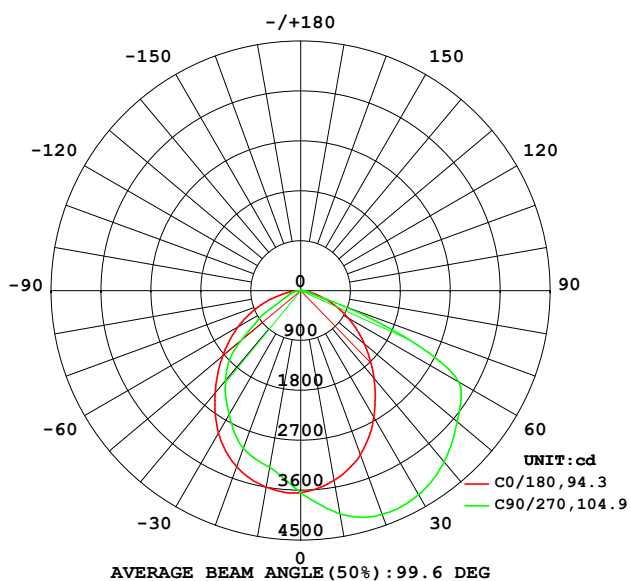
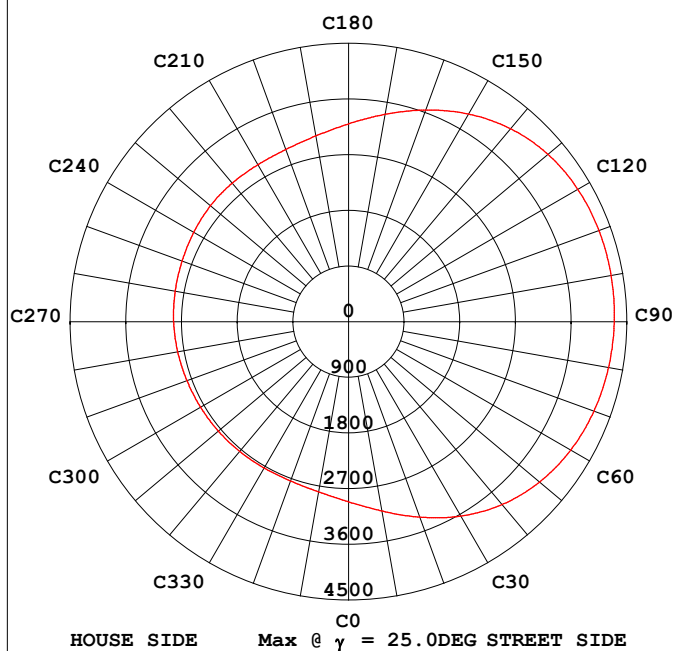


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.49V I:0.5233A P:61.853W PF:0.9810 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10619x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 169.97 lm/W			
MODEL	WP28-14-120L-S2D4C3	I _{max} (cd)	4305	η street_up (%)	0.0
NOMINAL POWER (W)	60	LOR (%)	99.0	η street_down (%)	64.3
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	10513	η house_up (%)	0.0
NOMINAL FLUX (lm)	10619	MAXIMUM @ (C, γ)	113,25.0	η house_down (%)	34.7
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.0	SLI	20.750

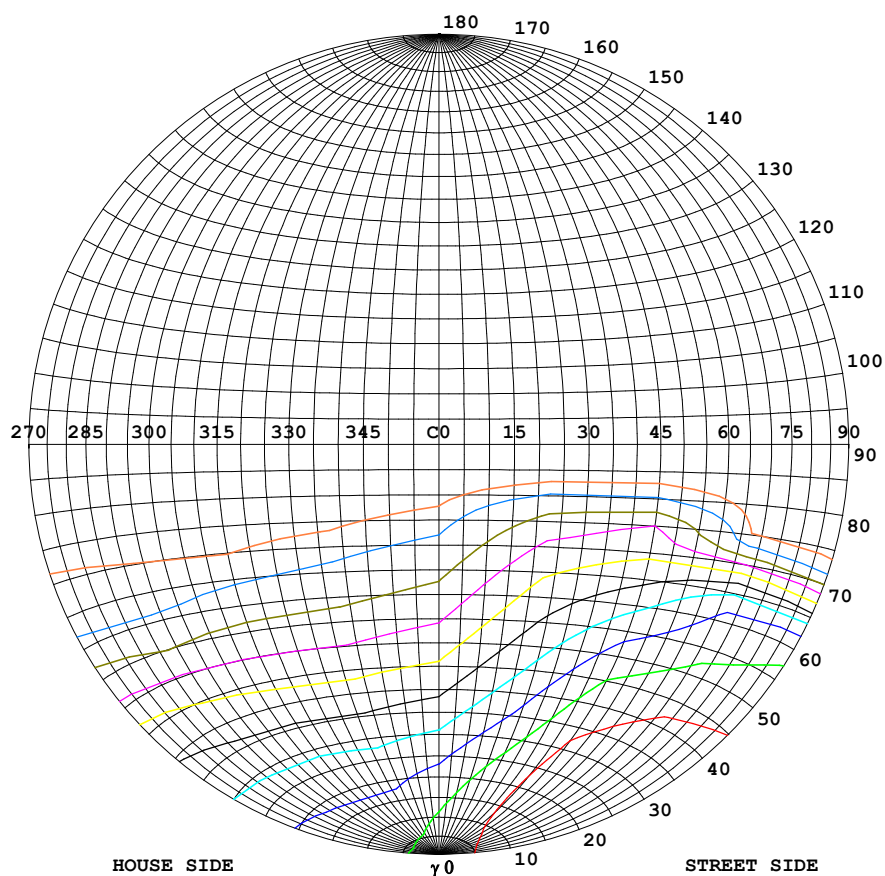
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:120.49V I:0.5233A P:61.853W PF:0.9810 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10619x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



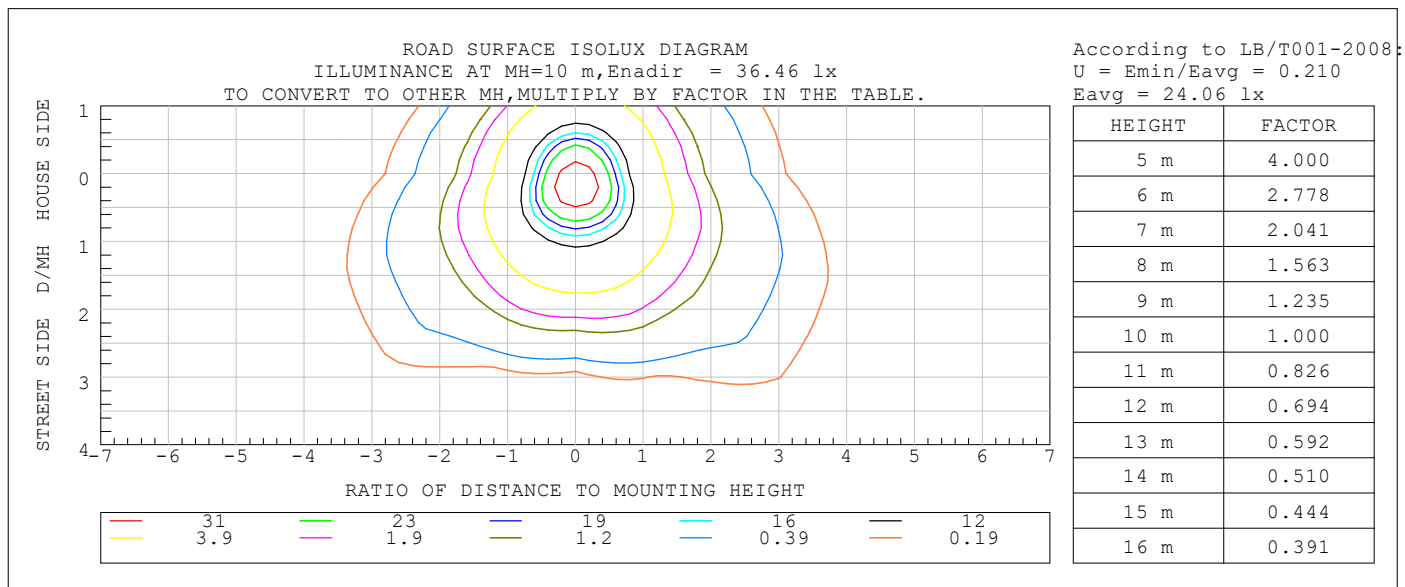
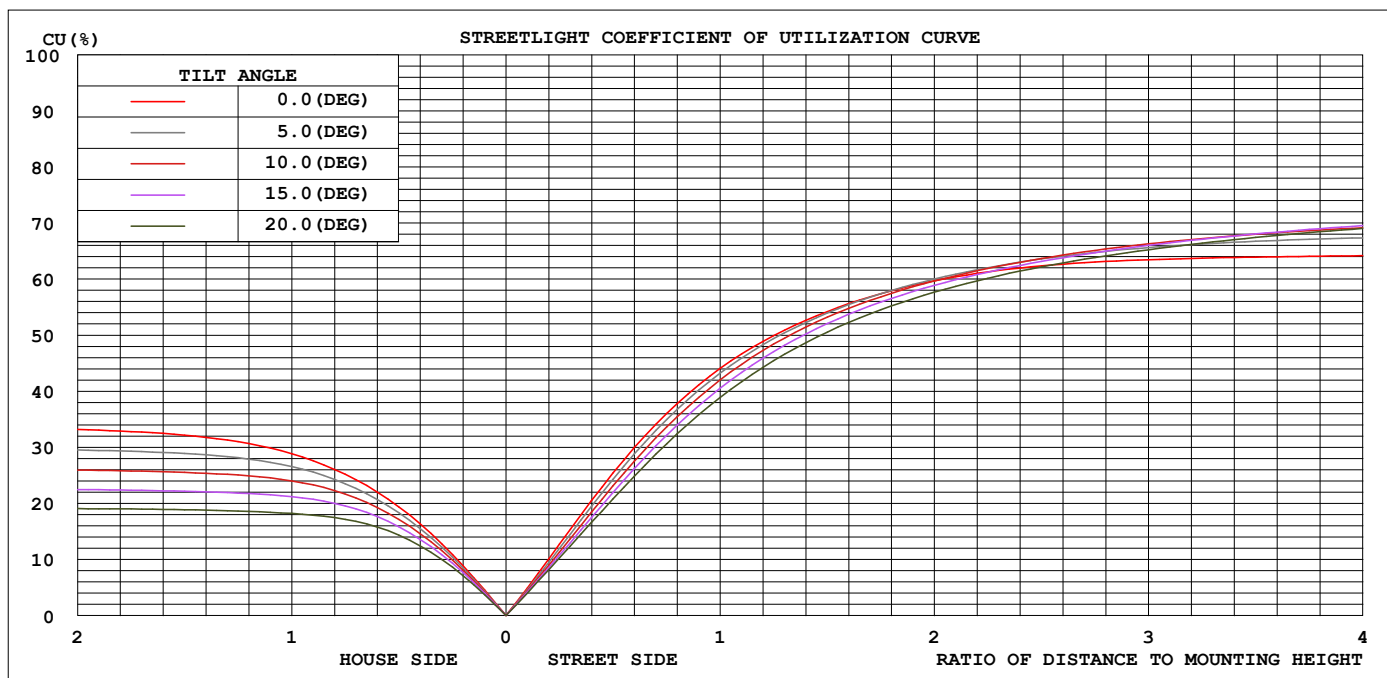
Classification:

IES:Type III - Very Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:85.82cd/klm
Max.At90:0cd/klm
Max.80-90:85.82cd/klm
NRB 5101:Semi limited[12.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4305
90%	3874
80%	3444
70%	3013
60%	2583
50%	2152
40%	1722
30%	1291
20%	861
10%	430
5%	215

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:

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:120.49V I:0.5233A P:61.853W PF:0.9810 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10619x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

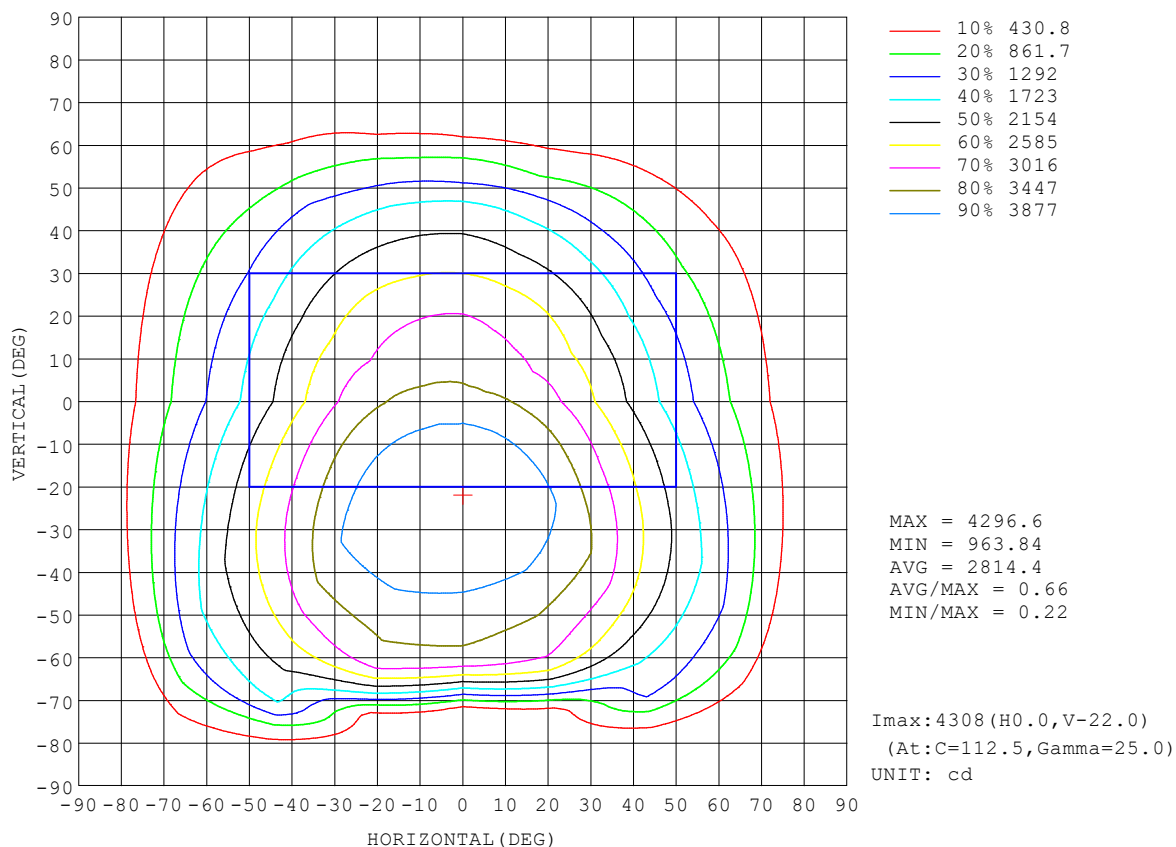
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3476	3865	4085	3952	3597	3308	3238	3238	0- 10	344.9	344.9	3.28,3.25
20	3152	3963	4291	4132	3379	3070	3026	2939	10- 20	1006	1351	12.8,12.7
30	2638	3894	4250	4127	2968	2724	2580	2506	20- 30	1554	2905	27.6,27.4
40	2057	3648	4024	3959	2403	2212	2112	1914	30- 40	1883	4788	45.5,45.1
50	1505	3182	3685	3572	1840	1647	1415	1286	40- 50	1966	6753	64.2,63.6
60	989.2	2482	3286	2948	1300	991.7	527.8	610.6	50- 60	1775	8528	81.1,80.3
70	516.1	1616	837.7	2178	770.1	337.0	233.9	210.9	60- 70	1301	9829	93.5,92.6
80	147.1	459.2	139.3	821.9	280.2	134.8	95.30	93.99	70- 80	573.9	10403	99,98
90	0	0	0	0	0	0	0	0	80- 90	110.4	10513	100,99
100	0	0	0	0	0	0	0	0	90-100	0	10513	100,99
110	0	0	0	0	0	0	0	0	100-110	0	10513	100,99
120	0	0	0	0	0	0	0	0	110-120	0	10513	100,99
130	0	0	0	0	0	0	0	0	120-130	0	10513	100,99
140	0	0	0	0	0	0	0	0	130-140	0	10513	100,99
150	0	0	0	0	0	0	0	0	140-150	0	10513	100,99
160	0	0	0	0	0	0	0	0	150-160	0	10513	100,99
170	0	0	0	0	0	0	0	0	160-170	0	10513	100,99
180	0	0	0	0	0	0	0	0	170-180	0	10513	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

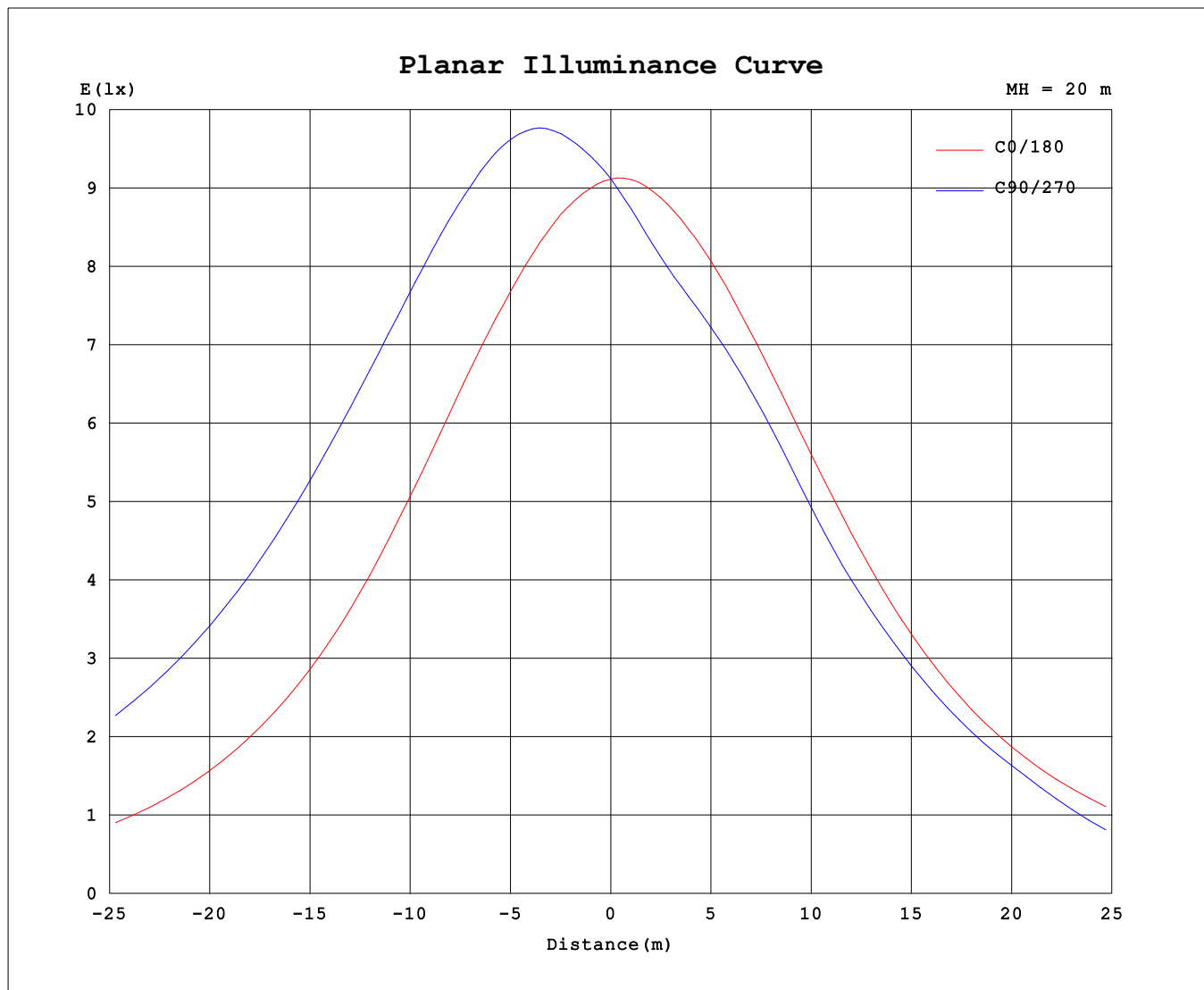
Test:U:120.49V I:0.5233A P:61.853W PF:0.9810 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10619x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



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



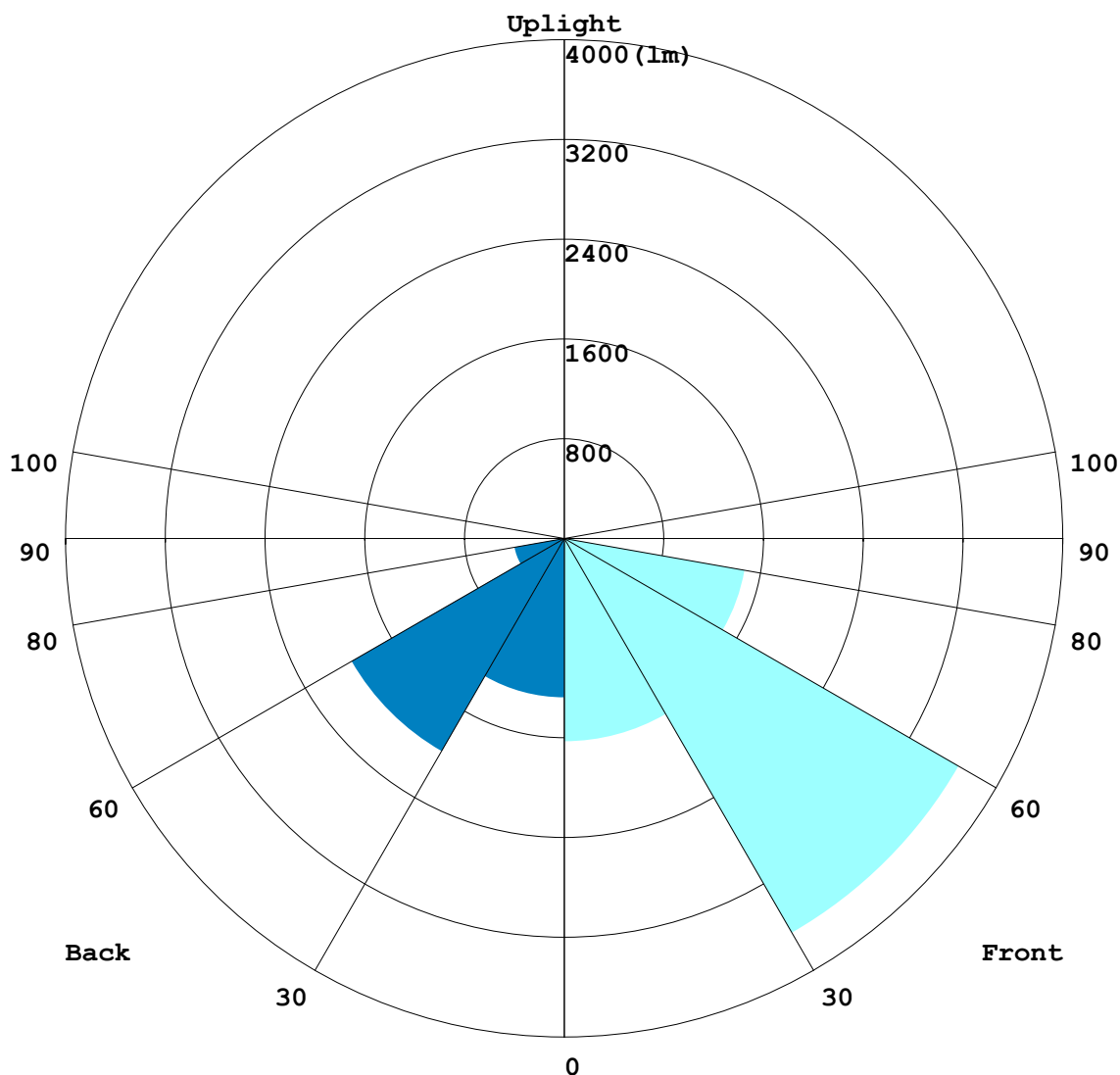
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-04-23

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:120.49V I:0.5233A P:61.853W PF:0.9810 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10619x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 5000K	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:120.49V I:0.5233A P:61.853W PF:0.9810 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10619x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1628.2	15.5
FM - Front-Medium(30-60)	3654	34.8
FH - Front-High(60-80)	1468.5	14.0
FVH - Front-Very High(80-90)	81.273	0.8
Total Forward Light	6832	65.0

BL - Back-Low(0-30)	1276.4	12.1
BM - Back-Medium(30-60)	1969.4	18.7
BH - Back-High(60-80)	406.11	3.9
BVH - Back-Very High(80-90)	29.095	0.3
Total Back Light	3681	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	3681	0	3681
Street Side	6832	0	6832

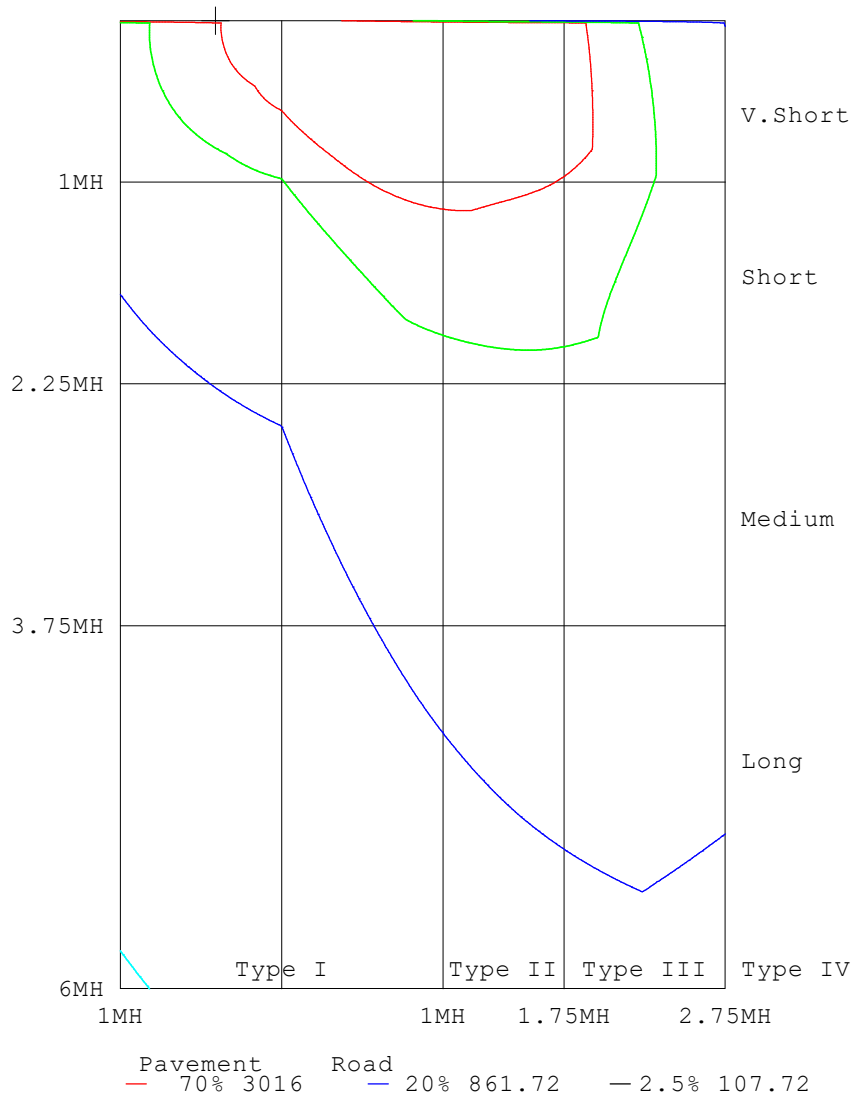
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-23

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:120.49V I:0.5233A P:61.853W PF:0.9810 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10619x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 5000K	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:2025-04-23

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:120.49V I:0.5233A P:61.853W PF:0.9810 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10619x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 5000K	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	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643	3643			
5	3578	3672	3764	3828	3868	3861	3812	3738	3648	3555	3483	3432	3405	3404	3432	3491			
10	3476	3672	3865	4008	4085	4067	3952	3781	3597	3422	3308	3260	3238	3220	3238	3317			
15	3330	3629	3937	4138	4232	4213	4064	3801	3512	3277	3180	3156	3143	3106	3083	3134			
20	3152	3558	3963	4200	4291	4287	4132	3774	3379	3121	3070	3046	3026	2978	2939	2947			
25	2913	3428	3953	4207	4296	4305	4151	3703	3200	2953	2926	2871	2829	2777	2746	2736			
30	2638	3241	3894	4160	4250	4283	4127	3576	2968	2752	2724	2631	2580	2519	2506	2481			
35	2345	3021	3793	4065	4162	4213	4062	3397	2692	2510	2477	2395	2358	2251	2215	2204			
40	2057	2805	3648	3925	4024	4094	3959	3191	2403	2244	2212	2157	2112	1984	1914	1915			
45	1776	2577	3441	3744	3862	3935	3797	2981	2119	1964	1940	1891	1847	1710	1627	1618			
50	1505	2350	3182	3539	3685	3753	3572	2767	1840	1667	1647	1584	1415	1328	1286	1310			
55	1243	2125	2866	3321	3522	3563	3291	2546	1567	1372	1342	1096	966	855	986	1034			
60	989	1900	2482	3114	3286	3393	2948	2326	1300	1093	992	767	528	526	611	751			
65	747	1655	2051	2537	2329	2920	2565	2094	1035	832	632	400	317	300	379	518			
70	516	1364	1616	1296	838	1695	2178	1830	770	593	337	260	234	217	211	314			
75	311	993	1289	220	177	277	1815	1474	508	348	206	178	184	169	148	172			
80	147	460	459	132	139	160	822	911	280	155	135	112	95.3	92.3	94.0	81.0			
85	36.4	96.6	113	76.9	73.4	107	208	265	107	60.5	64.0	34.8	28.3	22.9	24.6	27.7			
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: