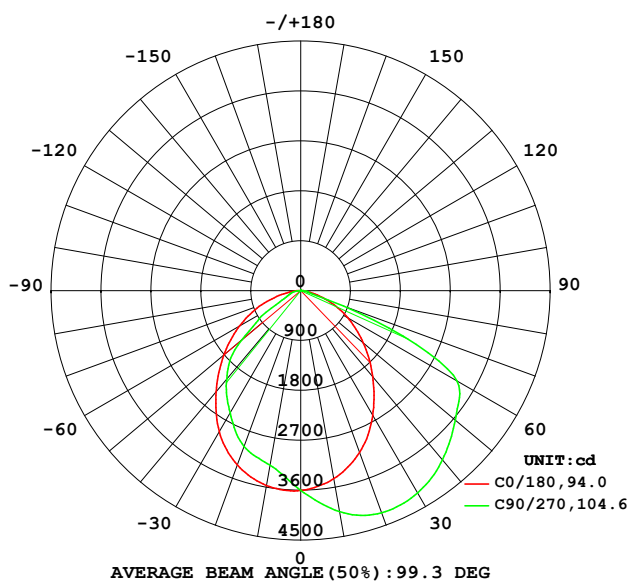
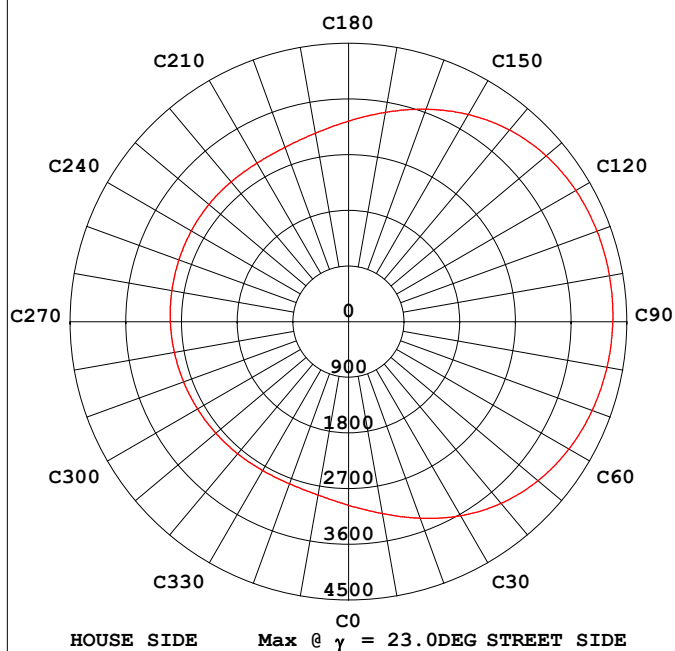


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.50V I:0.5128A P:60.594W PF:0.9806 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10482.7x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 171.26 lm/W			
MODEL	WP28-14-120L-S2D4C3	Imax(cd)	4272	η street_up(%)	0.0
NOMINAL POWER(W)	60	LOR(%)	99.0	η street_down(%)	64.4
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	10378	η house_up(%)	0.0
NOMINAL FLUX(lm)	10482.7	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	20.731

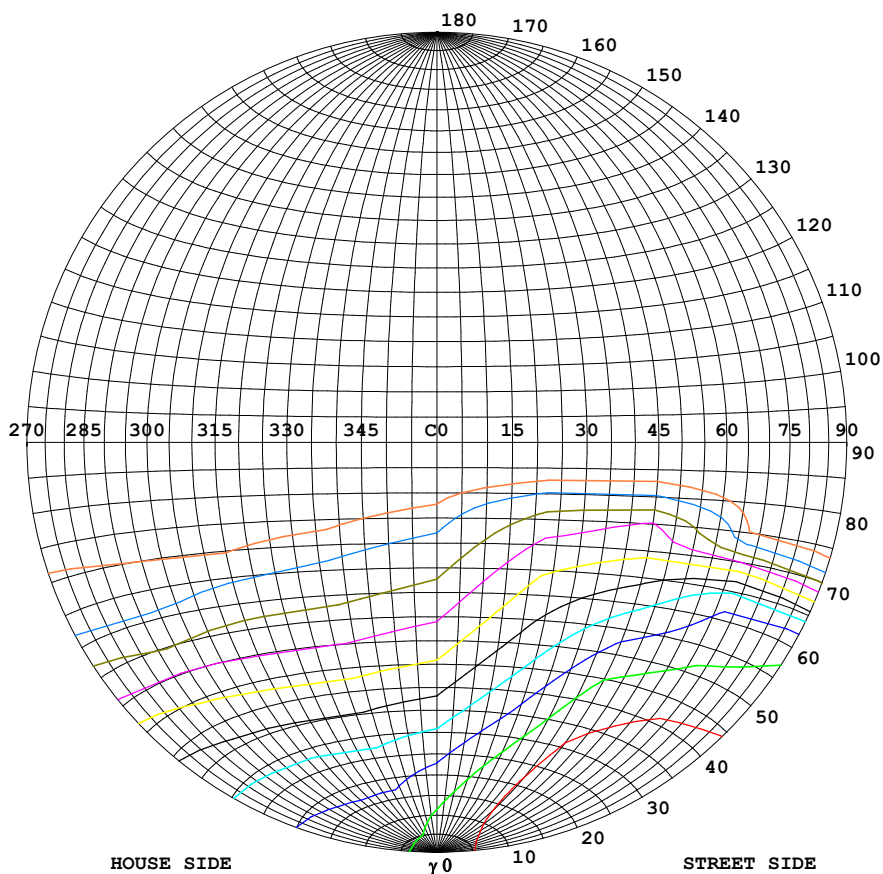
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:120.50V I:0.5128A P:60.594W PF:0.9806 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10482.7x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



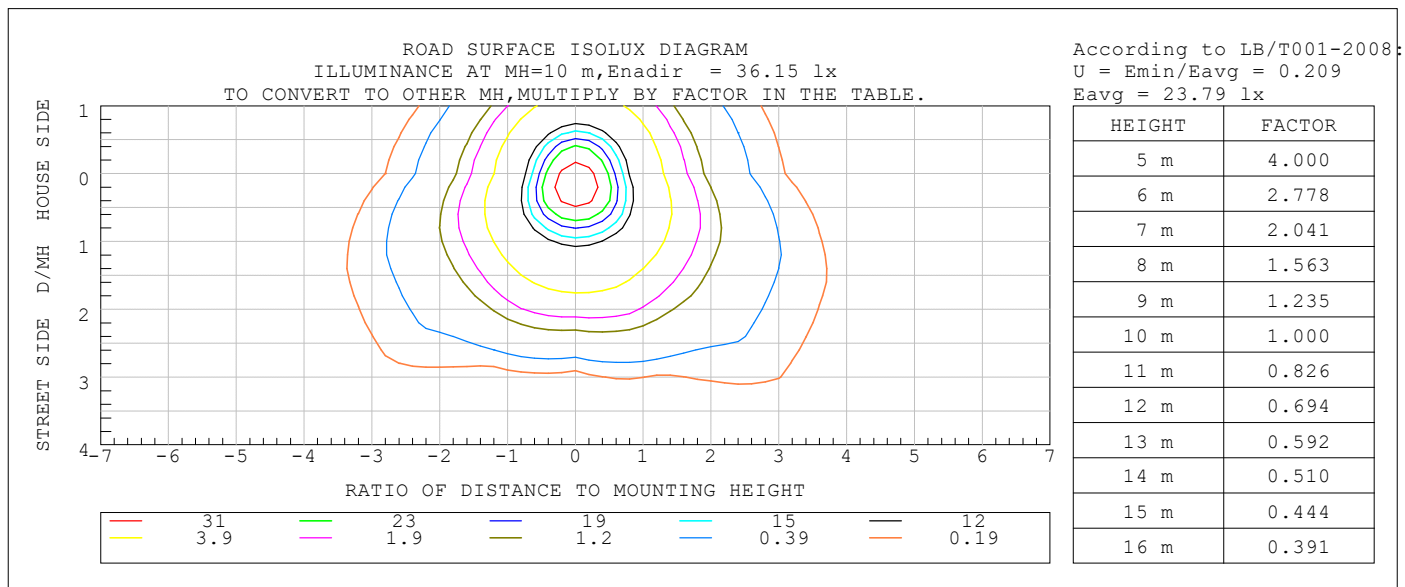
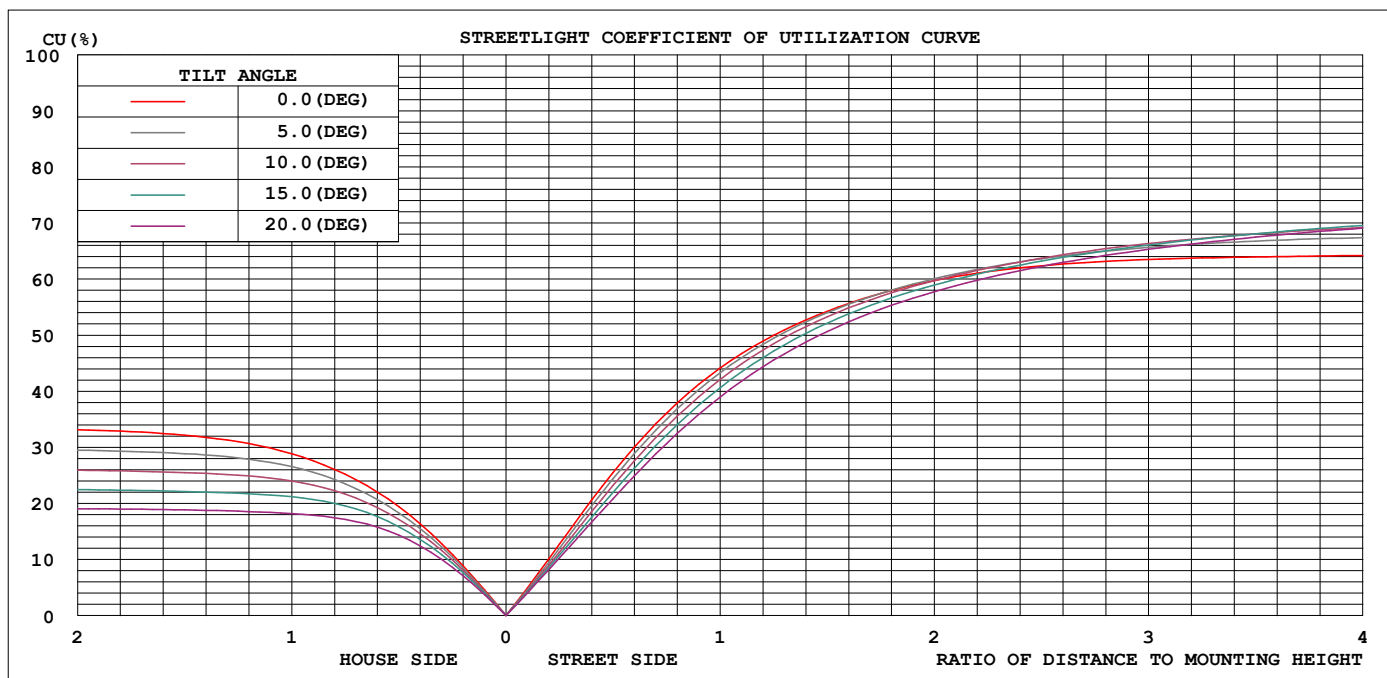
Classification:

IES:Type III - Very Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:84.38cd/klm
Max.At90:0cd/klm
Max.80-90:84.38cd/klm
NRB 5101:Semi limited[12.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4272
90%	3845
80%	3417
70%	2990
60%	2563
50%	2136
40%	1709
30%	1282
20%	854
10%	427
5%	214

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:120.50V I:0.5128A P:60.594W PF:0.9806 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10482.7x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

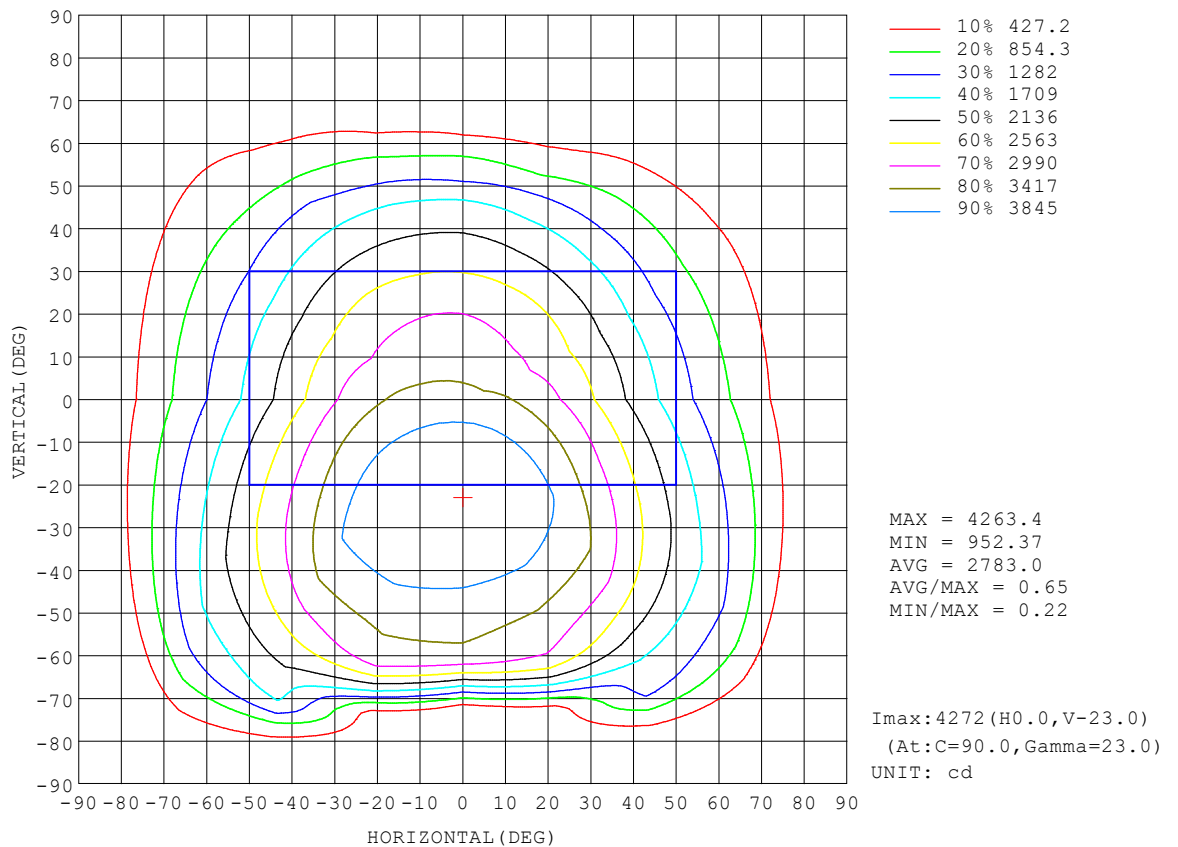
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3444	3830	4048	3921	3568	3269	3197	3201	0- 10	341.4	341.4	3.29,3.26
20	3106	3930	4263	4105	3345	3032	2991	2903	10- 20	995.8	1337	12.9,12.8
30	2600	3847	4215	4092	2940	2692	2548	2460	20- 30	1538	2875	27.7,27.4
40	2022	3600	3979	3921	2374	2185	2082	1883	30- 40	1861	4736	45.6,45.2
50	1481	3131	3640	3533	1812	1624	1395	1266	40- 50	1939	6675	64.3,63.7
60	979.6	2435	3257	2898	1273	973.5	516.1	606.3	50- 60	1748	8424	81.2,80.4
70	512.4	1594	825.3	2137	752.2	328.2	229.2	207.1	60- 70	1281	9705	93.5,92.6
80	145.2	450.9	137.5	807.9	274.5	132.0	93.88	92.84	70- 80	565.6	10270	99,98
90	0	0	0	0	0	0	0	0	80- 90	107.2	10378	100,99
100	0	0	0	0	0	0	0	0	90-100	0	10378	100,99
110	0	0	0	0	0	0	0	0	100-110	0	10378	100,99
120	0	0	0	0	0	0	0	0	110-120	0	10378	100,99
130	0	0	0	0	0	0	0	0	120-130	0	10378	100,99
140	0	0	0	0	0	0	0	0	130-140	0	10378	100,99
150	0	0	0	0	0	0	0	0	140-150	0	10378	100,99
160	0	0	0	0	0	0	0	0	150-160	0	10378	100,99
170	0	0	0	0	0	0	0	0	160-170	0	10378	100,99
180	0	0	0	0	0	0	0	0	170-180	0	10378	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

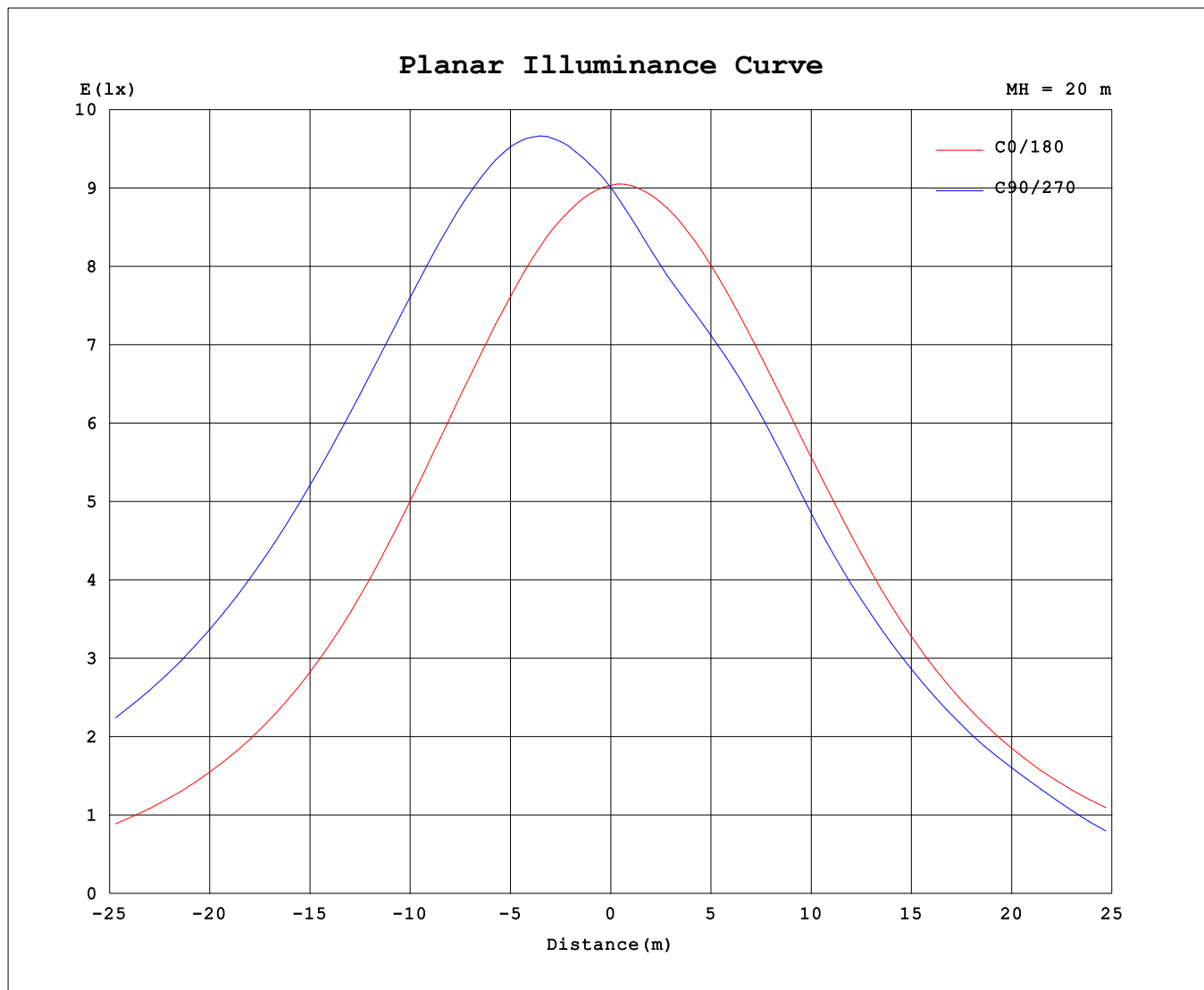
Test:U:120.50V I:0.5128A P:60.594W PF:0.9806 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10482.7x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



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

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

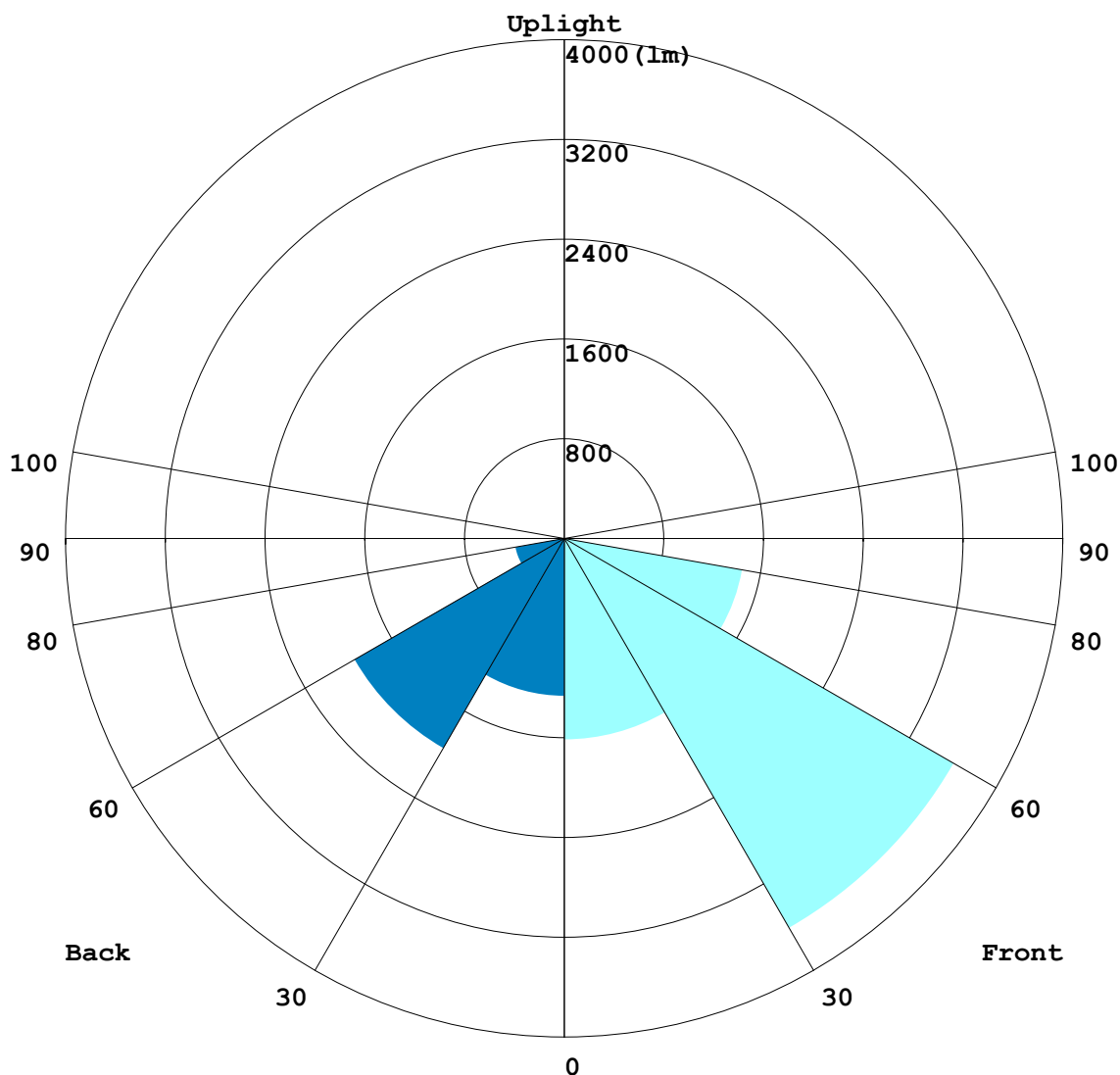


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-04-23

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:120.50V I:0.5128A P:60.594W PF:0.9806 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10482.7x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	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°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:

BUG REPORT

Test:U:120.50V I:0.5128A P:60.594W PF:0.9806 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10482.7x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	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)	1613.1	15.5
FM - Front-Medium(30-60)	3606.4	34.8
FH - Front-High(60-80)	1448.2	14.0
FVH - Front-Very High(80-90)	78.586	0.8
Total Forward Light	6746.2	65.0

BL - Back-Low(0-30)	1261.7	12.2
BM - Back-Medium(30-60)	1942.4	18.7
BH - Back-High(60-80)	398.63	3.8
BVH - Back-Very High(80-90)	28.62	0.3
Total Back Light	3631.3	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	3631.3	0	3631.3
Street Side	6746.2	0	6746.2

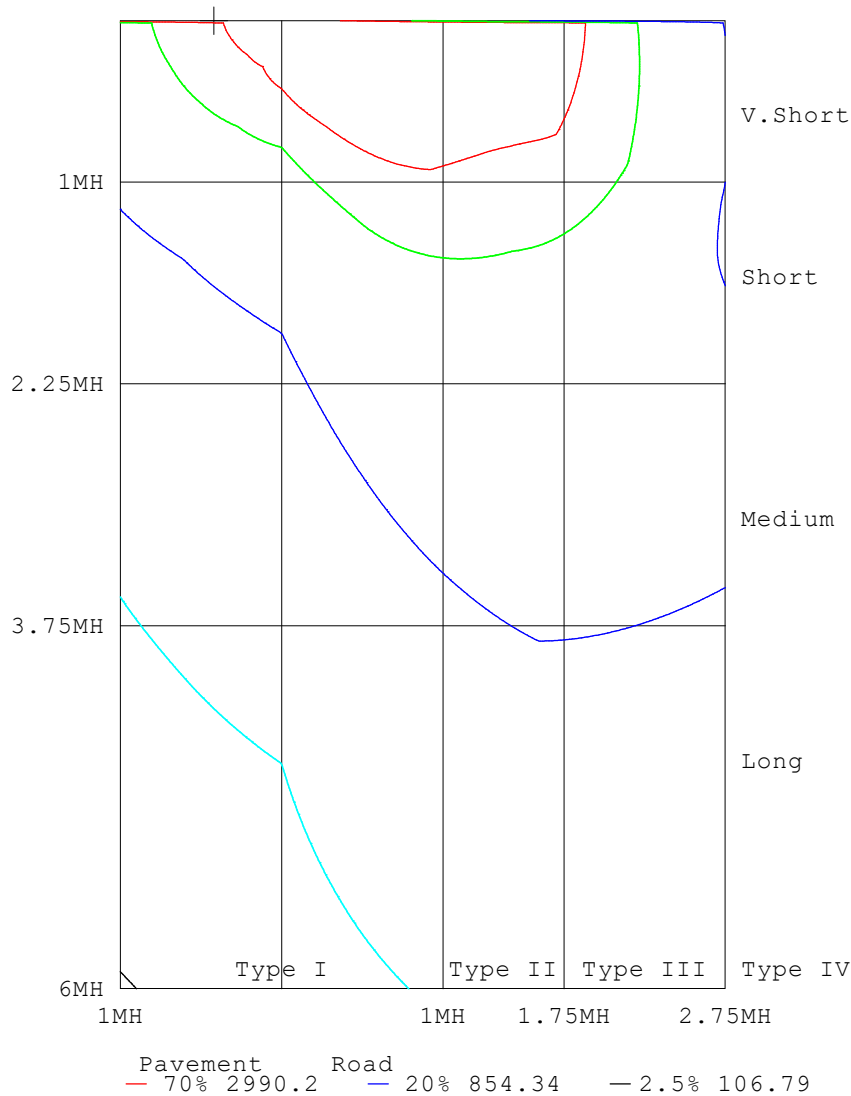
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-23

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:120.50V I:0.5128A P:60.594W PF:0.9806 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10482.7x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	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°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:120.50V I:0.5128A P:60.594W PF:0.9806 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:10482.7x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 60W	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	3602	3602	3602	3602	3602	3602	3602	3602	3602	3602	3602	3602	3602	3602	3602	3602			
5	3543	3637	3726	3795	3829	3821	3772	3700	3609	3514	3440	3390	3365	3366	3392	3455			
10	3444	3637	3830	3977	4048	4031	3921	3758	3568	3390	3269	3221	3197	3181	3201	3284			
15	3293	3596	3905	4107	4195	4176	4035	3771	3480	3242	3144	3123	3103	3068	3047	3097			
20	3106	3513	3930	4169	4263	4255	4105	3745	3345	3084	3032	3018	2991	2944	2903	2908			
25	2874	3384	3910	4168	4265	4268	4118	3677	3167	2918	2892	2844	2792	2746	2710	2694			
30	2600	3201	3847	4118	4215	4231	4092	3551	2940	2718	2692	2605	2548	2489	2460	2450			
35	2310	2984	3746	4020	4120	4157	4026	3373	2663	2479	2448	2370	2328	2228	2177	2177			
40	2022	2765	3600	3875	3979	4036	3921	3167	2374	2214	2185	2132	2082	1961	1883	1889			
45	1748	2542	3394	3691	3813	3873	3761	2957	2090	1939	1914	1867	1818	1672	1599	1593			
50	1481	2319	3131	3485	3640	3687	3533	2743	1812	1643	1624	1565	1395	1304	1266	1295			
55	1224	2097	2816	3270	3482	3494	3248	2524	1541	1348	1320	1078	949	835	971	1023			
60	980	1876	2435	3069	3257	3336	2898	2301	1273	1067	974	758	516	517	606	749			
65	742	1640	2015	2512	2300	2879	2518	2069	1011	809	617	393	311	295	379	514			
70	512	1360	1594	1272	825	1650	2137	1799	752	577	328	256	229	214	207	311			
75	309	989	1303	216	173	269	1803	1449	495	340	201	175	181	166	145	169			
80	145	450	451	130	137	156	808	885	274	152	132	111	93.9	91.2	92.8	79.8			
85	36.0	92.3	109	76.5	72.3	105	207	249	105	59.2	62.8	34.2	28.1	22.6	24.5	27.5			
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: