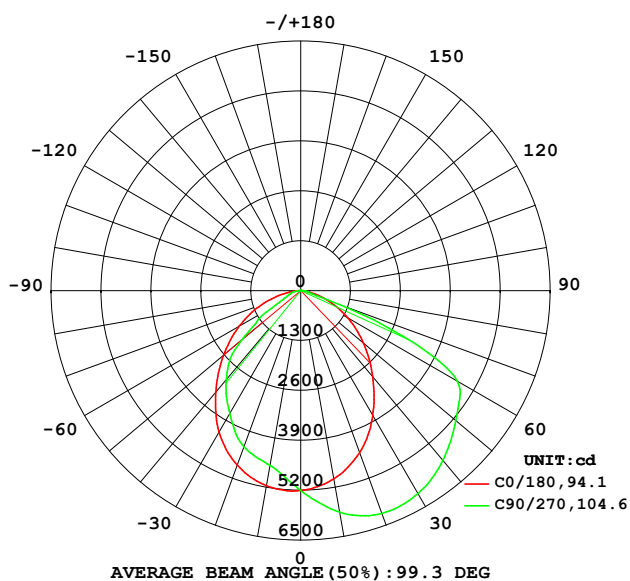
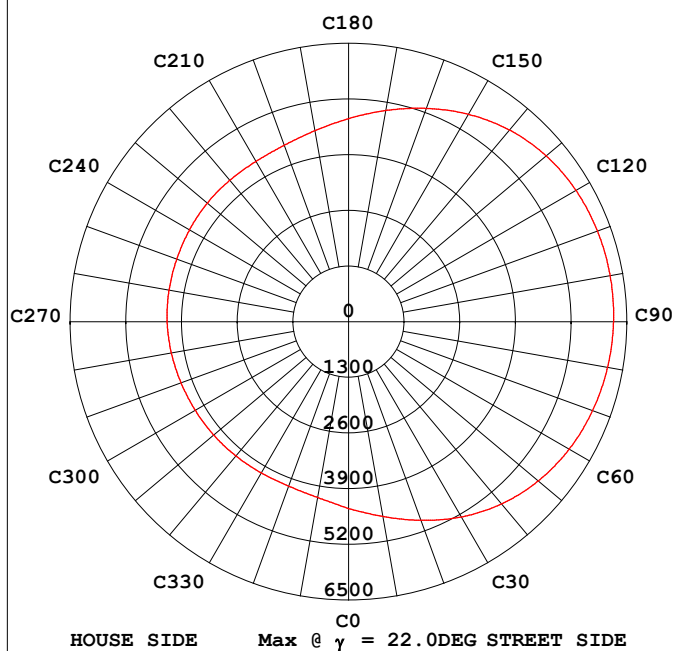


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.39V I:0.7480A P:89.308W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15017.2x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 168.15 lm/W			
MODEL	WP28-14-120L-S2D4C3	I _{max} (cd)	6187	η street_up (%)	0.0
NOMINAL POWER (W)	90	LOR (%)	100.0	η street_down (%)	65.0
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	15017	η house_up (%)	0.0
NOMINAL FLUX (lm)	15017.2	MAXIMUM @ (C, γ)	90,22.0	η house_down (%)	35.0
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	100.0	SLI	21.260

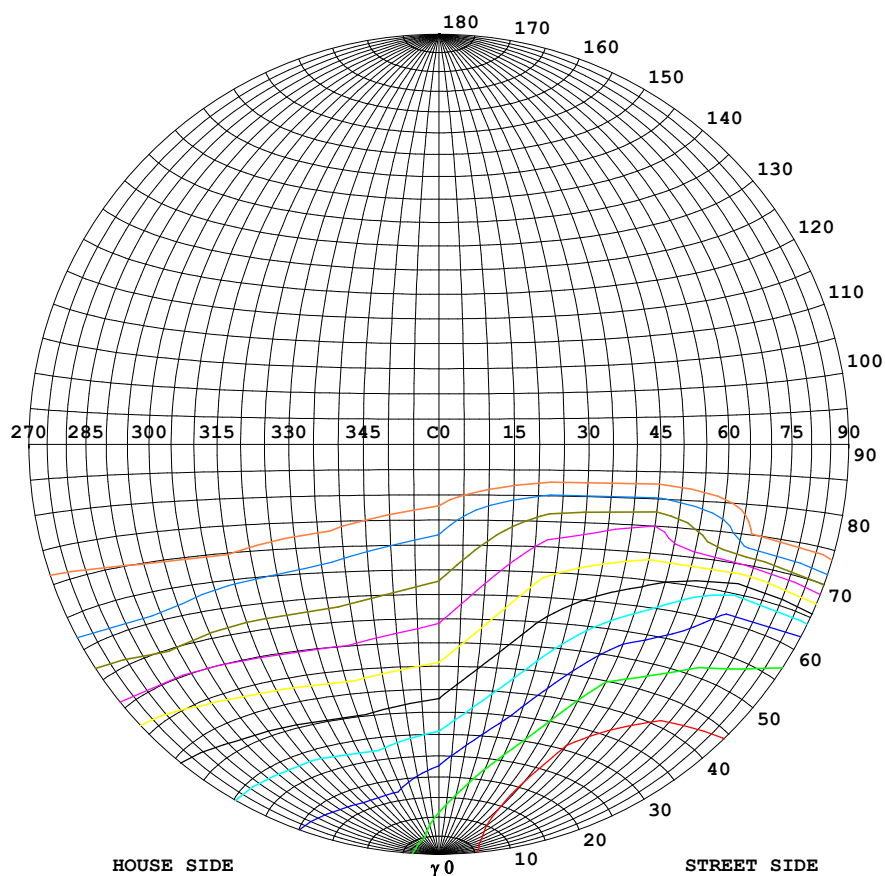
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
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:0.7480A P:89.308W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15017.2x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



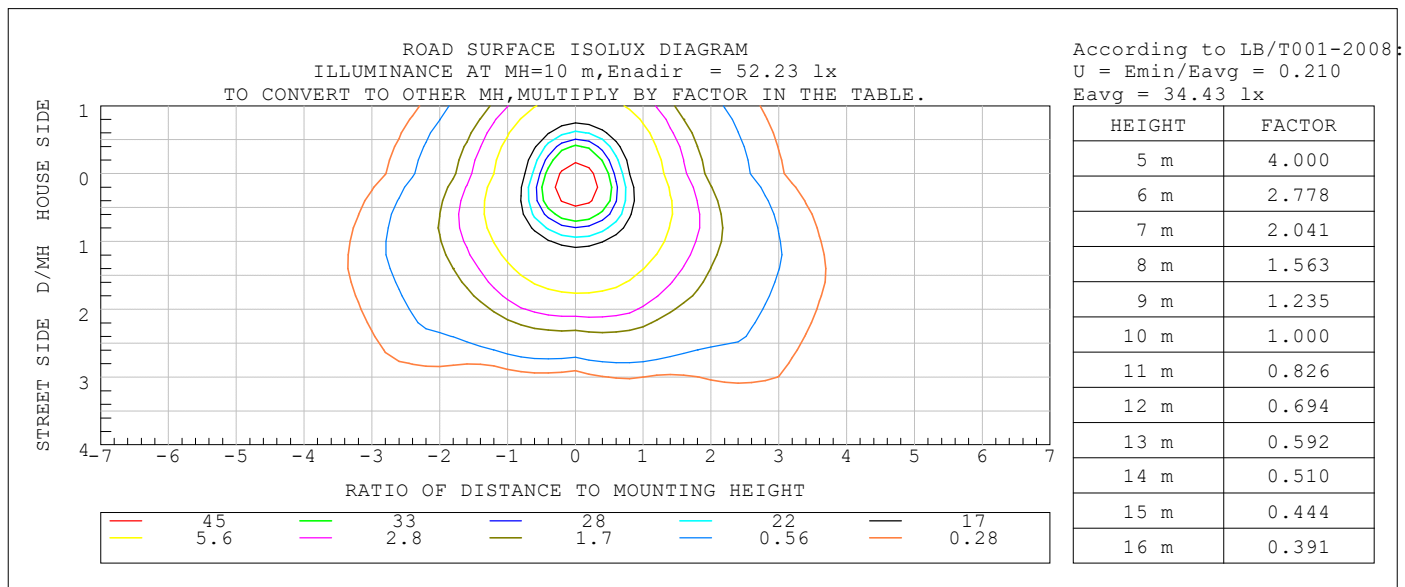
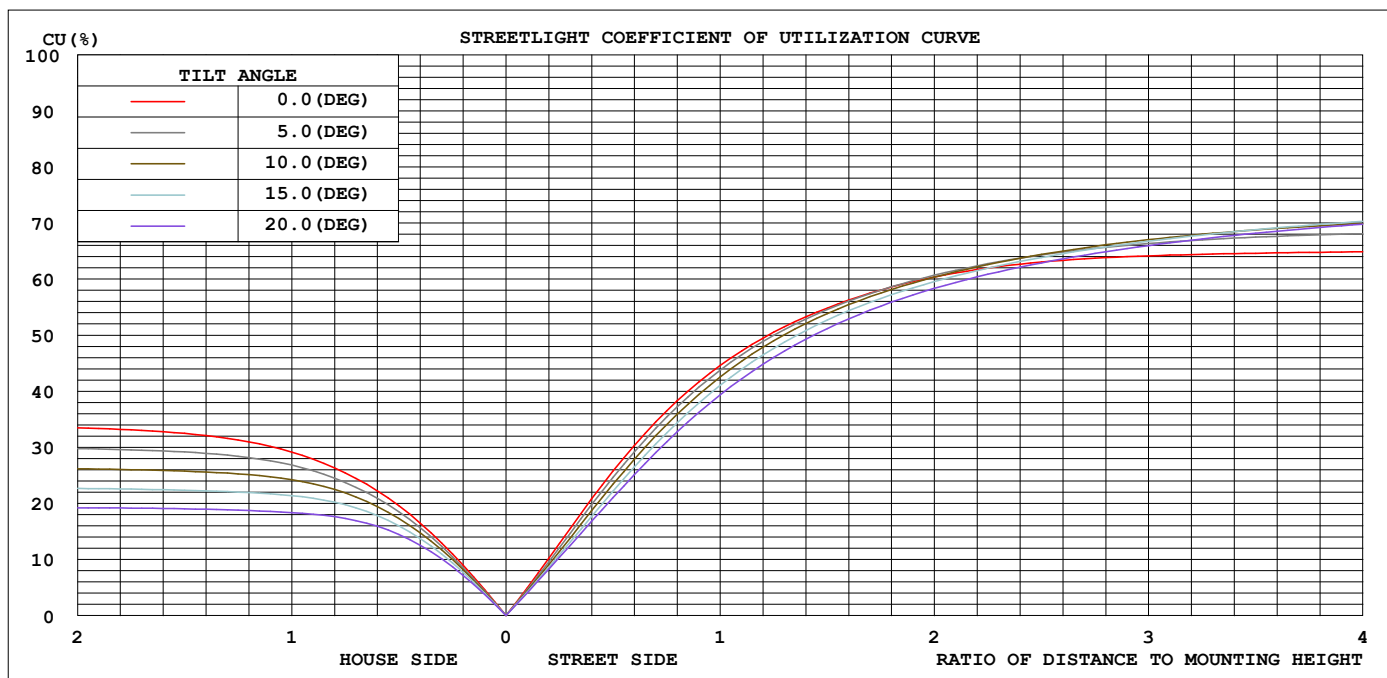
Classification:

IES:Type III - Very Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:84.86cd/klm
Max.At90:0cd/klm
Max.80-90:84.86cd/klm
NRB 5101:Semi limited[12.2%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6187
90%	5568
80%	4950
70%	4331
60%	3712
50%	3094
40%	2475
30%	1856
20%	1237
10%	619
5%	309

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:0.7480A P:89.308W PF:0.9917 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15017.2x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

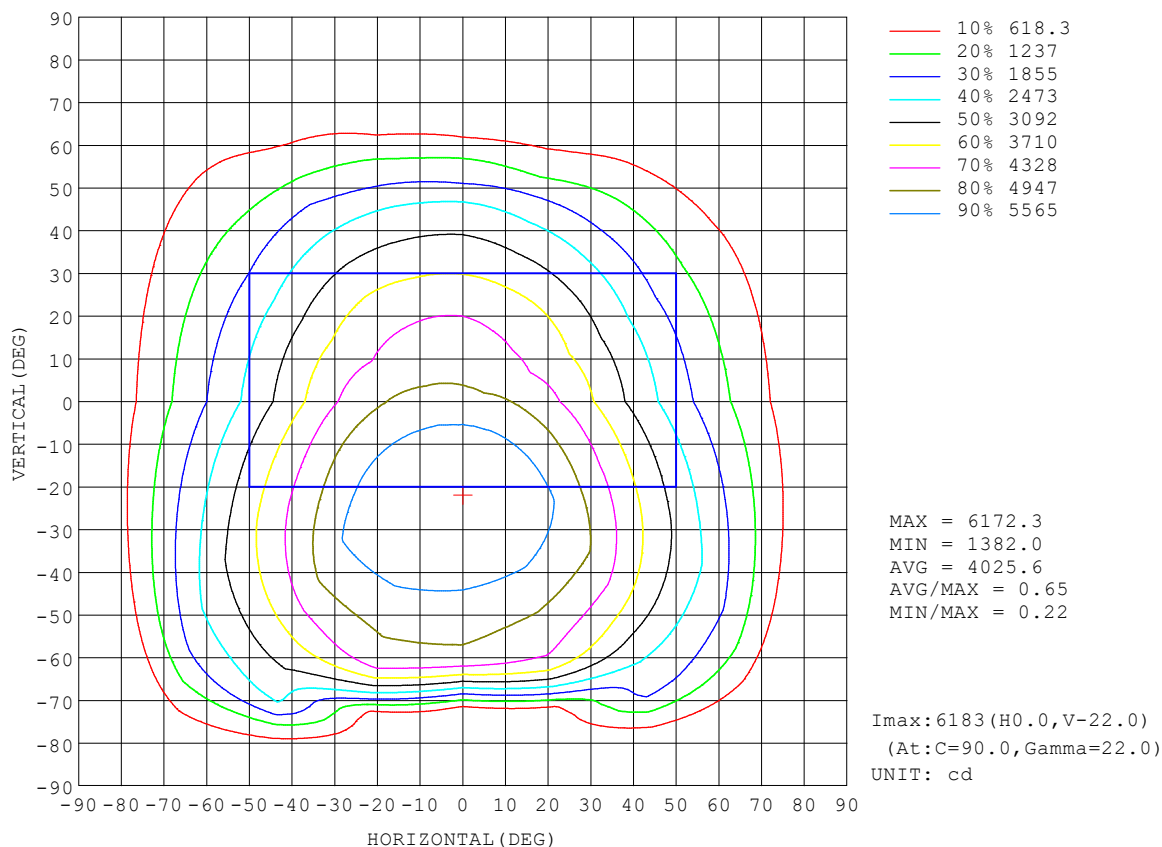
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4976	5542	5857	5672	5157	4728	4625	4626	0- 10	493.6	493.6	3.29,3.29
20	4492	5686	6176	5935	4835	4384	4328	4208	10- 20	1440	1934	12.9,12.9
30	3756	5567	6104	5918	4257	3904	3697	3566	20- 30	2224	4158	27.7,27.7
40	2923	5207	5769	5669	3445	3167	3020	2729	30- 40	2693	6851	45.6,45.6
50	2139	4533	5275	5107	2627	2352	2019	1837	40- 50	2807	9658	64.3,64.3
60	1422	3521	4711	4190	1848	1406	744.6	880.9	50- 60	2532	12190	81.2,81.2
70	743.9	2308	1198	3089	1091	474.1	331.8	301.8	60- 70	1855	14045	93.5,93.5
80	210.1	650.7	200.5	1144	399.3	190.7	135.8	135.0	70- 80	818.1	14863	99,99
90	0	0	0	0	0	0	0	0	80- 90	154.5	15017	100,100
100	0	0	0	0	0	0	0	0	90-100	0	15017	100,100
110	0	0	0	0	0	0	0	0	100-110	0	15017	100,100
120	0	0	0	0	0	0	0	0	110-120	0	15017	100,100
130	0	0	0	0	0	0	0	0	120-130	0	15017	100,100
140	0	0	0	0	0	0	0	0	130-140	0	15017	100,100
150	0	0	0	0	0	0	0	0	140-150	0	15017	100,100
160	0	0	0	0	0	0	0	0	150-160	0	15017	100,100
170	0	0	0	0	0	0	0	0	160-170	0	15017	100,100
180	0	0	0	0	0	0	0	0	170-180	0	15017	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

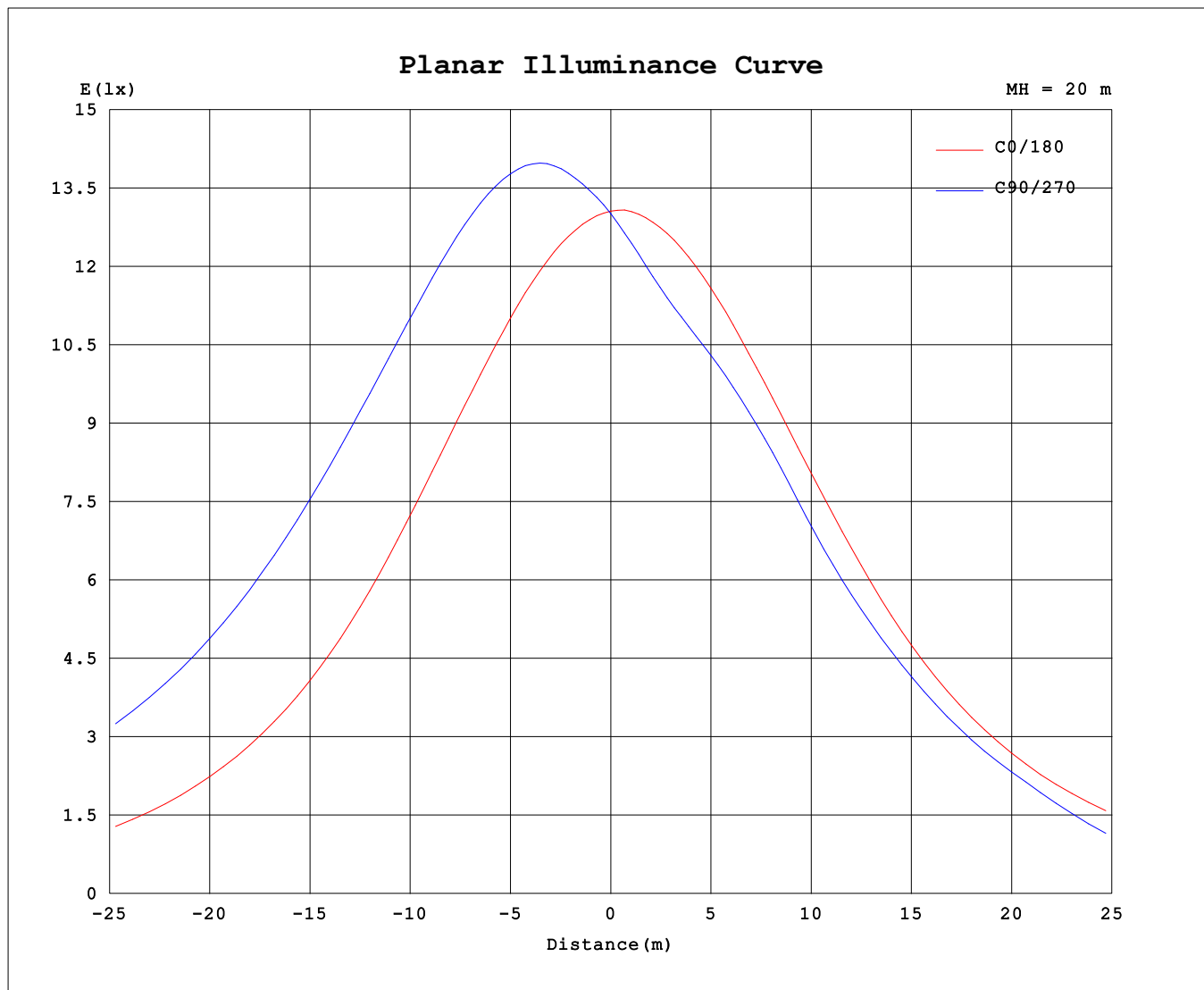
Test:U:120.39V I:0.7480A P:89.308W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15017.2x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



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

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

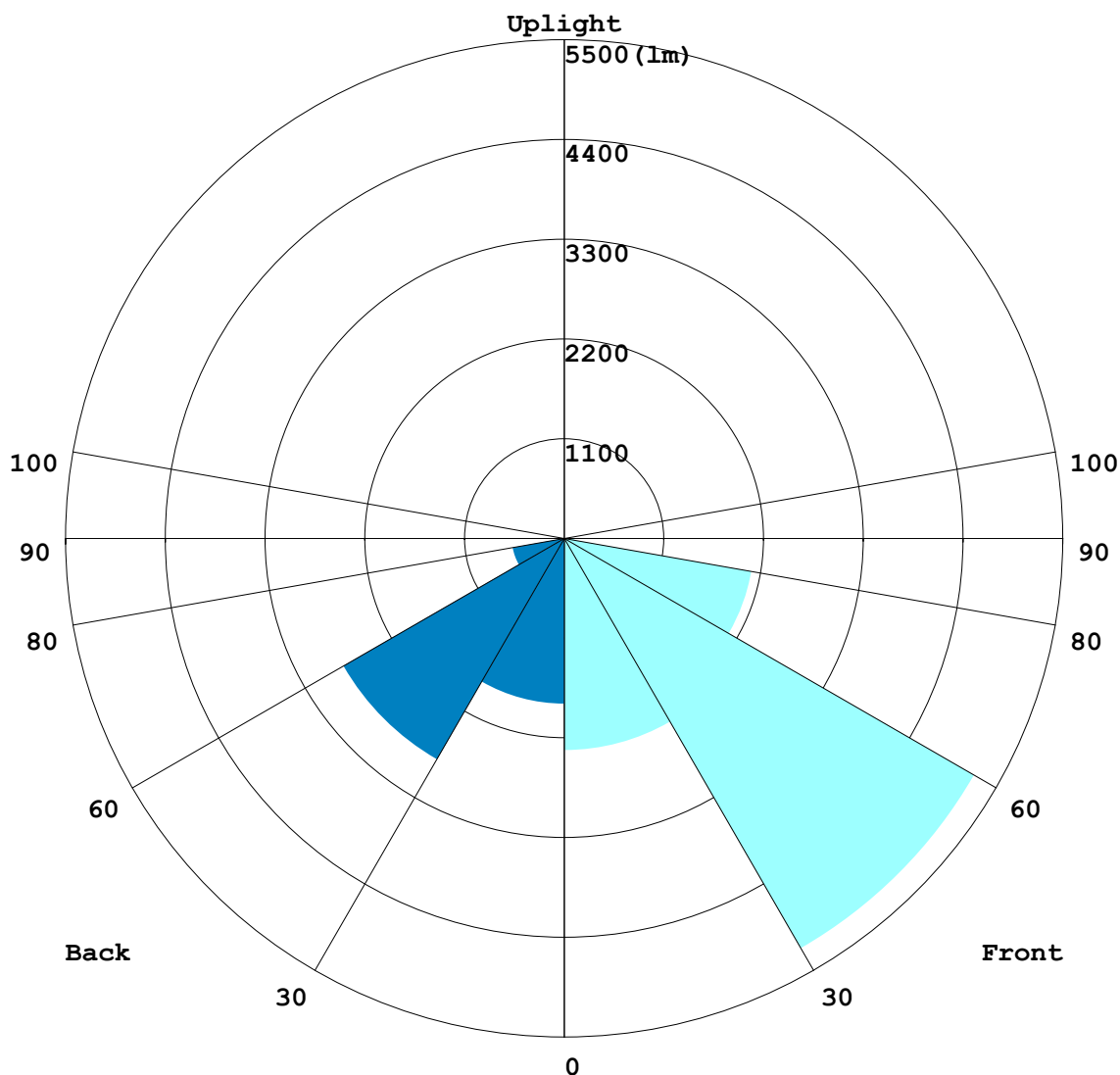


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-04-22

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:0.7480A P:89.308W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15017.2x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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:2025-04-22

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:0.7480A P:89.308W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15017.2x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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)	2333.2	15.5
FM - Front-Medium(30-60)	5221.2	34.8
FH - Front-High(60-80)	2095.9	14.0
FVH - Front-Very High(80-90)	113.05	0.8
Total Forward Light	9763.4	65.0

BL - Back-Low(0-30)	1824.6	12.2
BM - Back-Medium(30-60)	2810.9	18.7
BH - Back-High(60-80)	576.95	3.8
BVH - Back-Very High(80-90)	41.441	0.3
Total Back Light	5253.9	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	5253.9	0	5253.9
Street Side	9763.4	0	9763.4

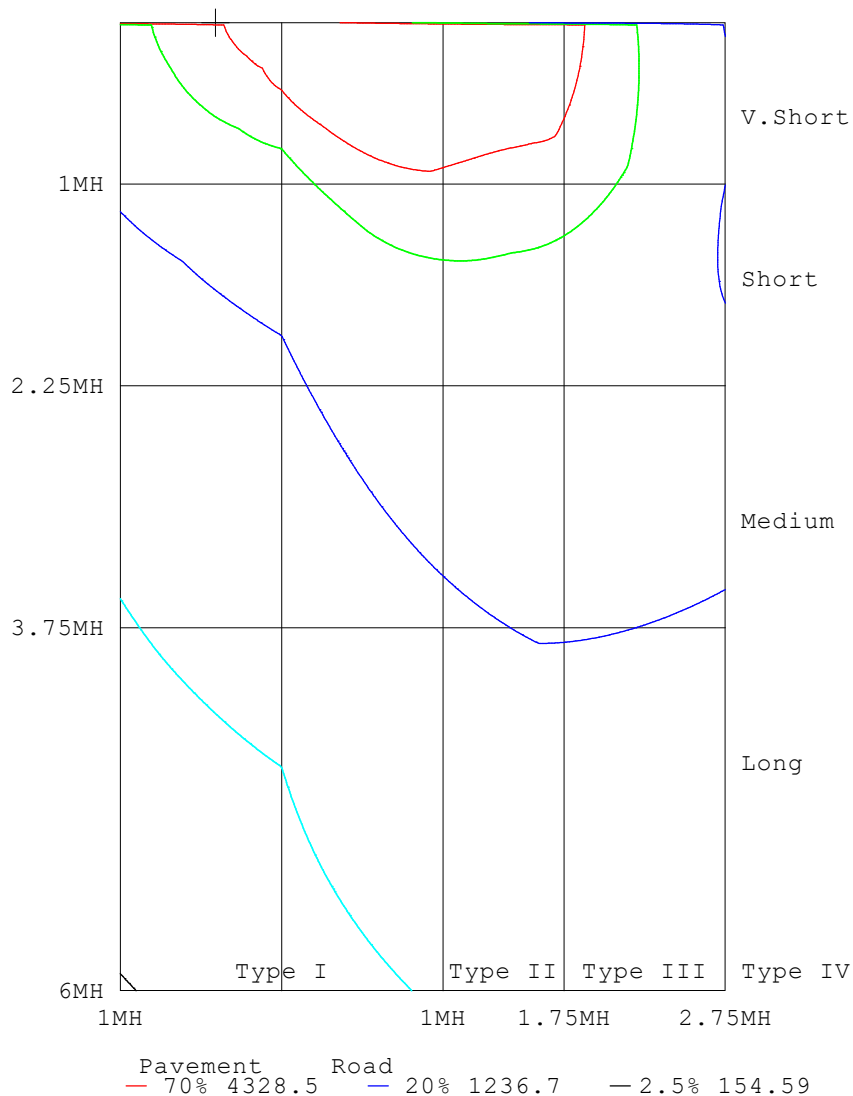
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-22

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:0.7480A P:89.308W PF:0.9917 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15017.2x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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℃
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:0.7480A P:89.308W PF:0.9917 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15017.2x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 90W	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	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208	5208			
5	5124	5261	5391	5486	5541	5526	5455	5346	5218	5079	4971	4900	4866	4864	4907	4993			
10	4976	5262	5542	5751	5857	5826	5672	5425	5157	4895	4728	4657	4625	4601	4626	4742			
15	4763	5205	5644	5942	6072	6040	5836	5449	5032	4683	4545	4511	4492	4439	4404	4476			
20	4492	5085	5686	6029	6176	6154	5935	5409	4835	4456	4384	4361	4328	4257	4208	4197			
25	4156	4890	5654	6030	6177	6181	5950	5312	4582	4219	4193	4109	4050	3970	3926	3885			
30	3756	4631	5567	5957	6104	6129	5918	5134	4257	3929	3904	3764	3697	3599	3566	3535			
35	3336	4322	5419	5817	5969	6019	5822	4877	3861	3583	3549	3423	3375	3219	3156	3139			
40	2923	4011	5207	5611	5769	5844	5669	4574	3445	3198	3167	3078	3020	2834	2729	2721			
45	2527	3690	4910	5342	5528	5608	5437	4279	3032	2798	2775	2693	2635	2420	2315	2298			
50	2139	3368	4533	5046	5275	5338	5107	3976	2627	2373	2352	2257	2019	1887	1837	1874			
55	1777	3046	4075	4734	5046	5068	4693	3658	2235	1944	1912	1560	1378	1205	1408	1483			
60	1422	2725	3521	4446	4711	4829	4190	3339	1848	1548	1406	1094	745	747	881	1084			
65	1077	2384	2916	3638	3313	4180	3636	3002	1467	1173	895	570	448	427	551	742			
70	744	1977	2308	1836	1198	2388	3089	2611	1091	835	474	370	332	309	302	451			
75	448	1437	1847	313	251	440	2603	2100	719	493	291	252	264	239	211	244			
80	210	641	651	189	200	227	1144	1274	399	219	191	161	136	131	135	115			
85	52.3	132	159	112	106	153	283	369	152	85.7	90.7	49.5	40.4	32.4	35.7	39.9			
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:2025-04-22

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: