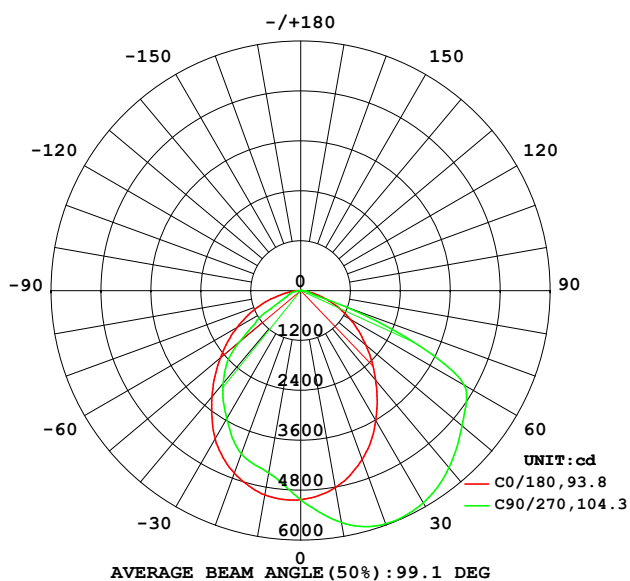
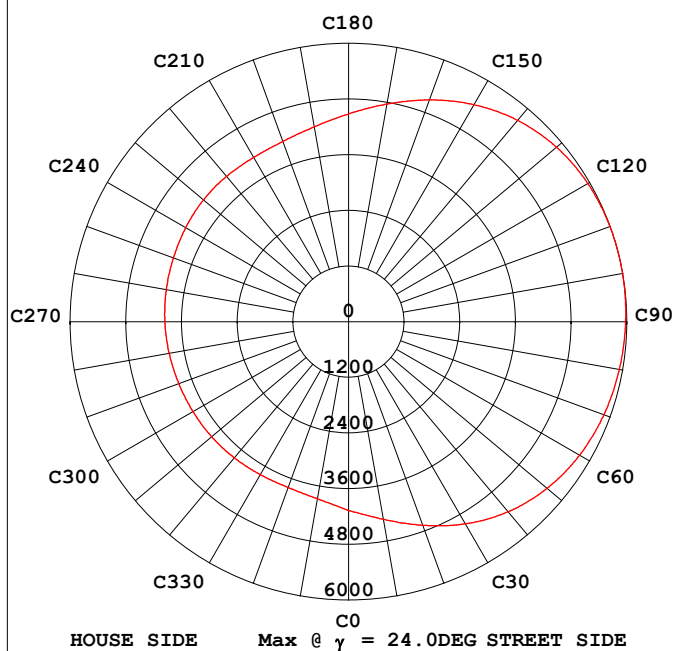


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.39V I:0.7647A P:91.337W PF:0.9921 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14476.1x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.49 lm/W			
MODEL	WP28-14-120L-S2D4C3	Imax(cd)	5992	η street_up(%)	0.0
NOMINAL POWER(W)	90	LOR(%)	100.0	η street_down(%)	65.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	14476	η house_up(%)	0.0
NOMINAL FLUX(lm)	14476.1	MAXIMUM @ (C, γ)	113,24.0	η house_down(%)	34.9
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	120	η down(%)	100.0	SLI	21.213

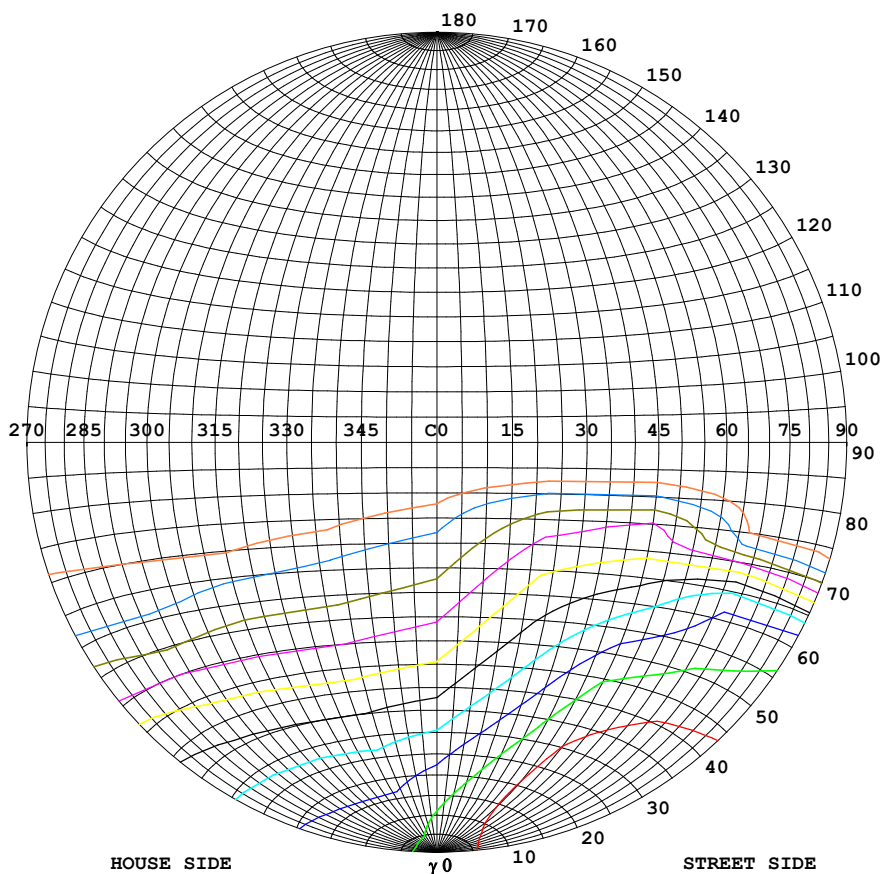
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:120.39V I:0.7647A P:91.337W PF:0.9921 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14476.1x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



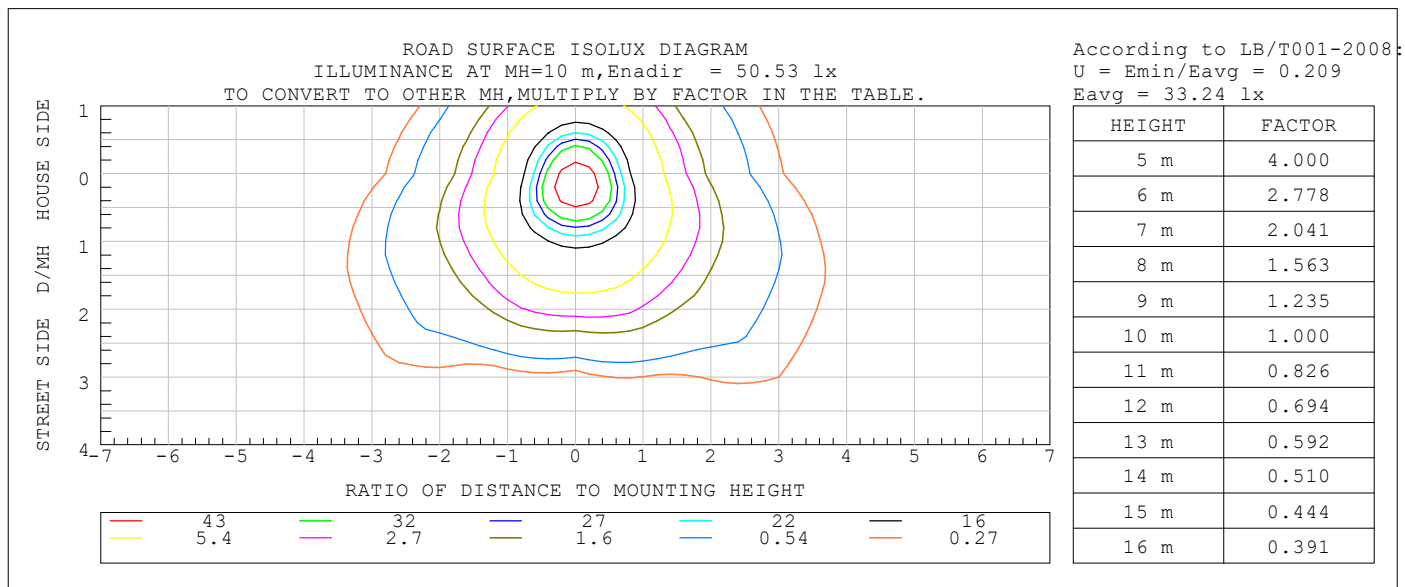
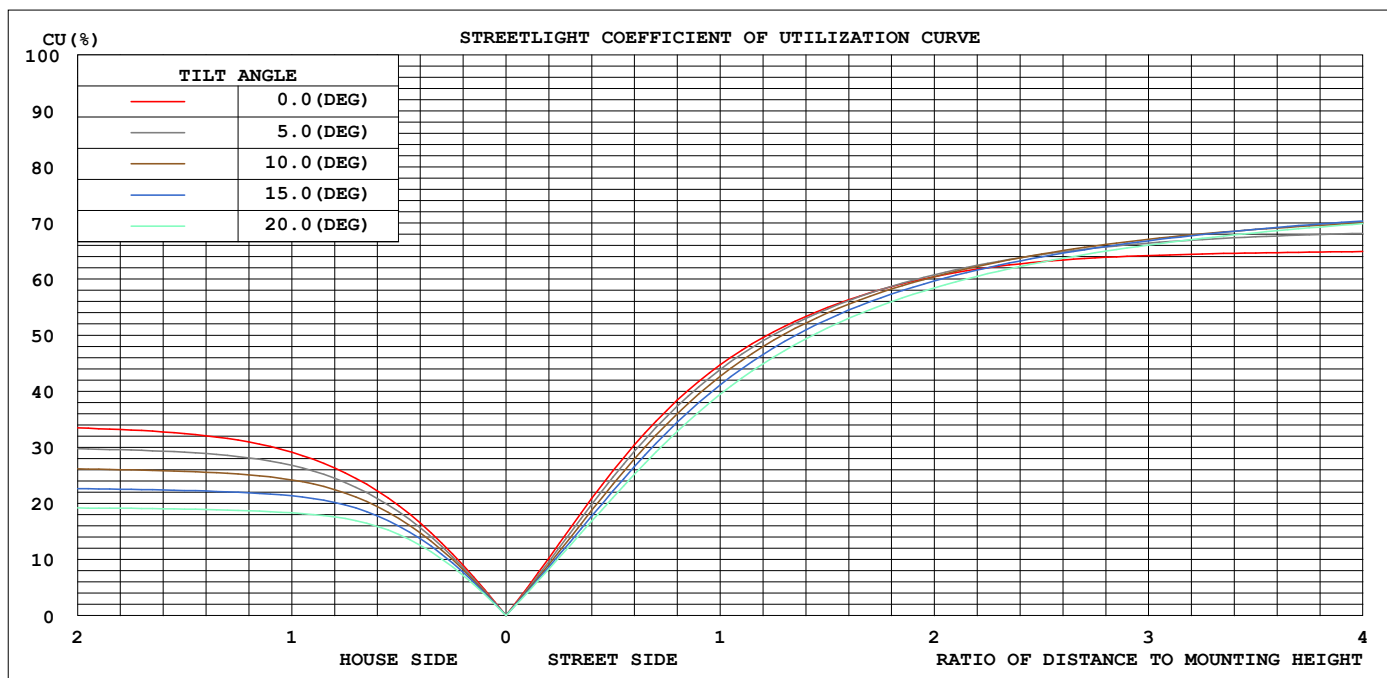
Classification:

IES:Type III - Very Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:83.38cd/klm
Max.At90:0cd/klm
Max.80-90:83.38cd/klm
NRB 5101:Semi limited[12.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5992
90%	5393
80%	4794
70%	4195
60%	3595
50%	2996
40%	2397
30%	1798
20%	1198
10%	599
5%	300

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:

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:120.39V I:0.7647A P:91.337W PF:0.9921 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14476.1x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

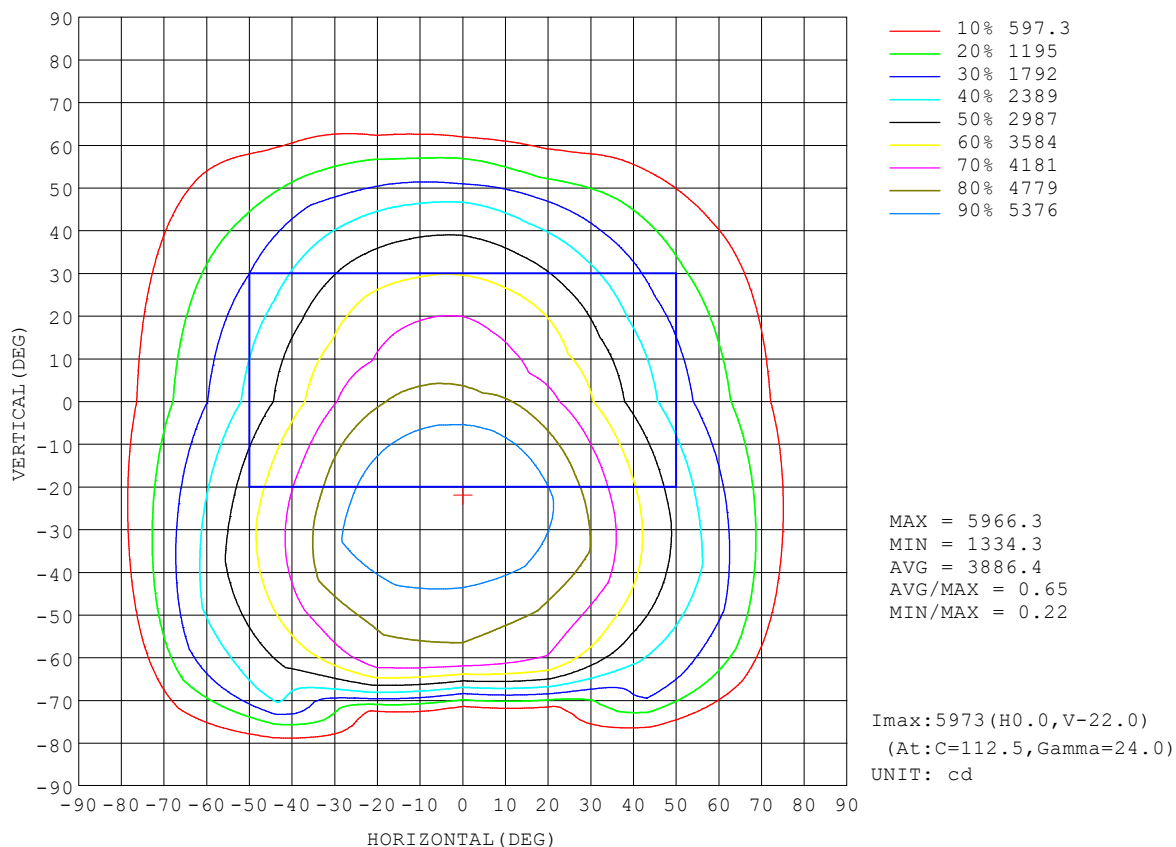
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4806	5362	5662	5490	4989	4568	4454	4463	0- 10	476.8	476.8	3.29,3.29
20	4321	5506	5967	5750	4670	4244	4177	4059	10- 20	1392	1869	12.9,12.9
30	3614	5374	5892	5735	4119	3770	3556	3417	20- 30	2148	4017	27.8,27.8
40	2806	5017	5552	5487	3320	3056	2905	2622	30- 40	2599	6616	45.7,45.7
50	2056	4359	5063	4940	2525	2265	1936	1766	40- 50	2705	9321	64.4,64.4
60	1376	3381	4538	4027	1765	1347	712.5	849.9	50- 60	2437	11758	81.2,81.2
70	721.8	2223	1146	2962	1036	450.8	317.3	288.9	60- 70	1784	13543	93.6,93.6
80	203.6	621.5	193.4	1085	380.3	182.2	130.4	130.3	70- 80	787.5	14330	99,99
90	0	0	0	0	0	0	0	0	80- 90	146.0	14476	100,100
100	0	0	0	0	0	0	0	0	90-100	0	14476	100,100
110	0	0	0	0	0	0	0	0	100-110	0	14476	100,100
120	0	0	0	0	0	0	0	0	110-120	0	14476	100,100
130	0	0	0	0	0	0	0	0	120-130	0	14476	100,100
140	0	0	0	0	0	0	0	0	130-140	0	14476	100,100
150	0	0	0	0	0	0	0	0	140-150	0	14476	100,100
160	0	0	0	0	0	0	0	0	150-160	0	14476	100,100
170	0	0	0	0	0	0	0	0	160-170	0	14476	100,100
180	0	0	0	0	0	0	0	0	170-180	0	14476	100,100
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

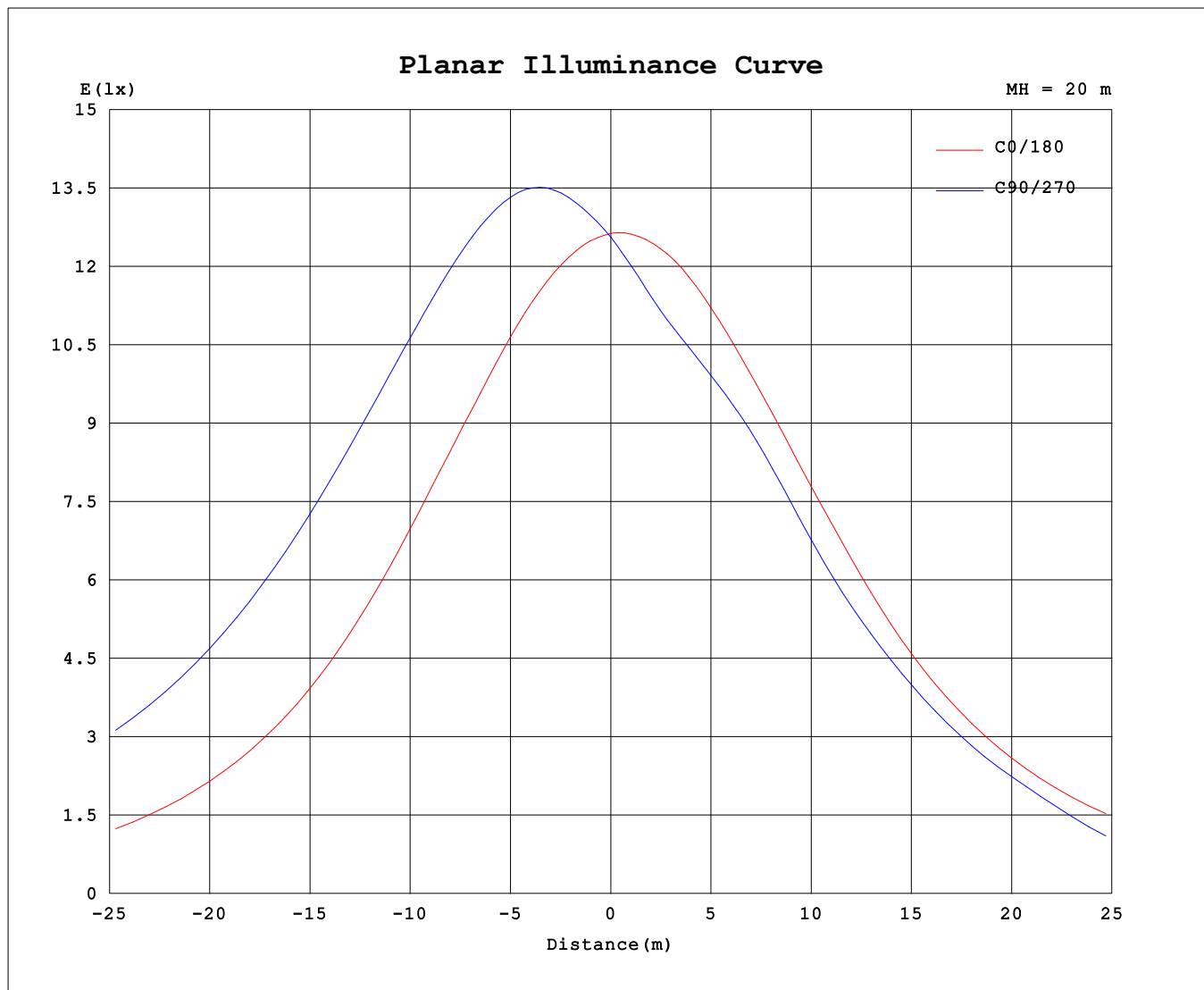
Test:U:120.39V I:0.7647A P:91.337W PF:0.9921 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14476.1x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



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

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



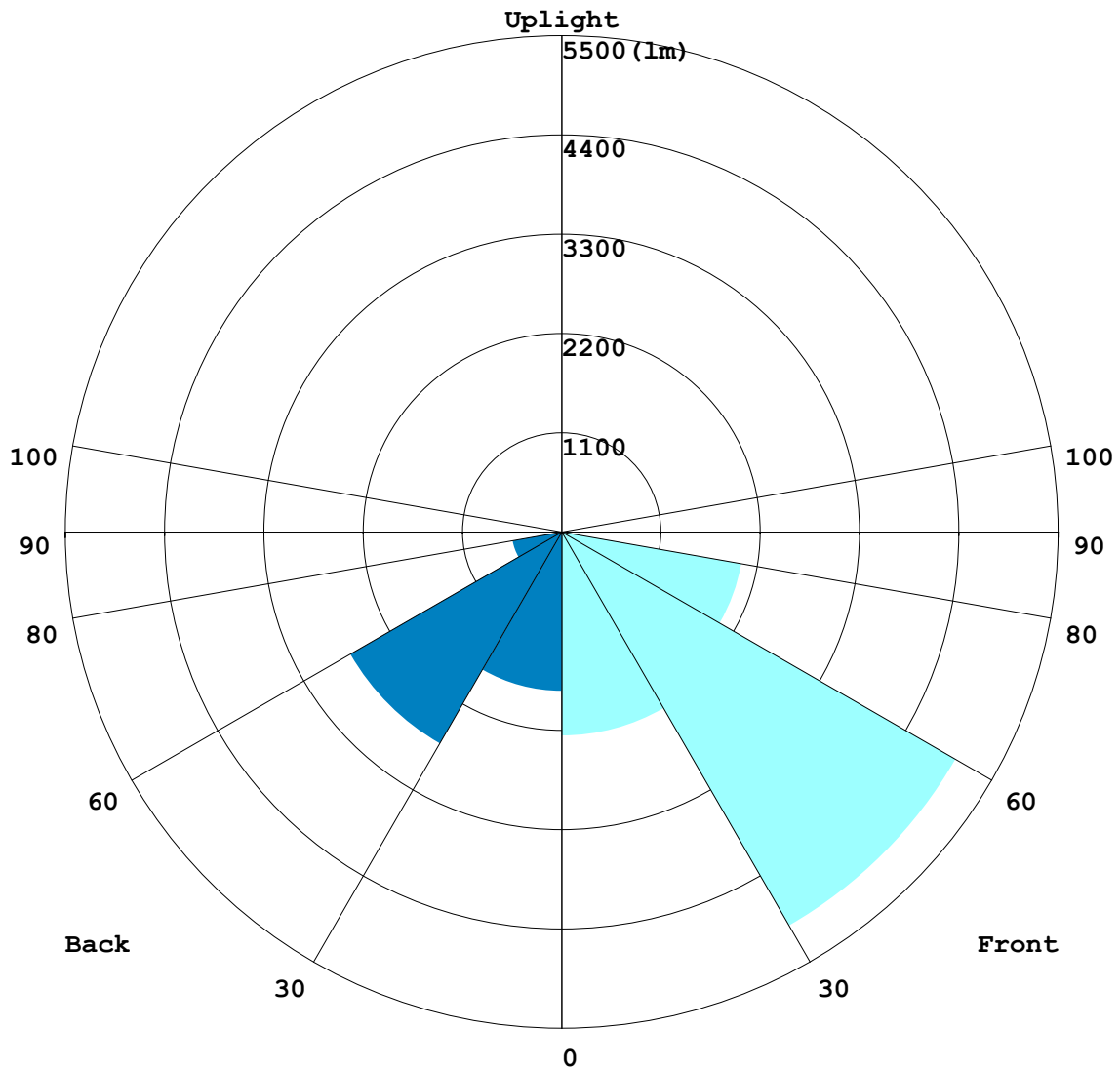
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-04-22

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:120.39V I:0.7647A P:91.337W PF:0.9921 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14476.1x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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:2025-04-22

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:120.39V I:0.7647A P:91.337W PF:0.9921 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14476.1x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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)	2256.7	15.6
FM - Front-Medium(30-60)	5035.5	34.8
FH - Front-High(60-80)	2019.3	13.9
FVH - Front-Very High(80-90)	106.37	0.7
Total Forward Light	9417.9	65.1

BL - Back-Low(0-30)	1760.6	12.2
BM - Back-Medium(30-60)	2705.5	18.7
BH - Back-High(60-80)	552.48	3.8
BVH - Back-Very High(80-90)	39.66	0.3
Total Back Light	5058.2	34.9

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	5058.2	0	5058.2
Street Side	9417.9	0	9417.9

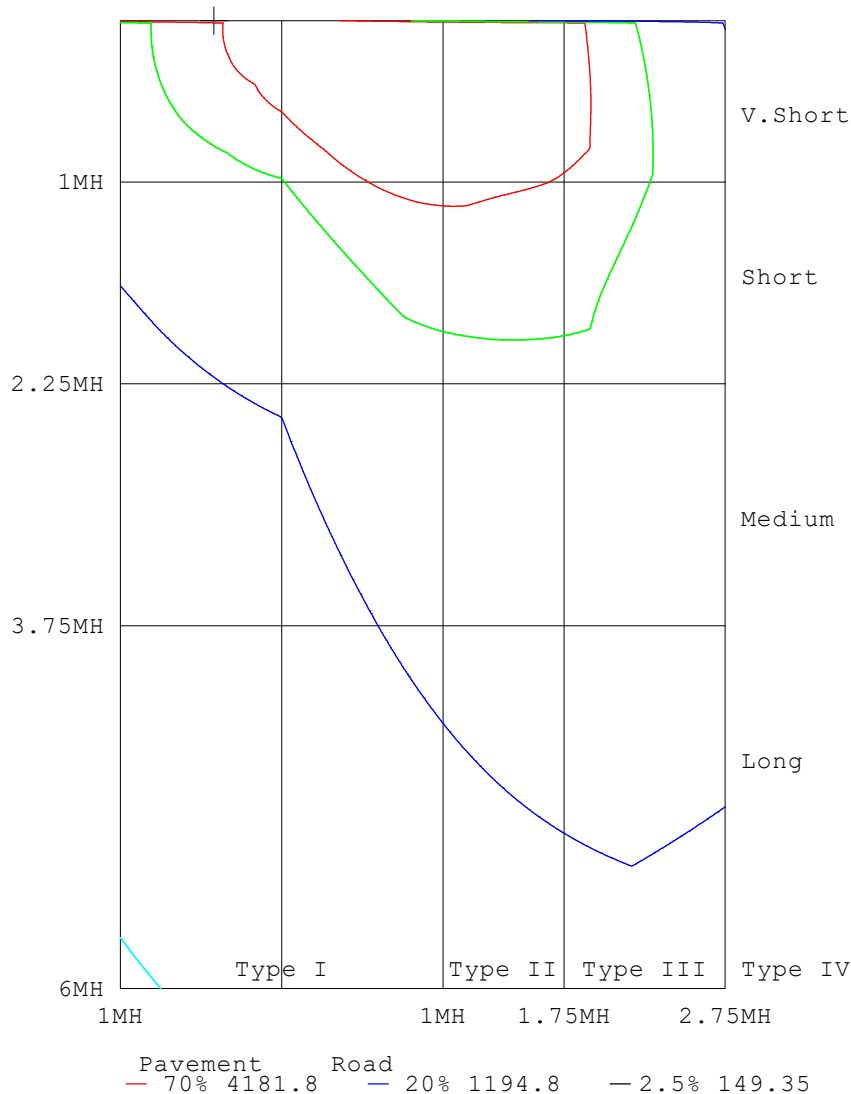
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-22

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:120.39V I:0.7647A P:91.337W PF:0.9921 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14476.1x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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:2025-04-22

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:120.39V I:0.7647A P:91.337W PF:0.9921 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14476.1x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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	5027	5027	5027	5027	5027	5027	5027	5027	5027	5027	5027	5027	5027	5027	5027	5027			
5	4949	5086	5210	5307	5353	5341	5271	5174	5038	4906	4794	4725	4687	4690	4734	4824			
10	4806	5094	5362	5566	5662	5635	5490	5260	4989	4739	4568	4489	4454	4437	4463	4579			
15	4596	5036	5468	5756	5871	5854	5658	5282	4857	4526	4392	4354	4325	4280	4260	4322			
20	4321	4899	5506	5838	5967	5971	5750	5245	4670	4303	4244	4215	4177	4106	4059	4044			
25	4002	4719	5468	5829	5967	5990	5772	5146	4426	4070	4048	3969	3896	3824	3786	3736			
30	3614	4469	5374	5756	5892	5937	5735	4977	4119	3793	3770	3636	3556	3466	3417	3408			
35	3206	4185	5232	5616	5754	5820	5635	4728	3725	3457	3424	3304	3248	3103	3028	3024			
40	2806	3863	5017	5413	5552	5641	5487	4434	3320	3086	3056	2972	2905	2728	2622	2622			
45	2426	3556	4735	5149	5310	5408	5266	4155	2920	2695	2676	2595	2533	2314	2224	2209			
50	2056	3250	4359	4855	5063	5143	4940	3853	2525	2283	2265	2175	1936	1799	1766	1812			
55	1712	2942	3910	4553	4846	4876	4527	3545	2142	1869	1835	1496	1320	1153	1356	1430			
60	1376	2634	3381	4284	4538	4661	4027	3232	1765	1477	1347	1056	712	718	850	1048			
65	1045	2313	2799	3515	3164	4036	3491	2903	1397	1114	854	548	431	411	536	719			
70	722	1927	2223	1761	1146	2274	2962	2515	1036	793	451	355	317	299	289	434			
75	435	1399	1819	301	239	418	2527	2021	684	470	278	242	253	229	202	234			
80	204	604	621	182	193	217	1085	1207	380	210	182	155	130	126	130	111			
85	51.1	123	148	109	103	148	263	322	145	81.6	86.6	47.2	38.7	31.3	34.7	38.7			
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:2025-04-22

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: