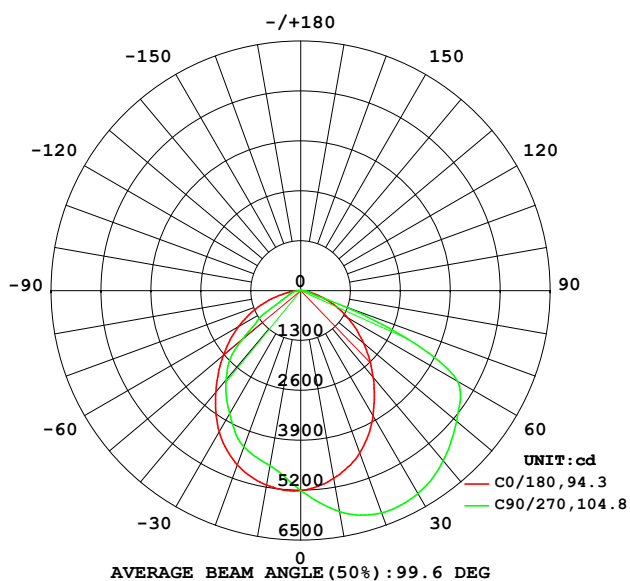
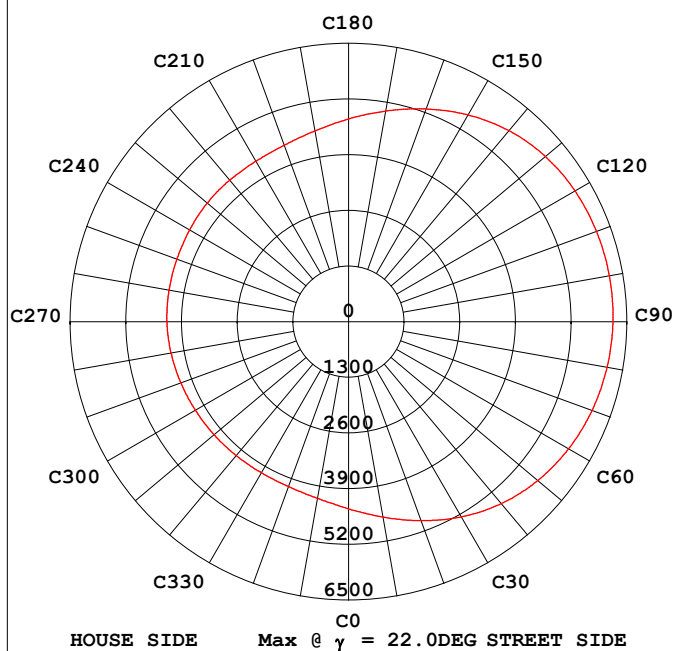


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.39V I:0.7679A P:91.719W PF:0.9922 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15200.4x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 164.07 lm/W			
MODEL	WP28-14-120L-S2D4C3	Imax(cd)	6174	η street_up(%)	0.0
NOMINAL POWER(W)	90	LOR(%)	99.0	η street_down(%)	64.3
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	15048	η house_up(%)	0.0
NOMINAL FLUX(lm)	15200.4	MAXIMUM @ (C, γ)	90,22.0	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	21.260

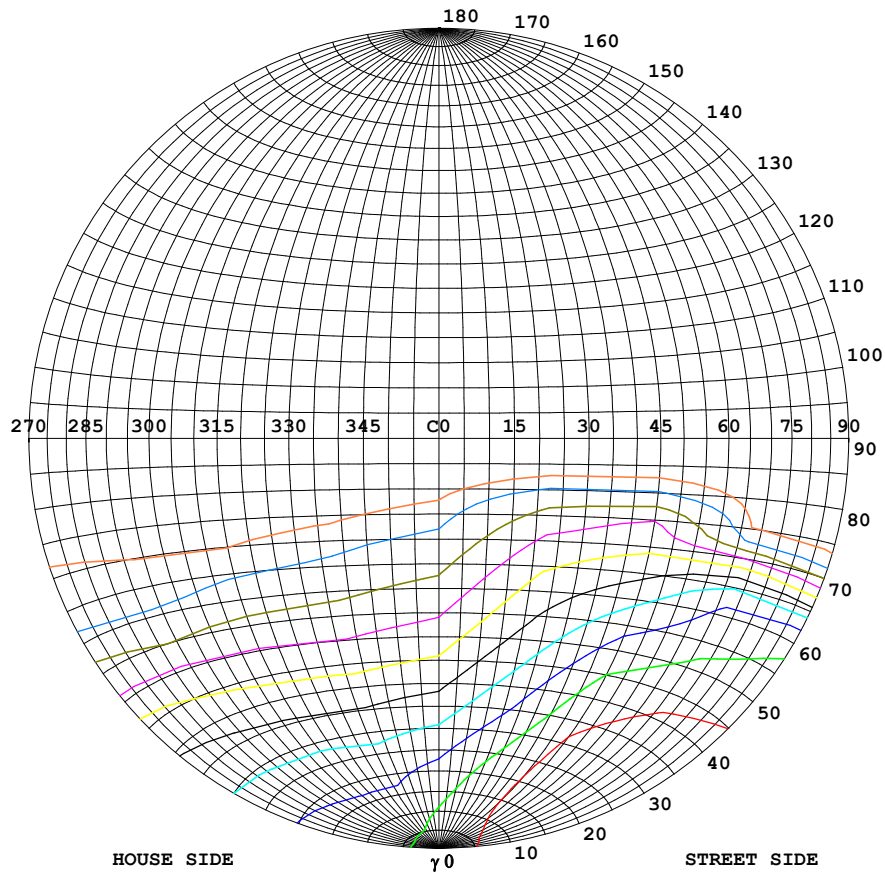
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:0.7679A P:91.719W PF:0.9922 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15200.4x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



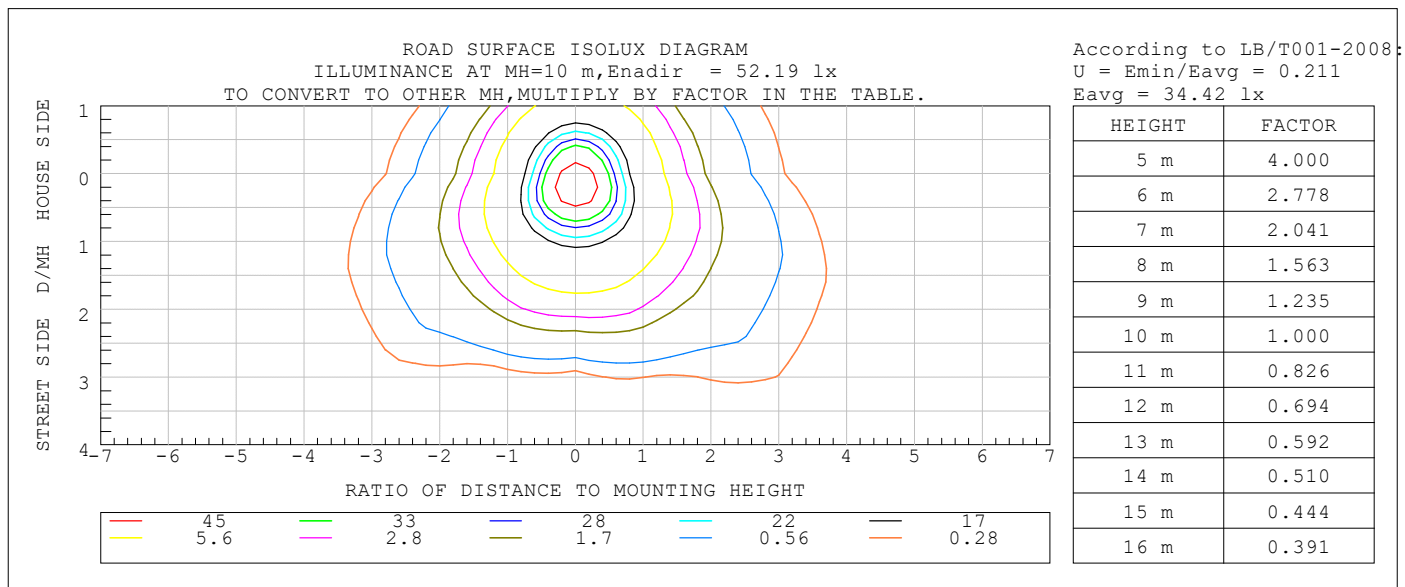
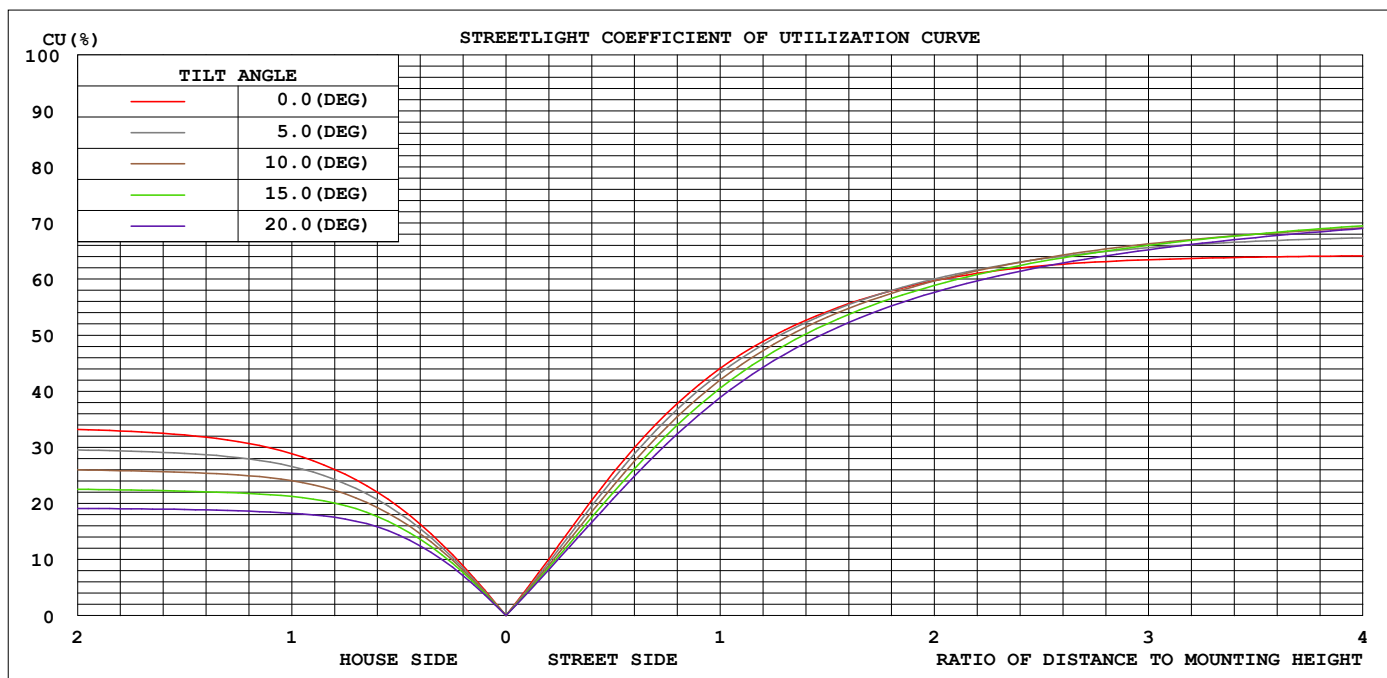
Classification:

IES:Type III - Very Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:85.57cd/klm
Max.At90:0cd/klm
Max.80-90:85.57cd/klm
NRB 5101:Semi limited[12.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6174
90%	5557
80%	4940
70%	4322
60%	3705
50%	3087
40%	2470
30%	1852
20%	1235
10%	617
5%	309

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:120.39V I:0.7679A P:91.719W PF:0.9922 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15200.4x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

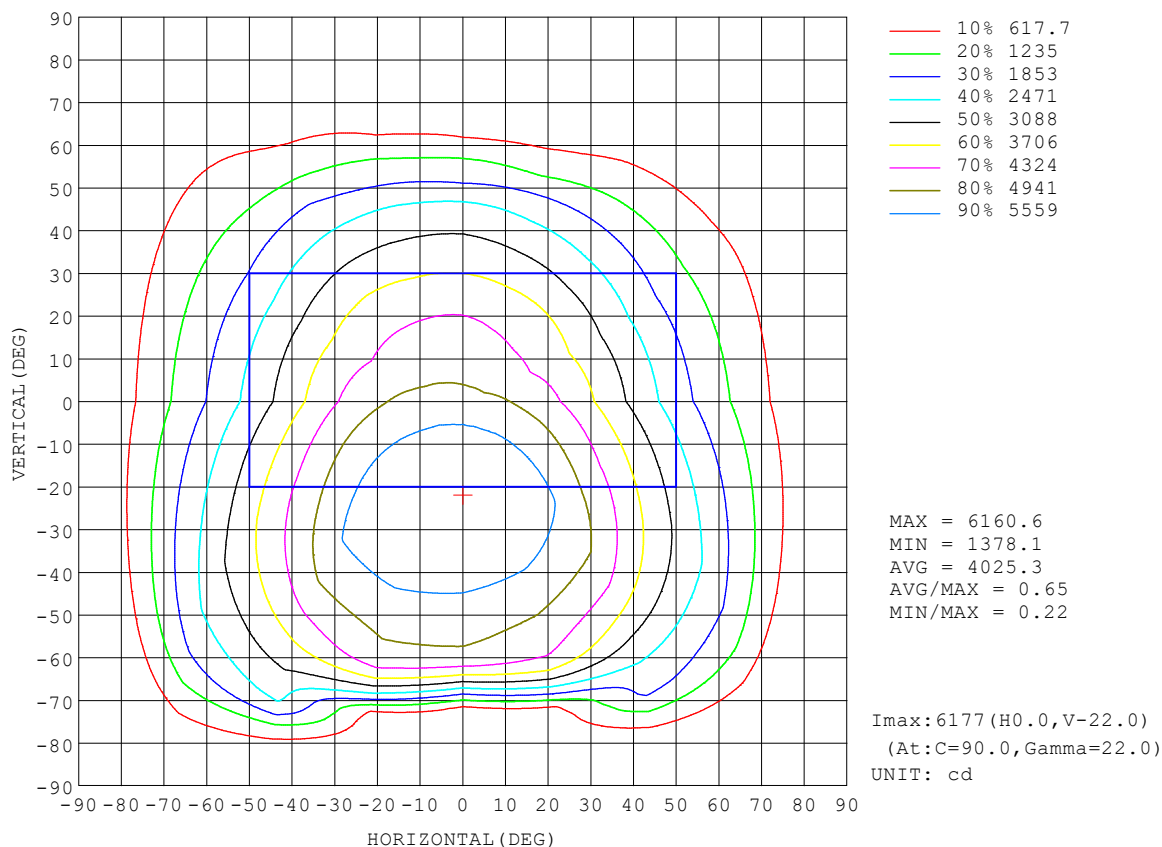
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4965	5524	5842	5651	5144	4729	4630	4630	0- 10	493.2	493.2	3.28,3.24
20	4503	5667	6158	5910	4830	4387	4330	4202	10- 20	1438	1931	12.8,12.7
30	3769	5572	6103	5900	4249	3903	3703	3573	20- 30	2223	4154	27.6,27.3
40	2939	5222	5779	5660	3444	3170	3028	2745	30- 40	2695	6849	45.5,45.1
50	2147	4555	5299	5108	2636	2359	2023	1896	40- 50	2815	9664	64.2,63.6
60	1419	3546	4718	4212	1863	1420	746.0	892.7	50- 60	2544	12208	81.1,80.3
70	739.7	2311	1207	3111	1106	481.8	335.7	305.0	60- 70	1863	14071	93.5,92.6
80	209.7	651.6	200.5	1155	403.9	192.4	136.5	134.7	70- 80	820.2	14891	99,98
90	0	0	0	0	0	0	0	0	80- 90	157.3	15048	100,99
100	0	0	0	0	0	0	0	0	90-100	0	15048	100,99
110	0	0	0	0	0	0	0	0	100-110	0	15048	100,99
120	0	0	0	0	0	0	0	0	110-120	0	15048	100,99
130	0	0	0	0	0	0	0	0	120-130	0	15048	100,99
140	0	0	0	0	0	0	0	0	130-140	0	15048	100,99
150	0	0	0	0	0	0	0	0	140-150	0	15048	100,99
160	0	0	0	0	0	0	0	0	150-160	0	15048	100,99
170	0	0	0	0	0	0	0	0	160-170	0	15048	100,99
180	0	0	0	0	0	0	0	0	170-180	0	15048	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

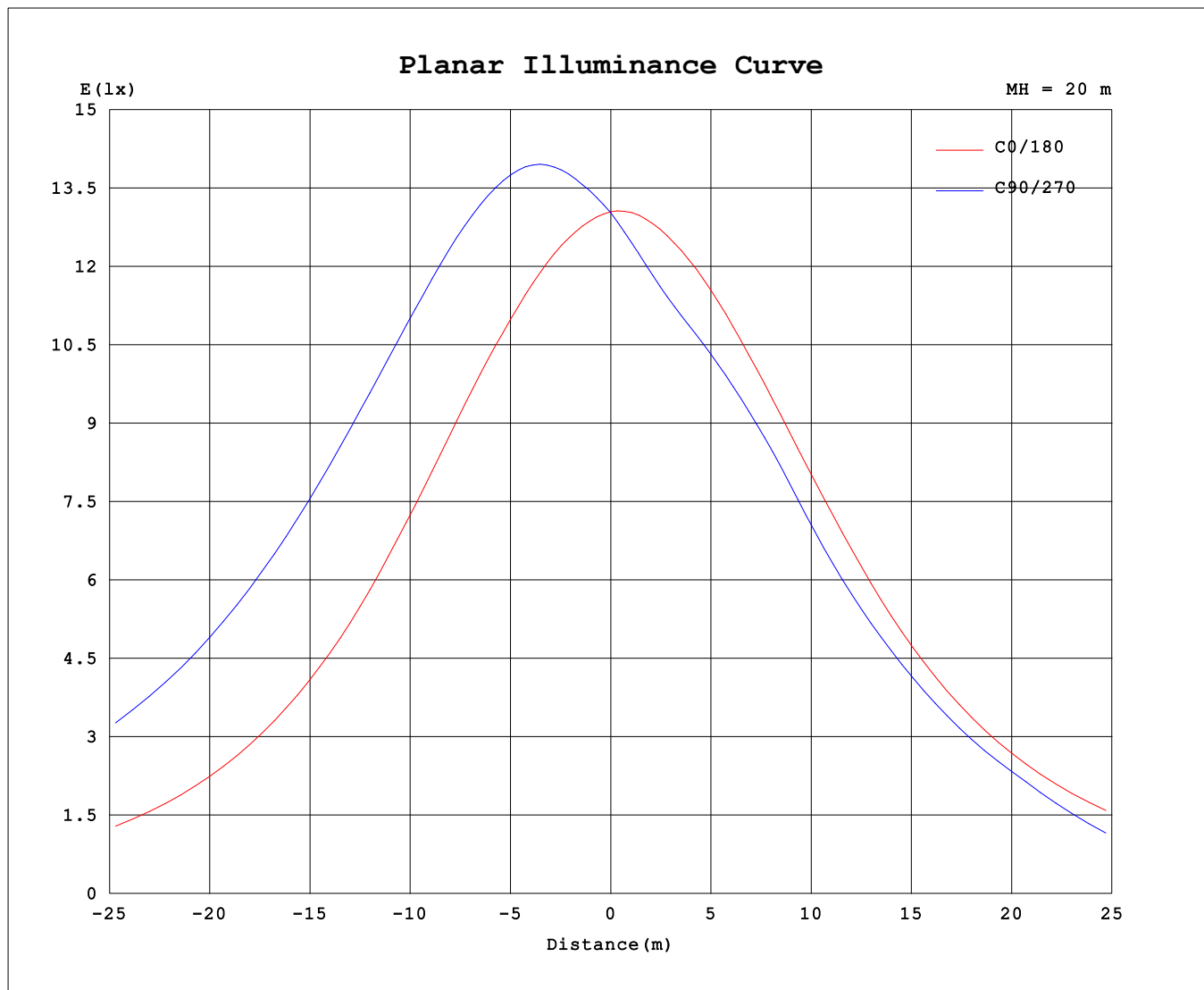
Test:U:120.39V I:0.7679A P:91.719W PF:0.9922 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15200.4x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 5000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



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

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



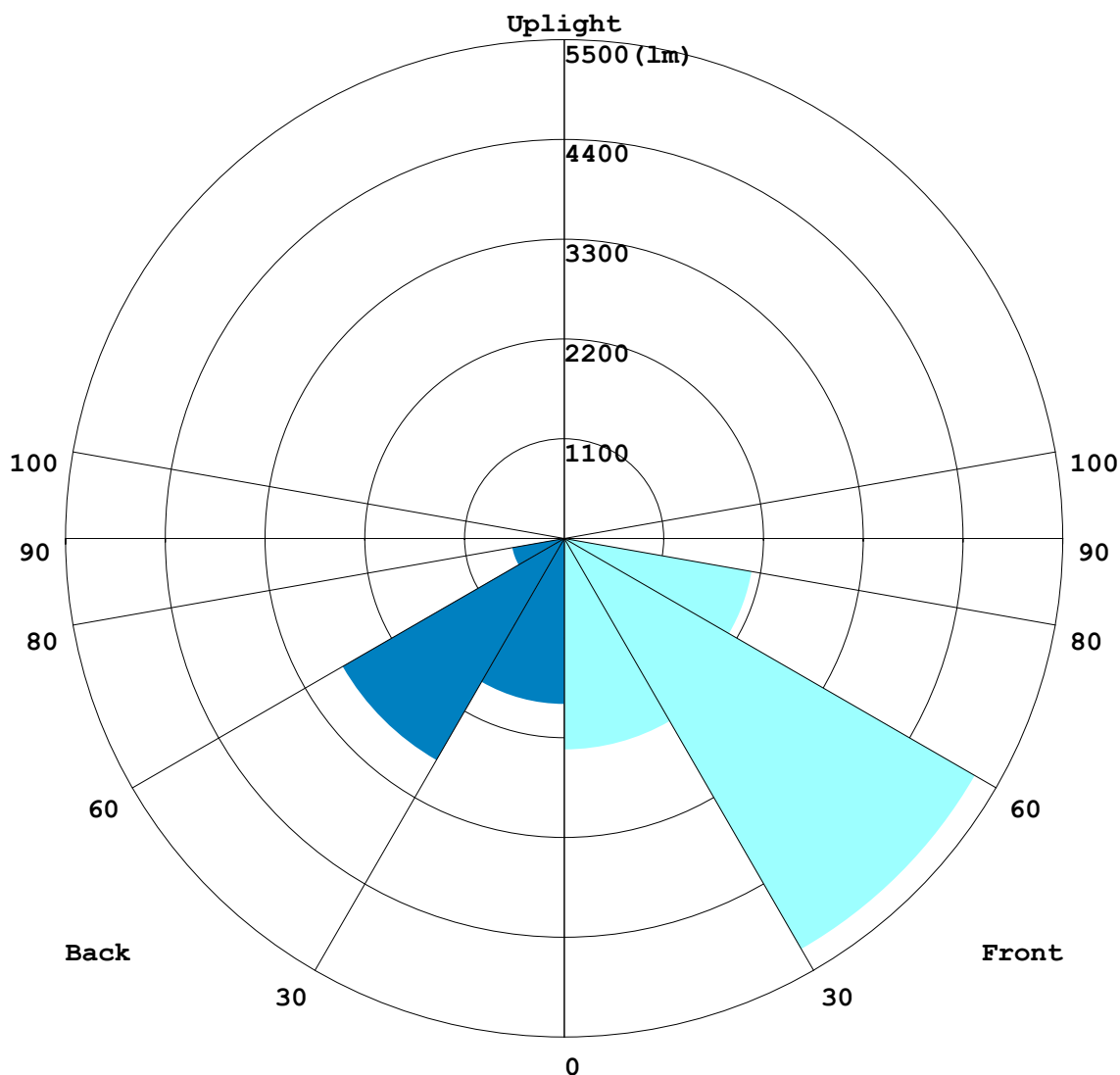
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-04-22

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:0.7679A P:91.719W PF:0.9922 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15200.4x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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:2025-04-22

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:0.7679A P:91.719W PF:0.9922 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15200.4x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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)	2329.2	15.5
FM - Front-Medium(30-60)	5231.2	34.8
FH - Front-High(60-80)	2099.9	14.0
FVH - Front-Very High(80-90)	115.61	0.8
Total Forward Light	9775.9	65.0

BL - Back-Low(0-30)	1824.9	12.1
BM - Back-Medium(30-60)	2822.9	18.8
BH - Back-High(60-80)	582.77	3.9
BVH - Back-Very High(80-90)	41.735	0.3
Total Back Light	5272.3	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-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5272.3	0	5272.3
Street Side	9775.9	0	9775.9

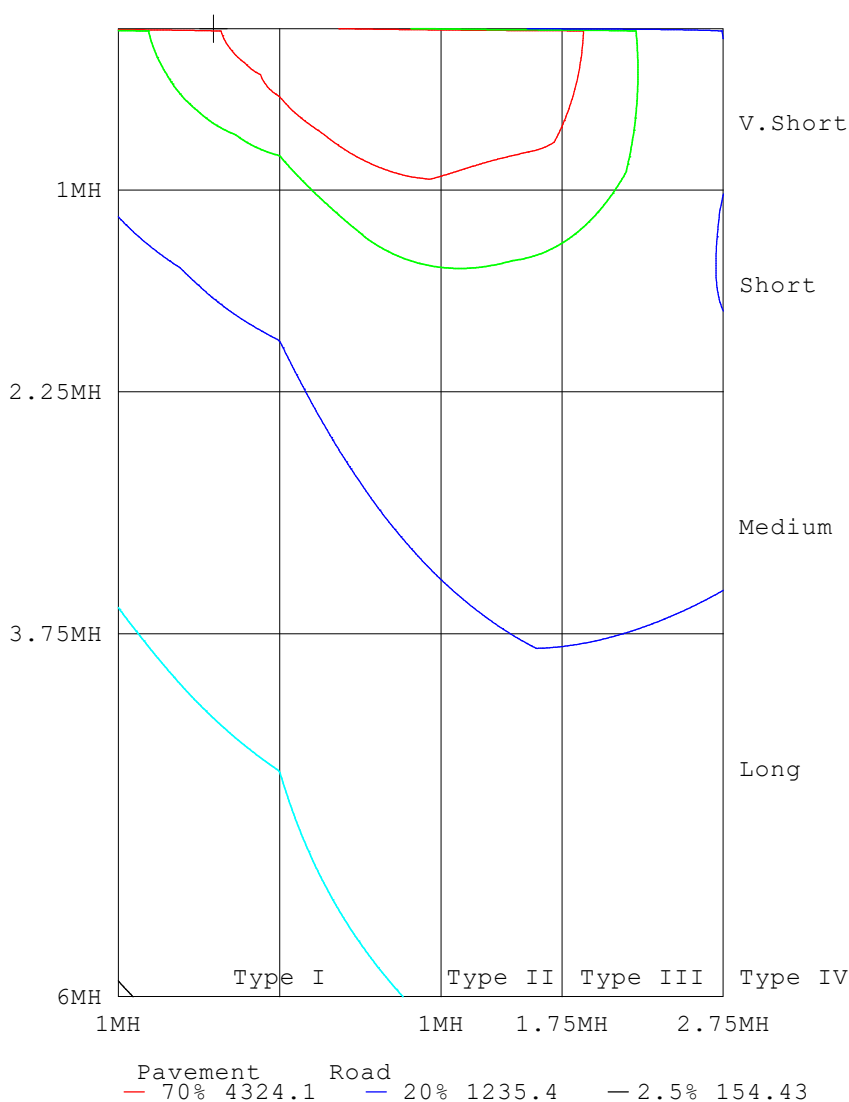
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-22

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:0.7679A P:91.719W PF:0.9922 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15200.4x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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°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:0.7679A P:91.719W PF:0.9922 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15200.4x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208			
5	5115	5250	5378	5480	5531	5522	5454	5343	5213	5081	4979	4907	4868	4871	4909	4989			
10	4965	5248	5524	5738	5842	5820	5651	5410	5144	4890	4729	4660	4630	4606	4630	4743			
15	4760	5189	5633	5926	6053	6029	5810	5436	5019	4681	4544	4517	4493	4443	4408	4473			
20	4503	5088	5667	6017	6158	6133	5910	5394	4830	4456	4387	4359	4330	4262	4202	4205			
25	4162	4897	5649	6021	6165	6156	5936	5296	4574	4218	4194	4106	4057	3978	3928	3882			
30	3769	4632	5572	5960	6103	6110	5900	5114	4249	3928	3903	3764	3703	3611	3573	3539			
35	3349	4319	5427	5823	5975	6011	5813	4859	3859	3584	3550	3423	3380	3255	3157	3146			
40	2939	4021	5222	5624	5779	5845	5660	4564	3444	3203	3170	3081	3028	2867	2745	2725			
45	2537	3697	4925	5366	5549	5622	5426	4275	3036	2804	2780	2700	2645	2450	2320	2307			
50	2147	3374	4555	5073	5299	5360	5108	3971	2636	2378	2359	2260	2023	1954	1896	1880			
55	1782	3050	4101	4760	5067	5087	4704	3654	2249	1956	1922	1569	1388	1234	1404	1486			
60	1419	2727	3546	4463	4718	4843	4212	3338	1863	1566	1420	1095	746	751	893	1109			
65	1071	2375	2934	3638	3340	4175	3665	3005	1485	1193	908	570	451	423	552	742			
70	740	1959	2311	1852	1207	2418	3111	2623	1106	850	482	371	336	307	305	462			
75	446	1427	1805	316	253	448	2589	2114	728	498	295	256	267	240	212	247			
80	210	658	652	190	201	228	1155	1301	404	221	192	162	137	131	135	116			
85	52.0	137	161	112	106	153	292	391	153	86.6	91.7	50.1	40.3	32.5	36.0	40.0			
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: