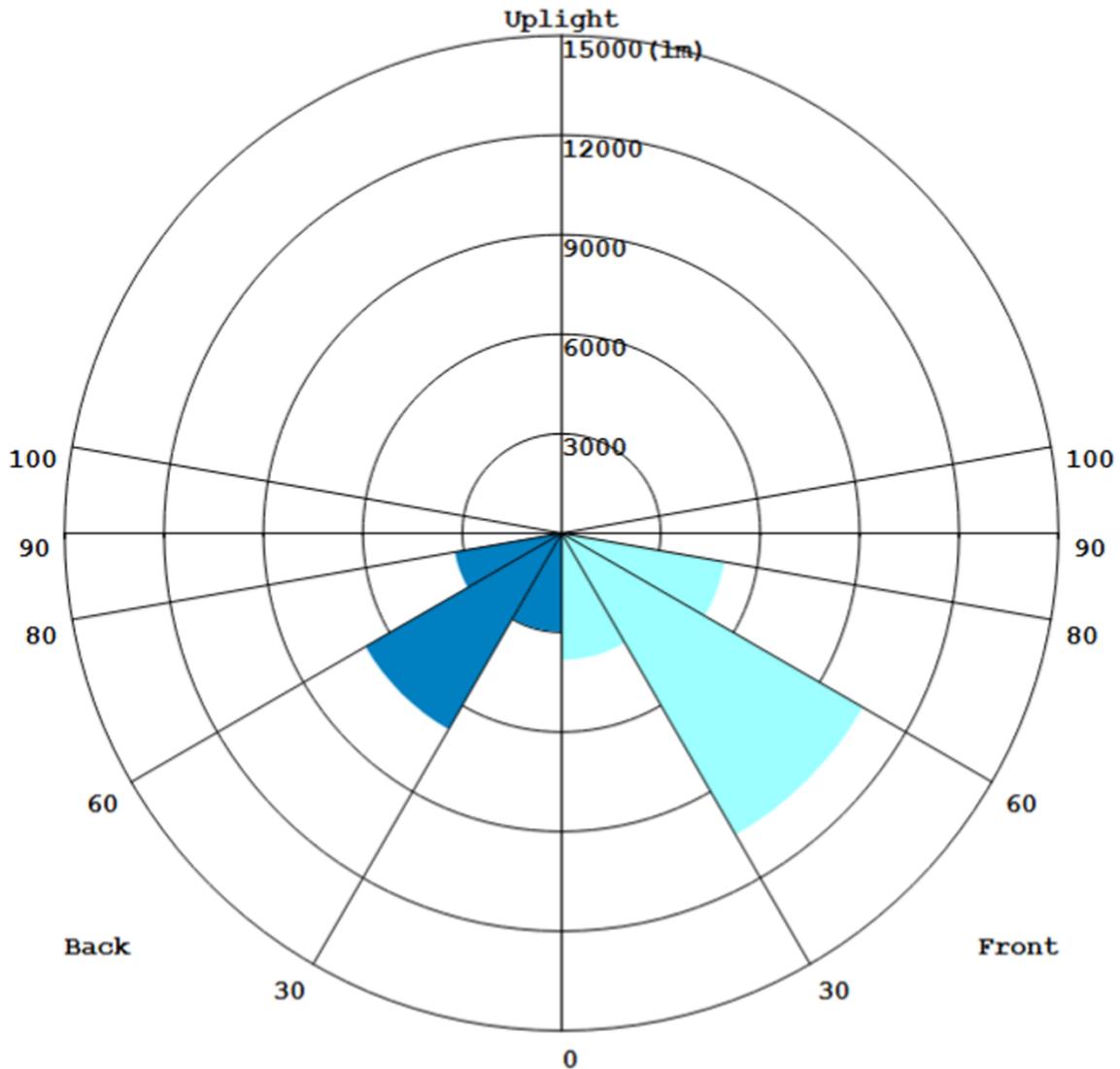
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 Operators: DAMIN
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 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.488
 Humidity: 65.0%
 Test Distance: 12.800m [K=1.0000]
 Remarks:

LCS REPORT

Test:U:220.43V I:0.9175A P:196.03W PF:0.9693 Freq:50.01Hz UTHDi:0.35% ITHDi:9.59% KDisp:0.9744 Lamp Flux:32573.9x1 lm		
NAME: NX-ST9 NEXLEDS	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: NEXTLITE	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:29 October 2025

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:12.800m [K=1.0000]
Remarks:



NEXTLITE PRODUCTS



BUG REPORT

Test:U:220.43V I:0.9175A P:196.03W PF:0.9693 Freq:50.01Hz UTHdi:0.35% ITHdi:9.59% KDisp:0.9744 Lamp Flux:32573.9x1 lm		
NAME: NX-ST9 NEXLEDS	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: NEXTLITE	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	3816.2	11.7
FM - Front-Medium(30-60)	10503	32.2
FH - Front-High(60-80)	4994.8	15.3
FVH - Front-Very High(80-90)	111.6	0.3
Total Forward Light	19426	59.6

BL - Back-Low(0-30)	2979.9	9.1
BM - Back-Medium(30-60)	6827.3	21.0
BH - Back-High(60-80)	3275.3	10.1
BVH - Back-Very High(80-90)	65.555	0.2
Total Back Light	13148	40.4

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B4-U0-G4
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	13148	0	13148
Street Side	19426	0	19426

C Range: 0 - 360DEG
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Test Speed: HIGH
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Operators:DAMIN
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NEXTLITE PRODUCTS

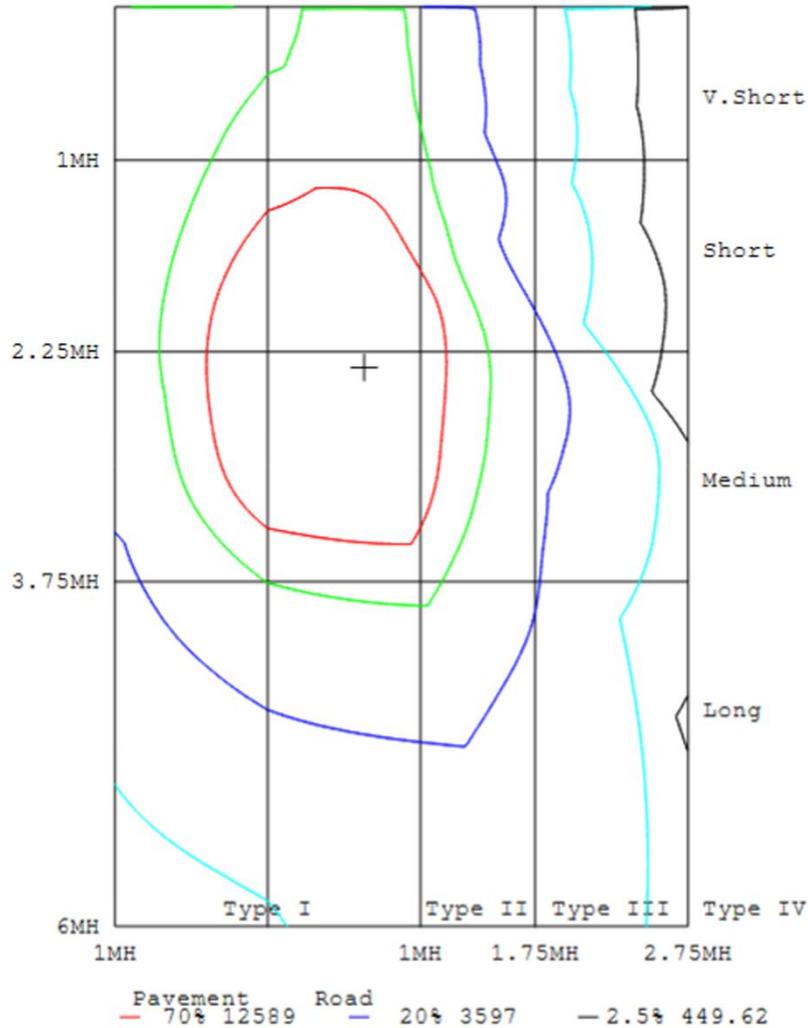


NEXTLITE

ROAD ISOCANDELA REPORT

Test:U:220.43V I:0.9175A P:196.03W PF:0.9693 Freq:50.01Hz		
UTHDi:0.35% ITHDi:9.59% KDisp:0.9744 Lamp Flux:32573.9x1 lm		
NAME: NX-ST9 NEXLEDS	TYPE:LED STREET LIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: NEXTLITE	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:29 October 2025

Y Range: 0 - 90DEG
Y Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:12.800m [K=1.0000]
Remarks:

