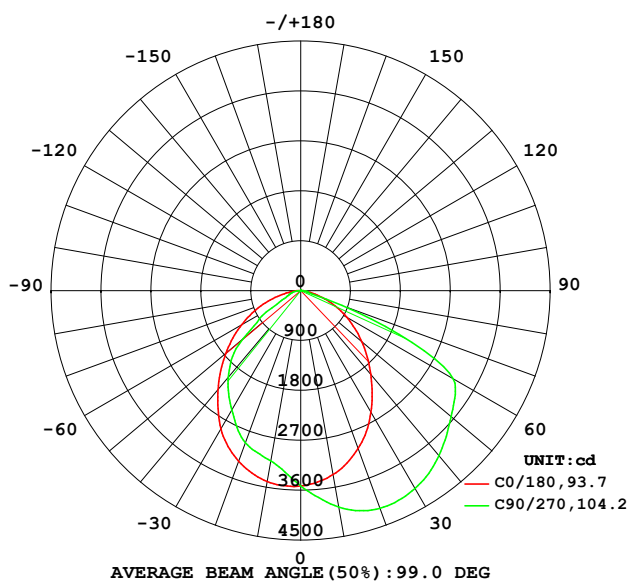
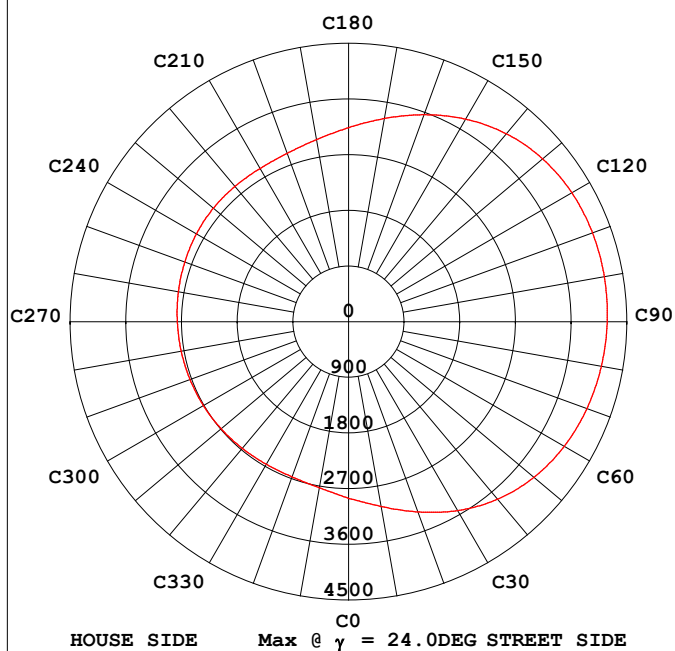


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.52V I:0.5208A P:61.604W PF:0.9815 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10232.3x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 164.44 lm/W			
MODEL	WP28-14-120L-S2D4C3	Imax(cd)	4194	η street_up(%)	0.0
NOMINAL POWER(W)	60	LOR(%)	99.0	η street_down(%)	64.4
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	10130	η house_up(%)	0.0
NOMINAL FLUX(lm)	10232.3	MAXIMUM @ (C, γ)	113,24.0	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	20.704

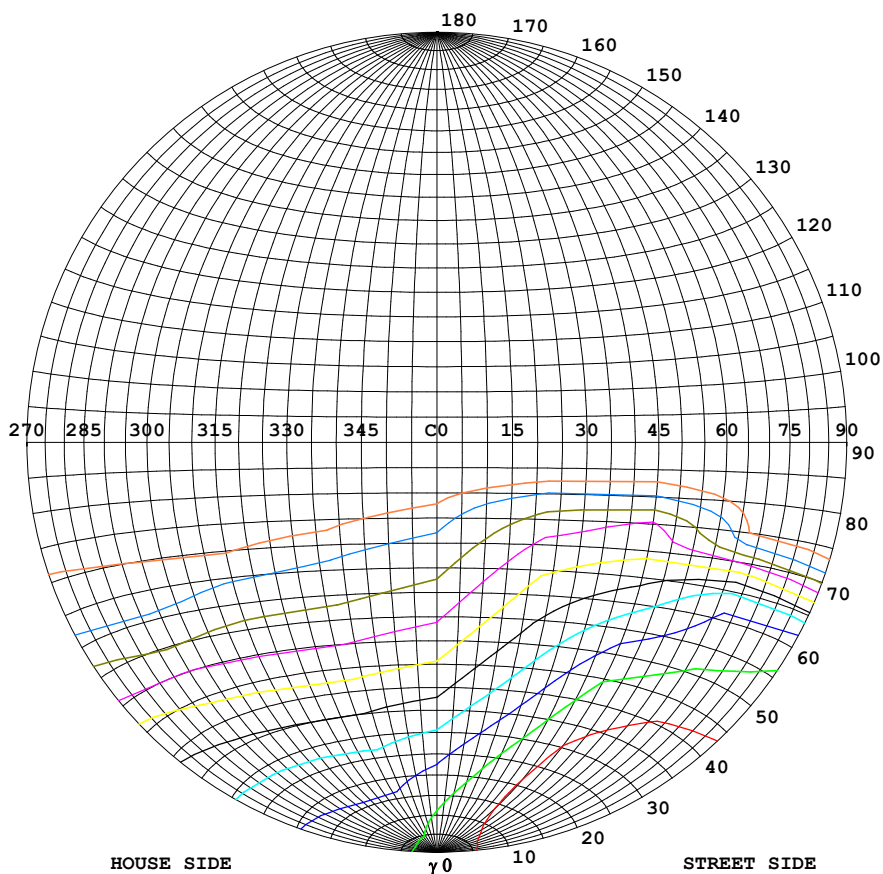
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-04-23

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:120.52V I:0.5208A P:61.604W PF:0.9815 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10232.3x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



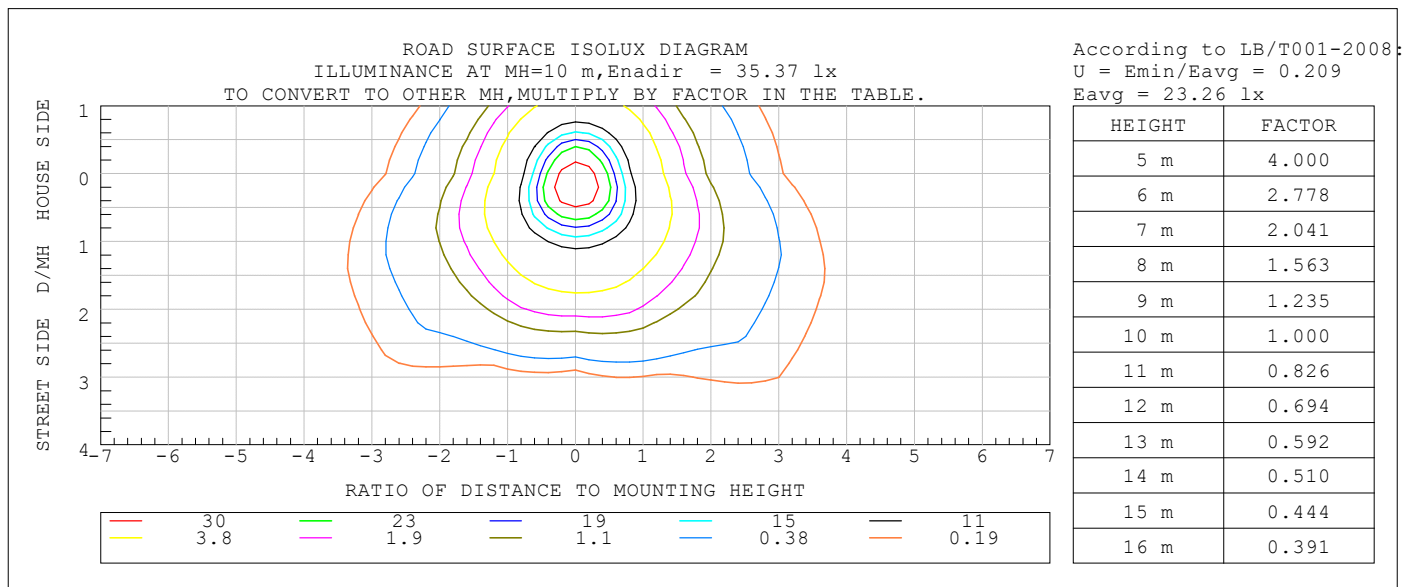
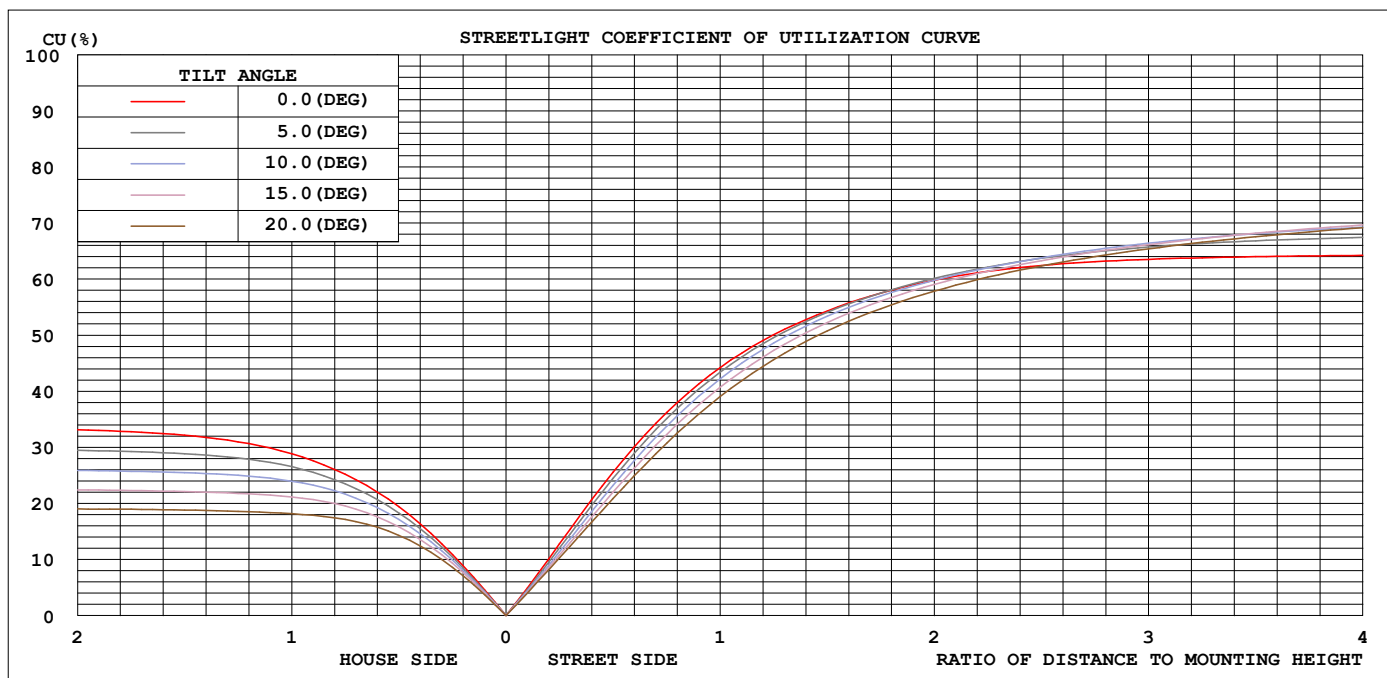
Classification:

IES:Type III - Very Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:82.66cd/klm
Max.At90:0cd/klm
Max.80-90:82.66cd/klm
NRB 5101:Semi limited[12.0%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4194
90%	3774
80%	3355
70%	2936
60%	2516
50%	2097
40%	1677
30%	1258
20%	839
10%	419
5%	210

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-04-23

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: 2025-04-23

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:120.52V I:0.5208A P:61.604W PF:0.9815 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10232.3x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

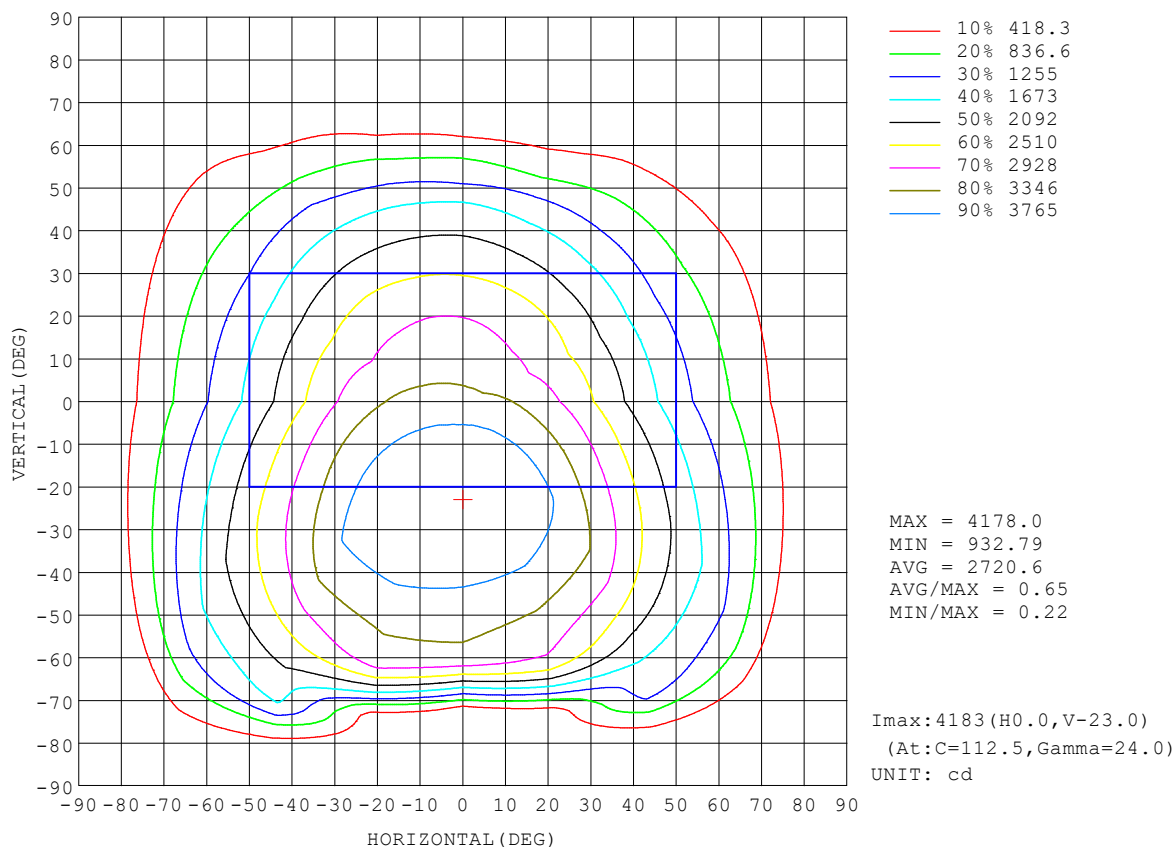
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3368	3755	3963	3844	3496	3196	3119	3126	0- 10	334.0	334.0	3.3,3.26
20	3029	3856	4176	4025	3273	2963	2918	2834	10- 20	974.8	1309	12.9,12.8
30	2535	3763	4120	4013	2880	2633	2485	2387	20- 30	1504	2813	27.8,27.5
40	1968	3508	3884	3842	2320	2135	2032	1830	30- 40	1819	4632	45.7,45.3
50	1444	3049	3541	3456	1763	1584	1364	1237	40- 50	1893	6524	64.4,63.8
60	960.3	2368	3175	2822	1232	944.4	501.0	595.0	50- 60	1705	8229	81.2,80.4
70	504.5	1555	792.3	2072	723.6	315.7	222.6	201.6	60- 70	1247	9476	93.5,92.6
80	142.9	436.1	134.1	772.2	264.5	127.8	91.77	90.91	70- 80	551.2	10027	99,98
90	0	0	0	0	0	0	0	0	80- 90	102.6	10130	100,99
100	0	0	0	0	0	0	0	0	90-100	0	10130	100,99
110	0	0	0	0	0	0	0	0	100-110	0	10130	100,99
120	0	0	0	0	0	0	0	0	110-120	0	10130	100,99
130	0	0	0	0	0	0	0	0	120-130	0	10130	100,99
140	0	0	0	0	0	0	0	0	130-140	0	10130	100,99
150	0	0	0	0	0	0	0	0	140-150	0	10130	100,99
160	0	0	0	0	0	0	0	0	150-160	0	10130	100,99
170	0	0	0	0	0	0	0	0	160-170	0	10130	100,99
180	0	0	0	0	0	0	0	0	170-180	0	10130	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:2025-04-23

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

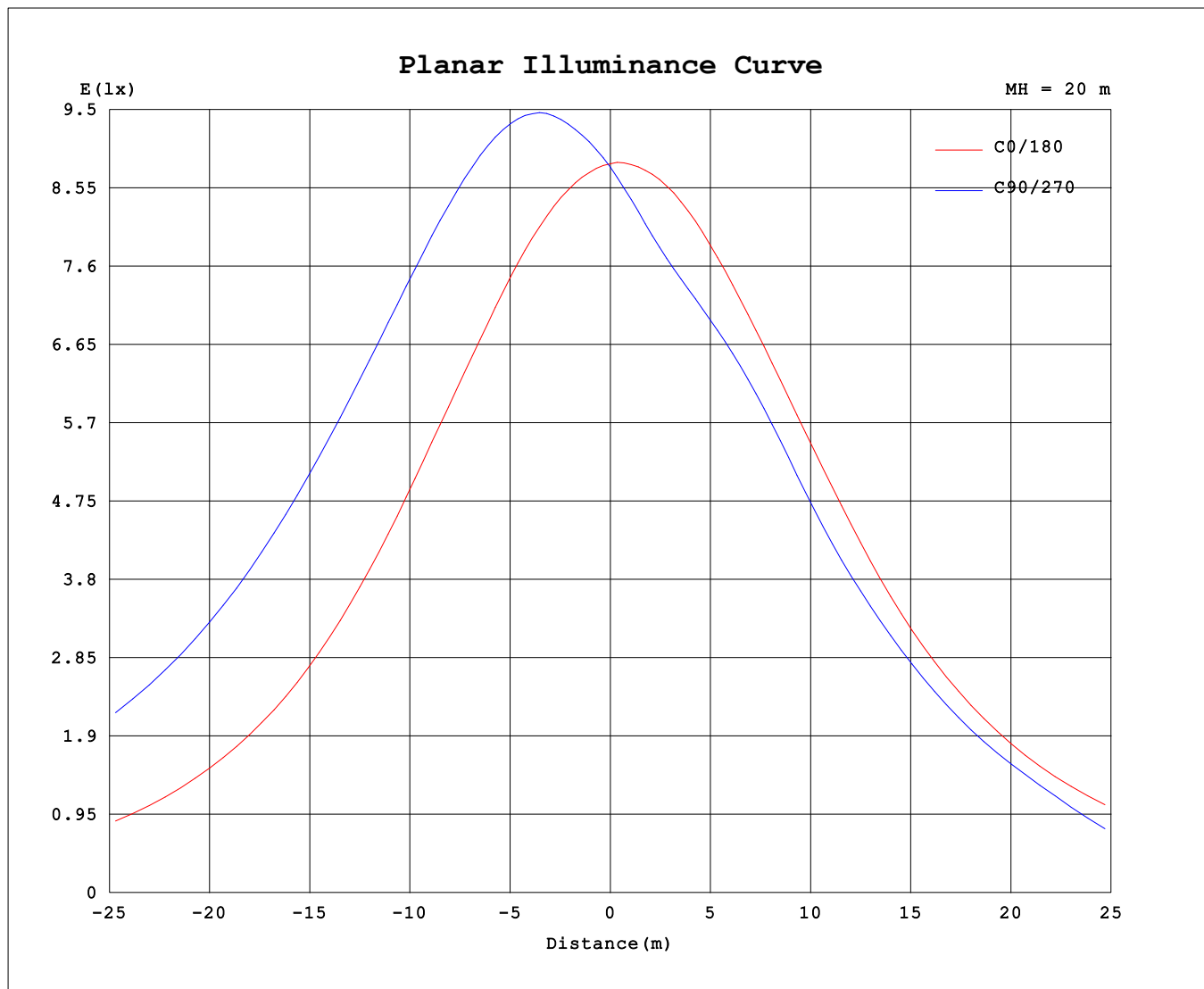
Test:U:120.52V I:0.5208A P:61.604W PF:0.9815 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10232.3x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2025-04-23

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

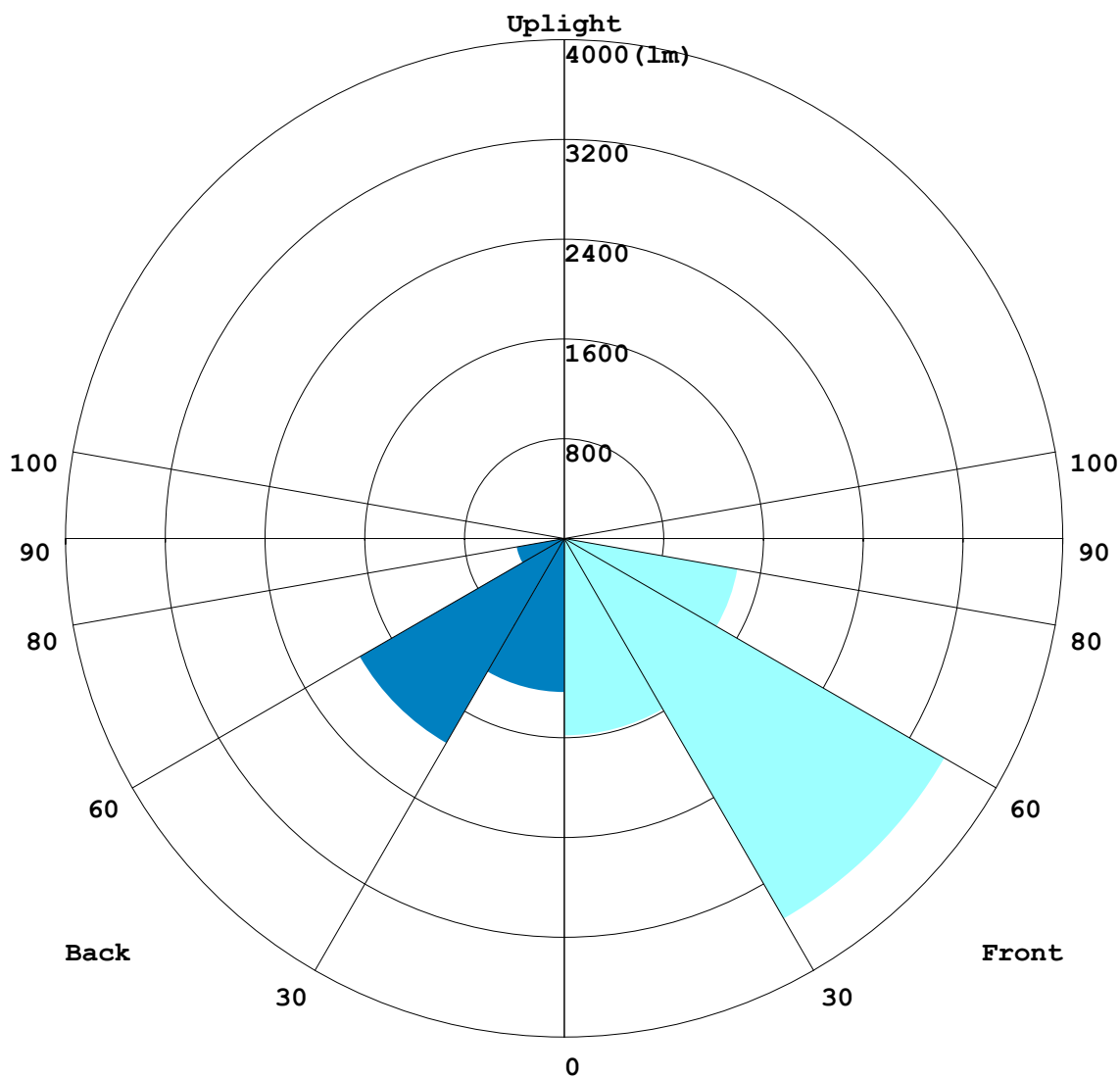


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2025-04-23

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:120.52V I:0.5208A P:61.604W PF:0.9815 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10232.3x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 3000K	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:2025-04-23

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:120.52V I:0.5208A P:61.604W PF:0.9815 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10232.3x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1580.1	15.6
FM - Front-Medium(30-60)	3521.5	34.8
FH - Front-High(60-80)	1411.8	13.9
FVH - Front-Very High(80-90)	74.748	0.7
Total Forward Light	6588.2	65.0

BL - Back-Low(0-30)	1232.7	12.2
BM - Back-Medium(30-60)	1894.5	18.7
BH - Back-High(60-80)	386.72	3.8
BVH - Back-Very High(80-90)	27.815	0.3
Total Back Light	3541.7	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-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3541.7	0	3541.7
Street Side	6588.2	0	6588.2

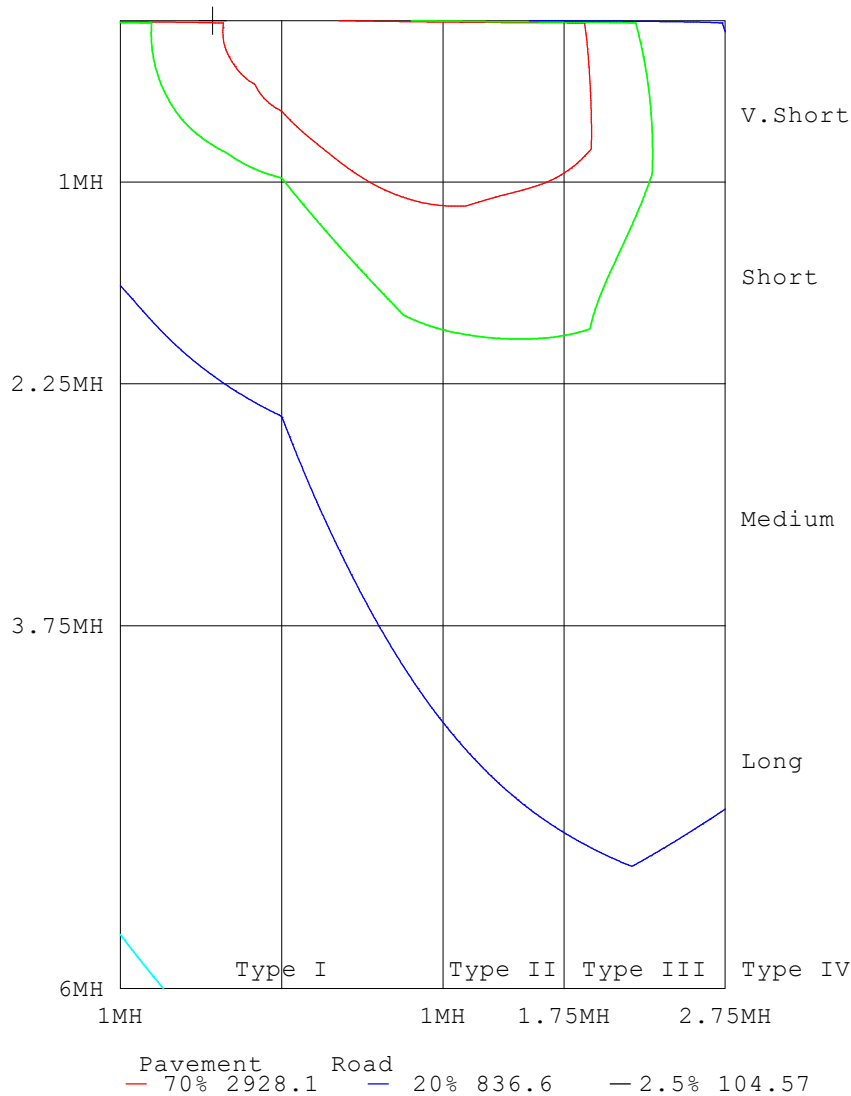
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-23

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:120.52V I:0.5208A P:61.604W PF:0.9815 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10232.3x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 3000K	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°C
Operators:DAMIN
Test Date:2025-04-23

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:120.52V I:0.5208A P:61.604W PF:0.9815 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10232.3x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 3000K	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	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522	3522			
5	3469	3562	3651	3719	3746	3740	3689	3620	3531	3436	3361	3310	3285	3288	3317	3381			
10	3368	3567	3755	3902	3963	3946	3844	3685	3496	3317	3196	3144	3119	3109	3126	3208			
15	3221	3524	3825	4029	4109	4097	3960	3700	3405	3169	3076	3049	3028	2998	2976	3027			
20	3029	3432	3856	4087	4176	4180	4025	3671	3273	3016	2963	2952	2918	2878	2834	2834			
25	2806	3306	3828	4080	4175	4191	4042	3604	3100	2851	2827	2784	2723	2680	2642	2621			
30	2535	3129	3763	4027	4120	4152	4013	3483	2880	2658	2633	2549	2485	2430	2387	2389			
35	2251	2921	3662	3927	4025	4070	3946	3311	2604	2424	2393	2316	2271	2174	2116	2121			
40	1968	2698	3508	3786	3884	3945	3842	3102	2320	2162	2135	2083	2032	1911	1830	1839			
45	1704	2483	3310	3601	3714	3780	3684	2898	2041	1892	1869	1821	1771	1625	1553	1552			
50	1444	2266	3049	3392	3541	3594	3456	2687	1763	1602	1584	1529	1364	1268	1237	1267			
55	1195	2052	2737	3179	3390	3408	3167	2474	1496	1309	1283	1049	924	809	944	999			
60	960	1837	2368	2993	3175	3256	2822	2254	1232	1032	944	743	501	503	595	738			
65	729	1612	1959	2450	2220	2816	2446	2024	976	778	597	384	305	288	375	503			
70	504	1343	1555	1226	792	1587	2072	1754	724	555	316	249	223	209	202	304			
75	304	976	1302	209	167	258	1770	1410	478	330	195	171	176	162	141	164			
80	143	431	436	127	134	151	772	846	265	148	128	109	91.8	89.8	90.9	77.5			
85	35.7	86.6	104	75.1	70.2	102	194	228	101	57.3	61.1	33.4	27.6	22.3	24.1	26.9			
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:2025-04-23

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: