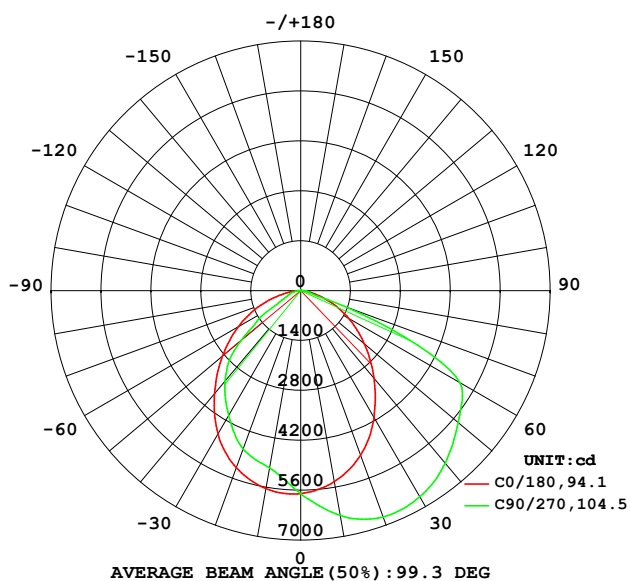
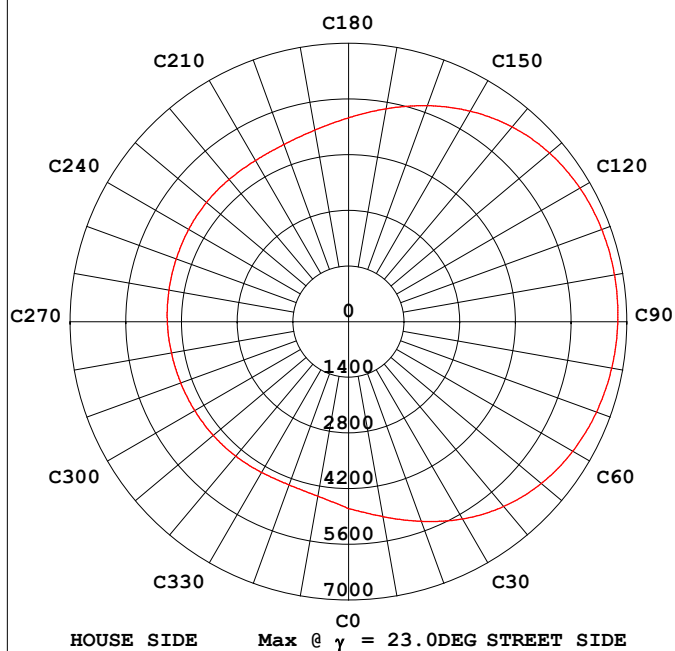


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.35V I:0.8229A P:98.395W PF:0.9935 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16593.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 100W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 166.94 lm/W			
MODEL	WP28-14-120L-S2D4C3	I _{max} (cd)	6770	η street_up (%)	0.0
NOMINAL POWER (W)	100	LOR (%)	99.0	η street_down (%)	64.3
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	16426	η house_up (%)	0.0
NOMINAL FLUX (lm)	16593.5	MAXIMUM @ (C, γ)	90,23.0	η house_down (%)	34.6
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.0	SLI	21.390

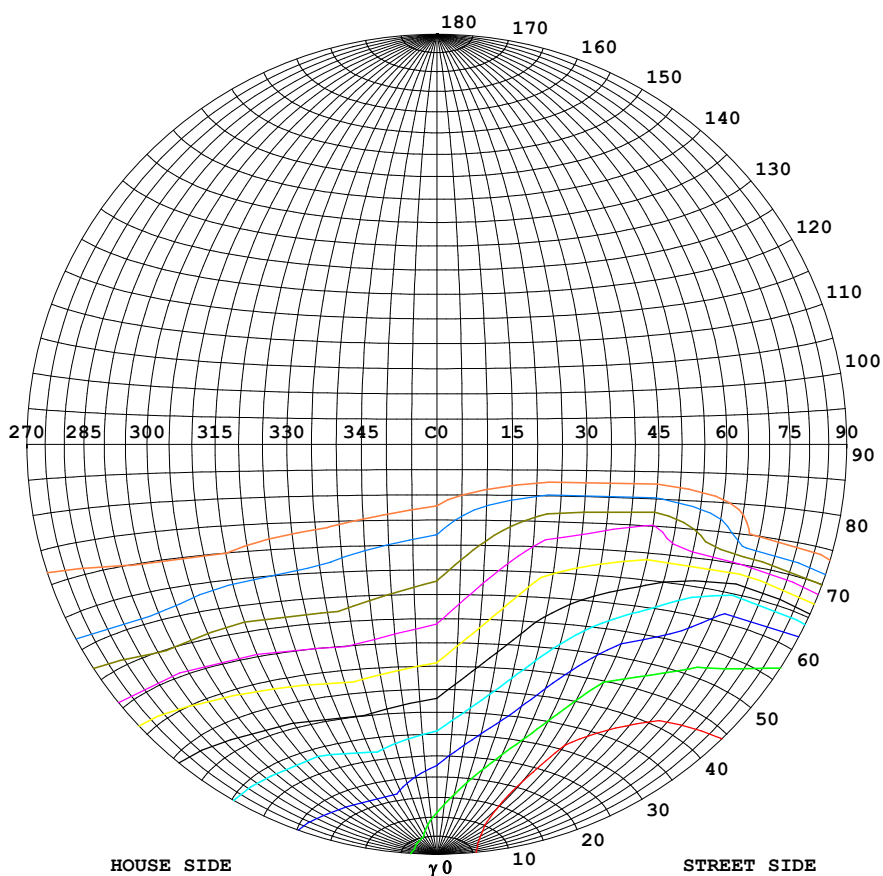
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-04-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.630m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.35V I:0.8229A P:98.395W PF:0.9935 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16593.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 100W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



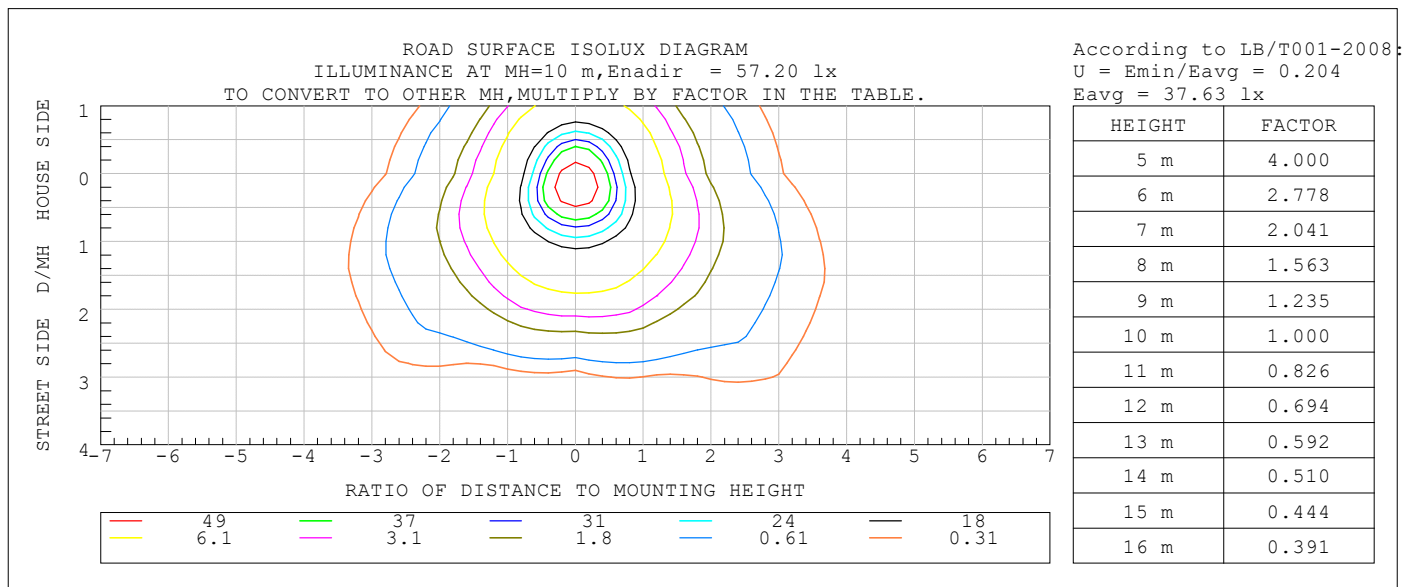
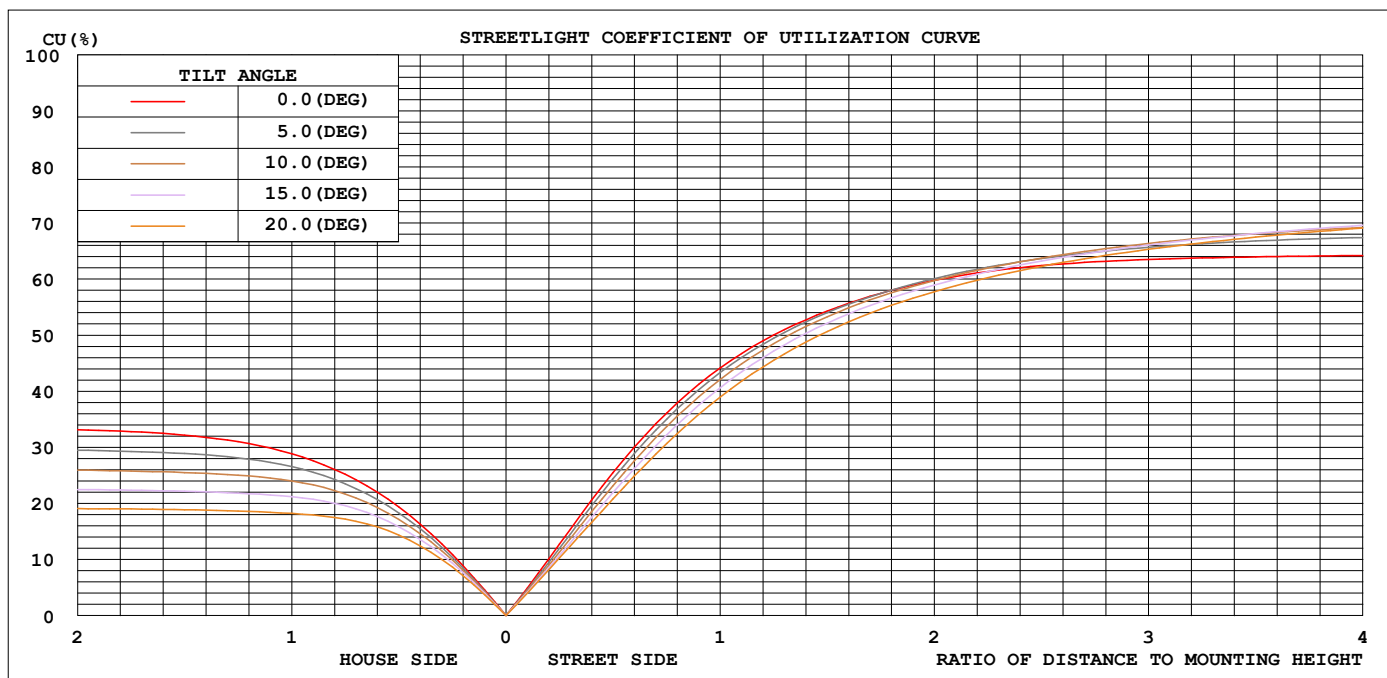
Classification:

IES:Type III - Very Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:83.52cd/klm
Max.At90:0cd/klm
Max.80-90:83.52cd/klm
NRB 5101:Semi limited[12.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6770
90%	6093
80%	5416
70%	4739
60%	4062
50%	3385
40%	2708
30%	2031
20%	1354
10%	677
5%	338

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-04-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.630m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.35V I:0.8229A P:98.395W PF:0.9935 Freq:60.01Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:16593.5x1 lm		
NAME: WP28-14-120L-S2D4C3		TYPE: 100W		WEIGHT:				
SPEC.: 4000K		DIM.:		SERIAL No.:				
MFR.:		SUR.: 0.30*0.1		Shielding Angle:				

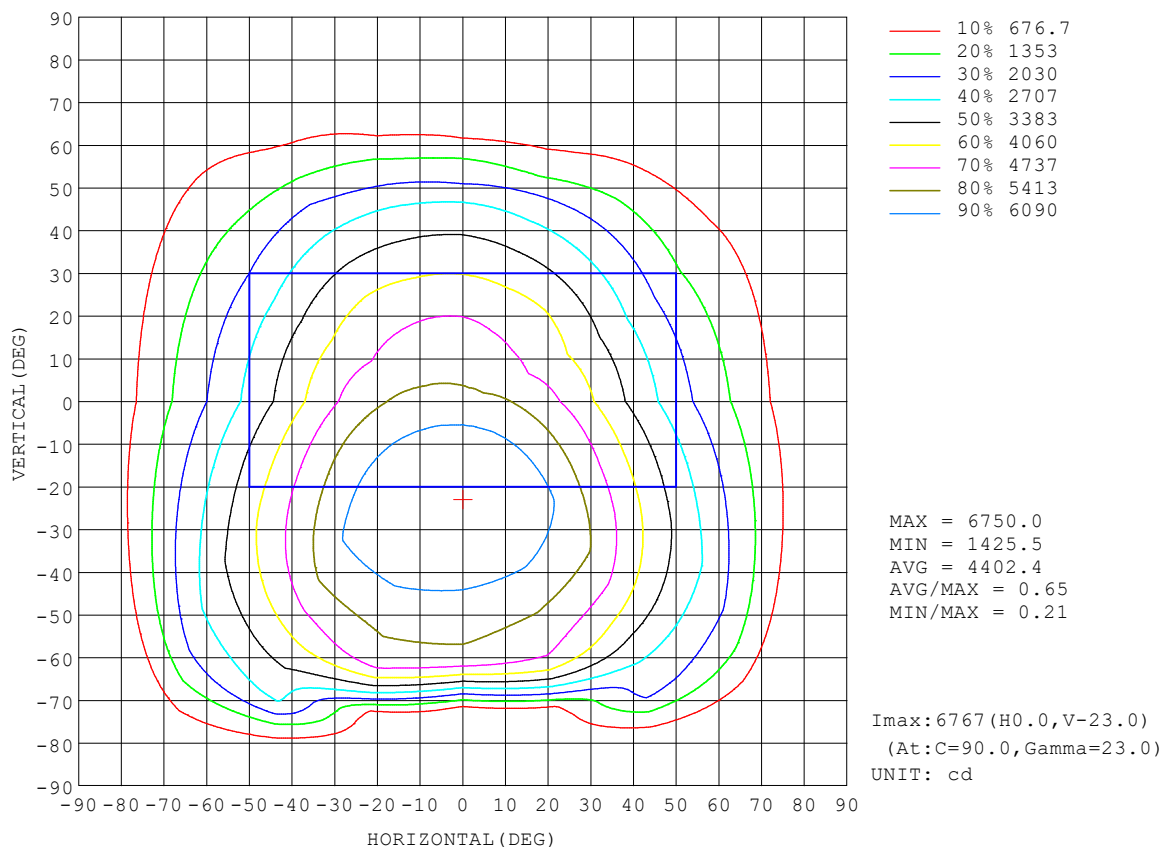
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	5440	6062	6404	6199	5637	5172	5056	5061	0- 10	539.9	539.9	3.29,3.25
20	4912	6222	6753	6489	5285	4798	4729	4594	10- 20	1575	2115	12.9,12.7
30	4111	6093	6681	6472	4644	4266	4042	3942	20- 30	2433	4548	27.7,27.4
40	3199	5696	6311	6201	3762	3465	3302	3024	30- 40	2948	7495	45.6,45.2
50	2340	4962	5767	5584	2871	2574	2198	2078	40- 50	3073	10568	64.3,63.7
60	1554	3853	5154	4576	2018	1539	797.5	980.1	50- 60	2769	13337	81.2,80.4
70	813.7	2526	1310	3367	1190	519.5	366.1	337.0	60- 70	2027	15364	93.5,92.6
80	230.1	704.9	219.6	1221	433.8	207.9	148.1	146.7	70- 80	894.7	16259	99,98
90	0	0	0	0	0	0	0	0	80- 90	167.6	16426	100,99
100	0	0	0	0	0	0	0	0	90-100	0	16426	100,99
110	0	0	0	0	0	0	0	0	100-110	0	16426	100,99
120	0	0	0	0	0	0	0	0	110-120	0	16426	100,99
130	0	0	0	0	0	0	0	0	120-130	0	16426	100,99
140	0	0	0	0	0	0	0	0	130-140	0	16426	100,99
150	0	0	0	0	0	0	0	0	140-150	0	16426	100,99
160	0	0	0	0	0	0	0	0	150-160	0	16426	100,99
170	0	0	0	0	0	0	0	0	160-170	0	16426	100,99
180	0	0	0	0	0	0	0	0	170-180	0	16426	100,99
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

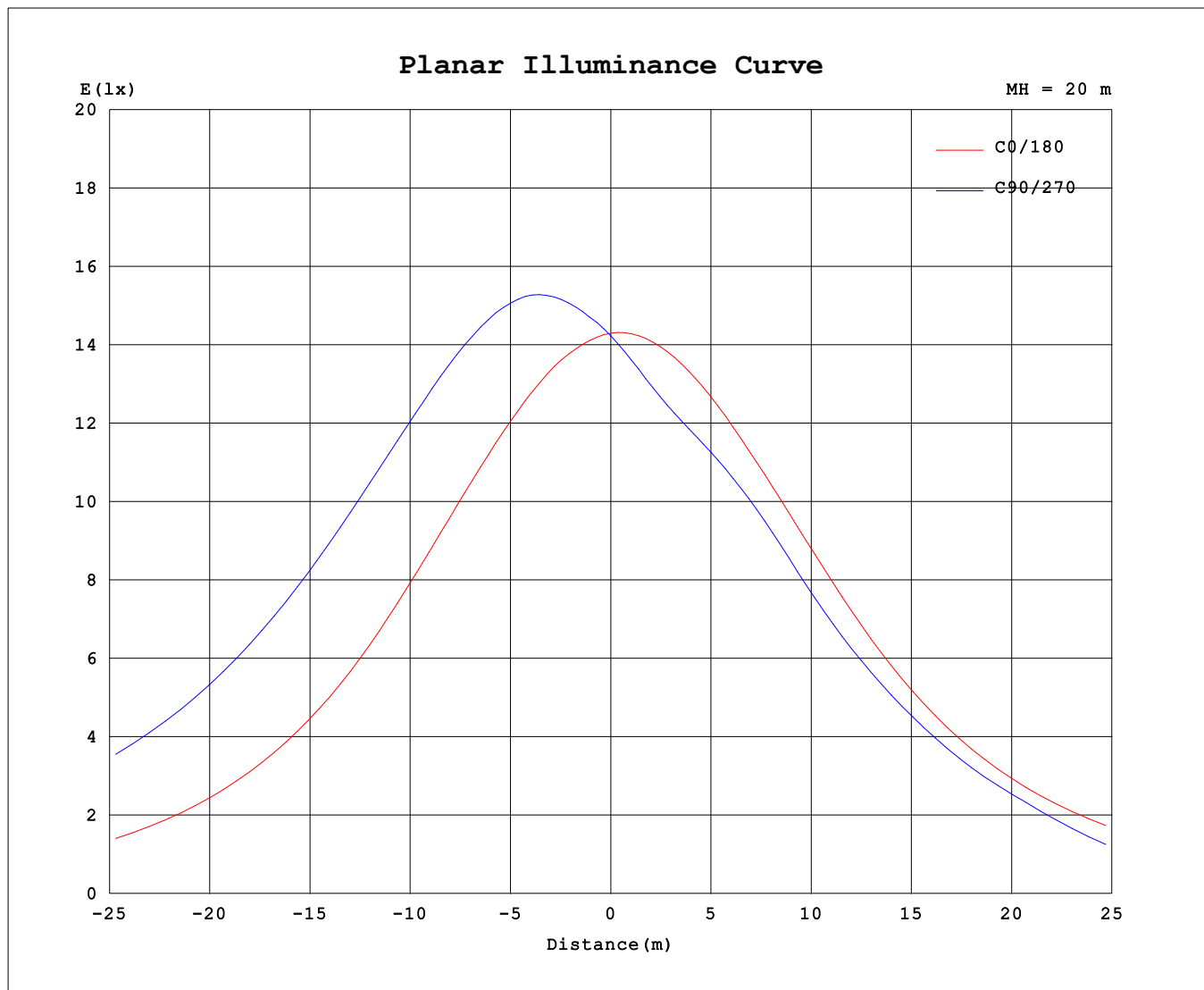
Test:U:120.35V I:0.8229A P:98.395W PF:0.9935 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16593.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 100W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-04-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.630m [K=1.0000]
Remarks:

Planar Illuminance Curve



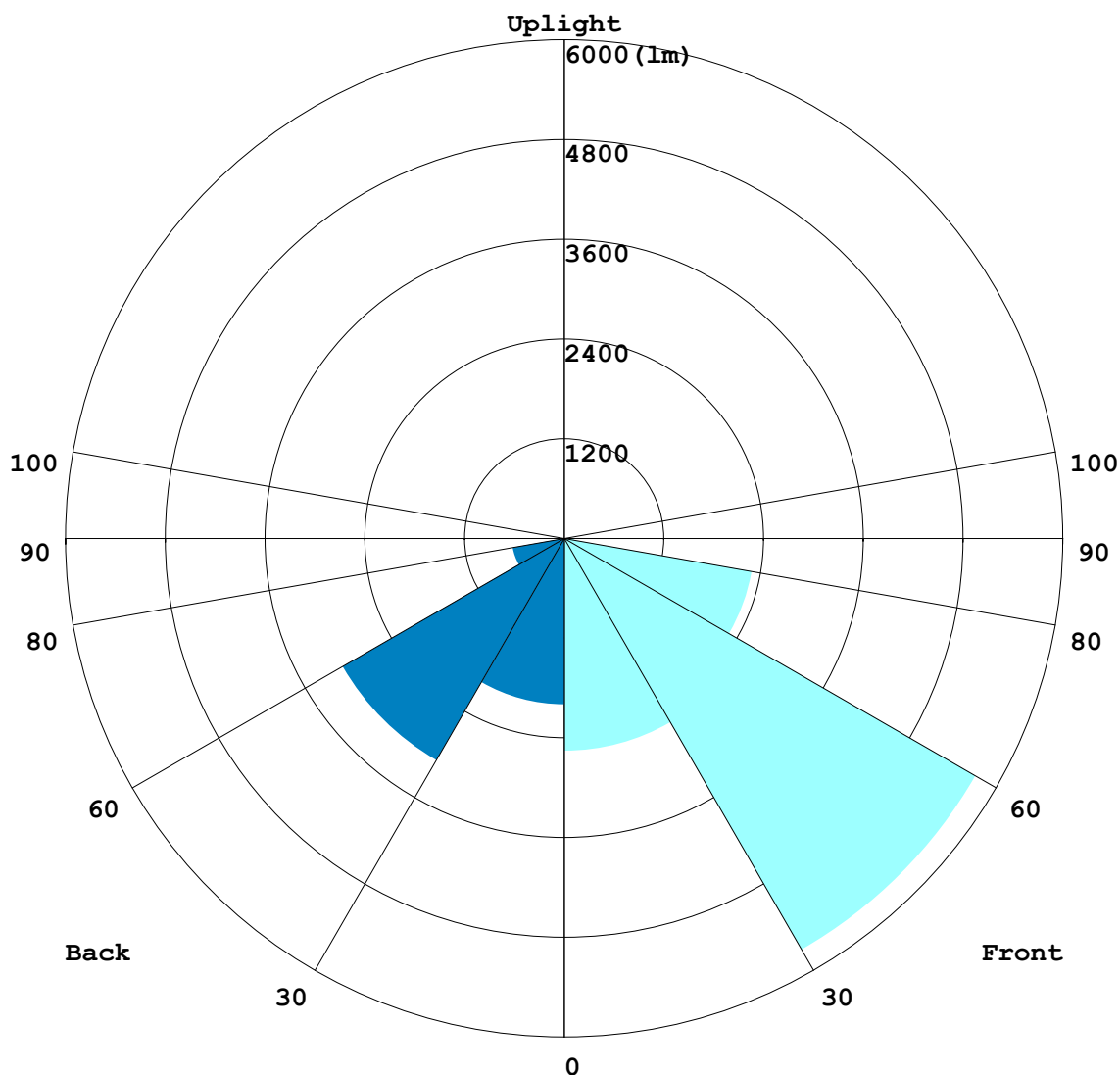
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-04-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.630m [K=1.0000]
Remarks:

LCS REPORT

Test:U:120.35V I:0.8229A P:98.395W PF:0.9935 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16593.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 100W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

BUG REPORT

Test:U:120.35V I:0.8229A P:98.395W PF:0.9935 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16593.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 100W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	2552.9	15.5
FM - Front-Medium(30-60)	5712.1	34.8
FH - Front-High(60-80)	2290.1	13.9
FVH - Front-Very High(80-90)	122.37	0.7
Total Forward Light	10677	65.0

BL - Back-Low(0-30)	1994.6	12.1
BM - Back-Medium(30-60)	3077.7	18.7
BH - Back-High(60-80)	631.3	3.8
BVH - Back-Very High(80-90)	45.26	0.3
Total Back Light	5748.9	35.0

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	B3-U0-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5748.9	0	5748.9
Street Side	10677	0	10677

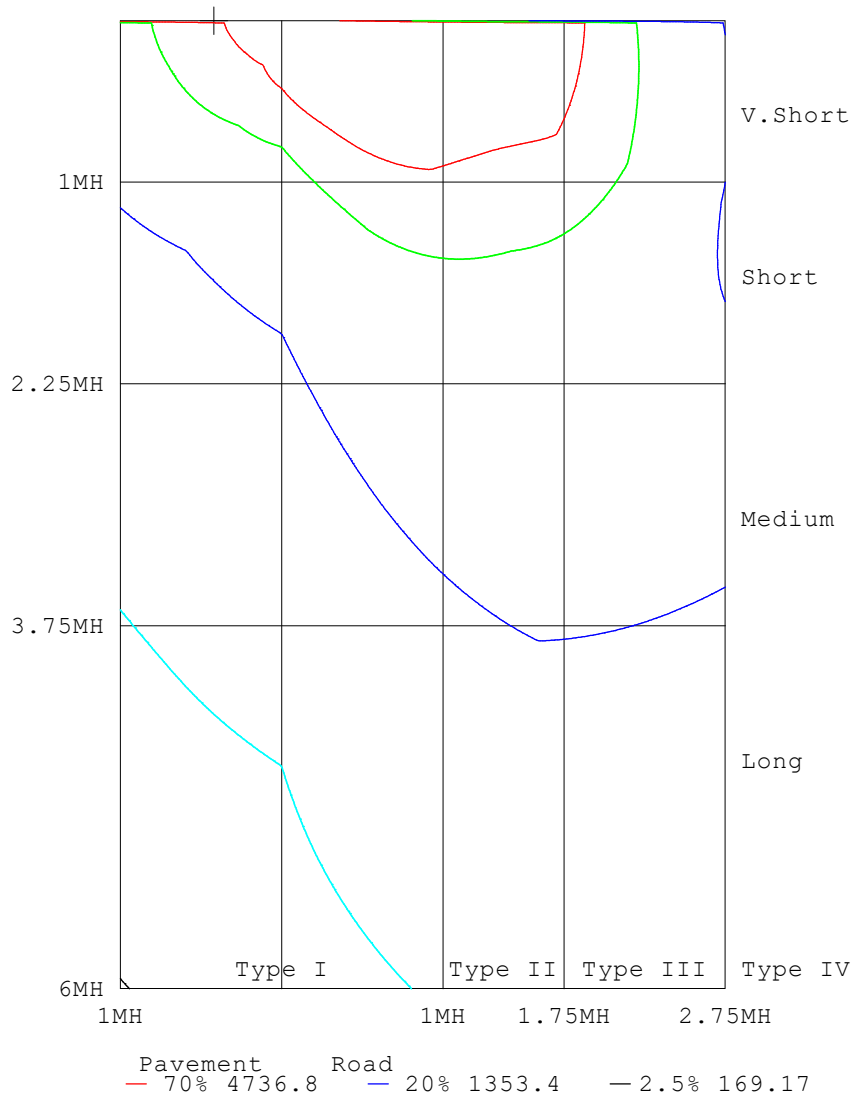
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.35V I:0.8229A P:98.395W PF:0.9935 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16593.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 100W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.630m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.35V I:0.8229A P:98.395W PF:0.9935 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16593.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 100W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	5696	5696	5696	5696	5696	5696	5696	5696	5696	5696	5696	5696	5696	5696	5696	5696			
5	5600	5752	5895	6004	6058	6048	5968	5855	5707	5555	5440	5357	5317	5323	5366	5467			
10	5440	5754	6062	6290	6404	6379	6199	5942	5637	5356	5172	5093	5056	5035	5061	5183			
15	5209	5685	6179	6503	6640	6618	6379	5970	5496	5125	4974	4934	4909	4857	4817	4878			
20	4912	5555	6222	6599	6753	6743	6489	5927	5285	4875	4798	4771	4729	4659	4594	4564			
25	4547	5346	6190	6603	6758	6769	6507	5814	5006	4613	4577	4495	4415	4343	4311	4220			
30	4111	5062	6093	6523	6681	6716	6472	5619	4644	4298	4266	4119	4042	3945	3942	3841			
35	3648	4723	5930	6368	6530	6589	6366	5338	4217	3916	3881	3746	3690	3559	3482	3420			
40	3199	4375	5696	6145	6311	6399	6201	5011	3762	3498	3465	3366	3302	3139	3024	2955			
45	2761	4032	5374	5854	6045	6145	5944	4681	3313	3061	3037	2949	2881	2679	2560	2490			
50	2340	3681	4962	5523	5767	5850	5584	4349	2871	2593	2574	2469	2198	2130	2078	2031			
55	1934	3332	4459	5183	5519	5550	5127	4007	2441	2127	2092	1703	1503	1332	1554	1543			
60	1554	2984	3853	4867	5154	5295	4576	3657	2018	1692	1539	1194	798	810	980	1141			
65	1177	2608	3191	3979	3621	4564	3972	3290	1602	1282	979	613	485	462	603	789			
70	814	2162	2526	2008	1310	2611	3367	2859	1190	913	519	398	366	338	337	522			
75	490	1570	2057	344	274	480	2838	2296	785	538	318	280	293	260	232	284			
80	230	699	705	207	220	248	1221	1386	434	240	208	179	148	142	147	130			
85	57.7	144	173	123	116	167	301	399	165	93.7	100	53.9	43.8	35.3	38.6	44.4			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:2025-04-22

γ Range: 0 - 180DEG

γ Interval: 1.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461

Humidity:65.0%

Test Distance:9.630m [K=1.0000]

Remarks: