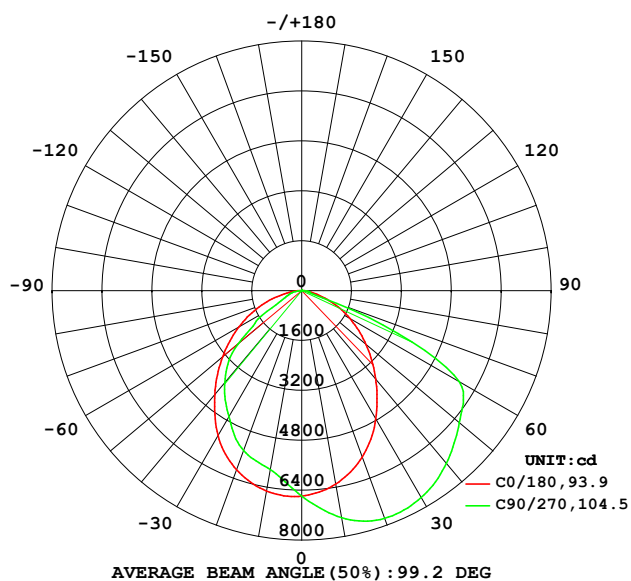
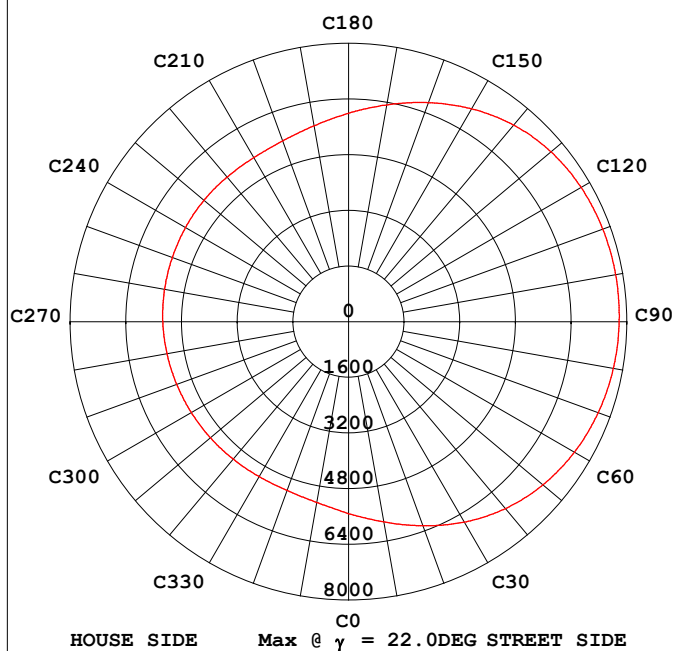


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.35V I:0.9558A P:114.50W PF:0.9954 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:19130.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 165.45 lm/W			
MODEL	WP28-14-120L-S2D4C3	I _{max} (cd)	7778	η street_up (%)	0.0
NOMINAL POWER (W)	120	LOR (%)	99.0	η street_down (%)	63.6
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	18943	η house_up (%)	0.0
NOMINAL FLUX (lm)	19130.5	MAXIMUM @ (C, γ)	90,22.0	η house_down (%)	35.4
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.0	SLI	21.600

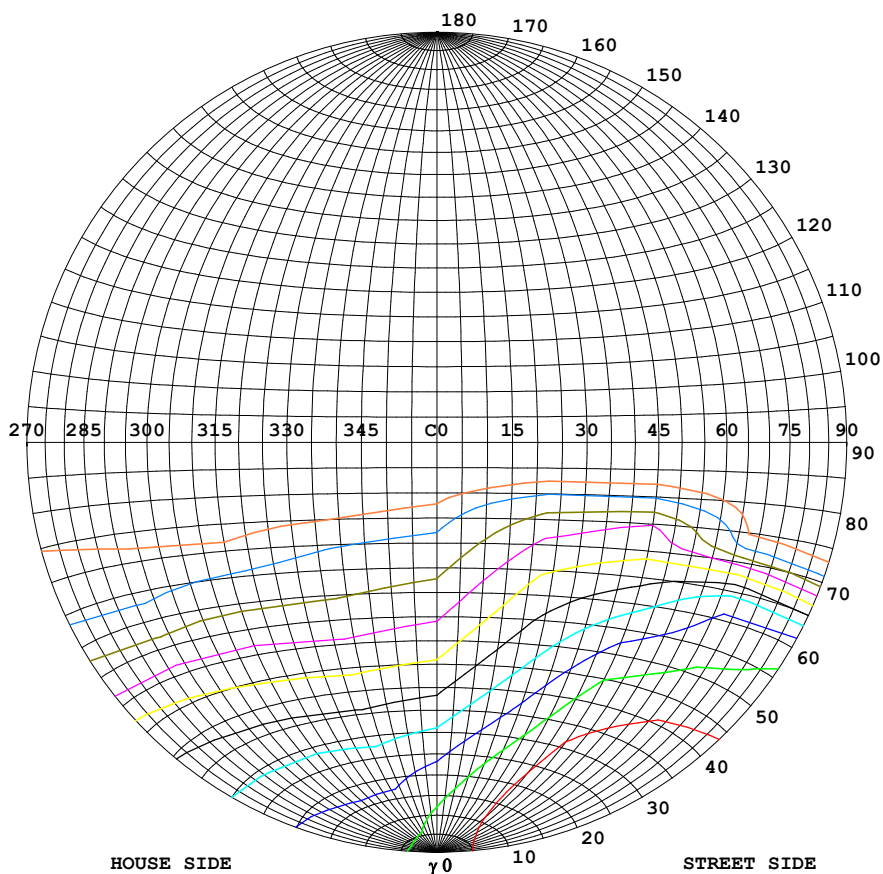
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:120.35V I:0.9558A P:114.50W PF:0.9954 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:19130.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



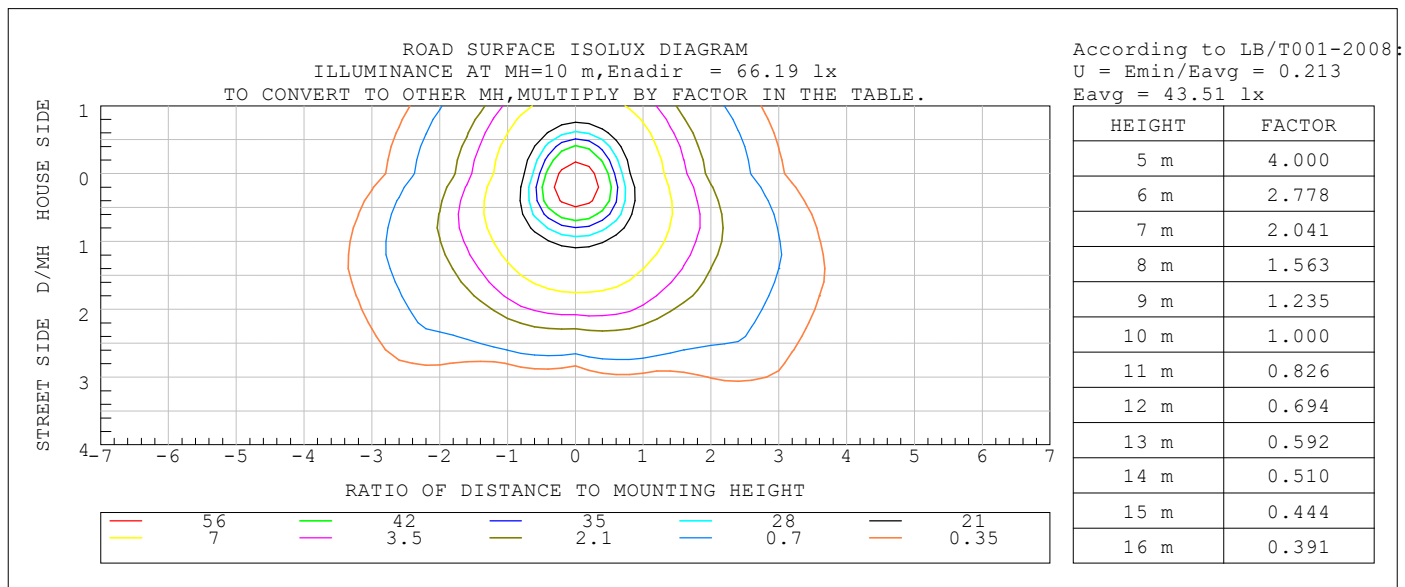
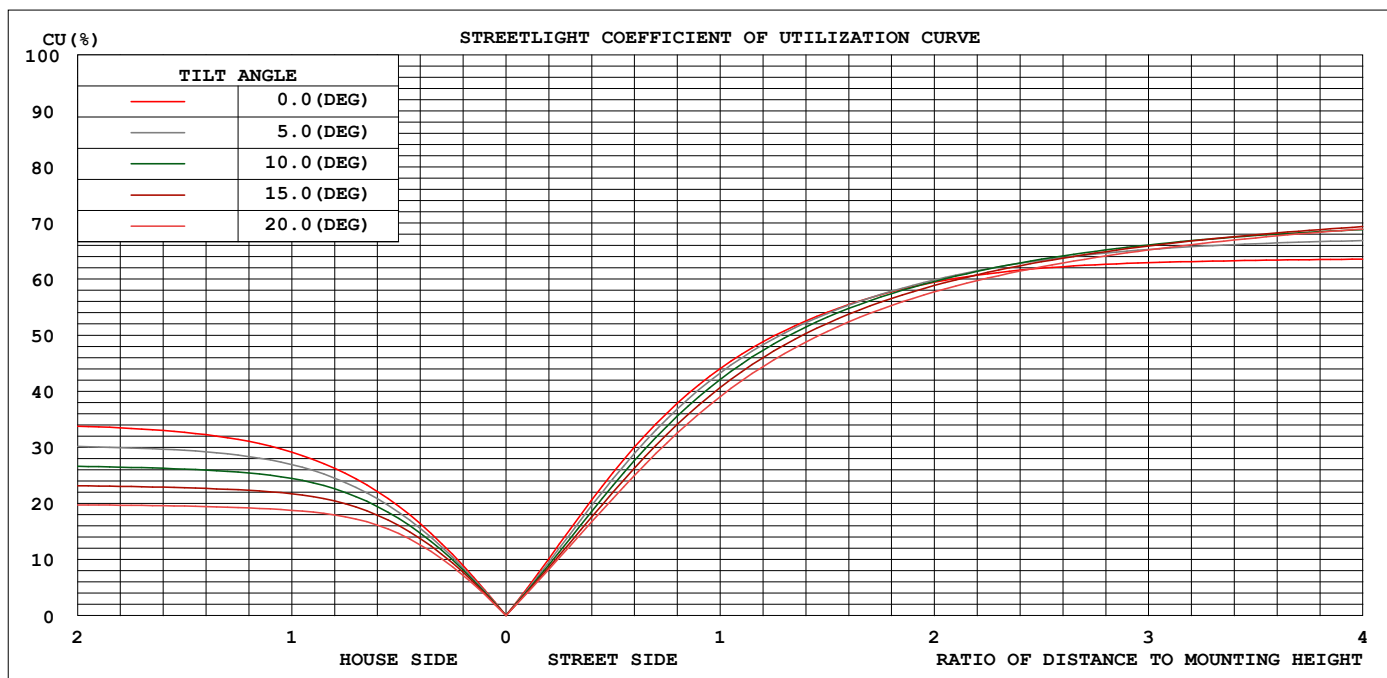
Classification:

IES:Type III - Very Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:78.50cd/klm
Max.At90:0cd/klm
Max.80-90:78.50cd/klm
NRB 5101:Semi limited[11.7%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	7778
90%	7000
80%	6222
70%	5444
60%	4667
50%	3889
40%	3111
30%	2333
20%	1556
10%	778
5%	389

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:120.35V I:0.9558A P:114.50W PF:0.9954 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:19130.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:

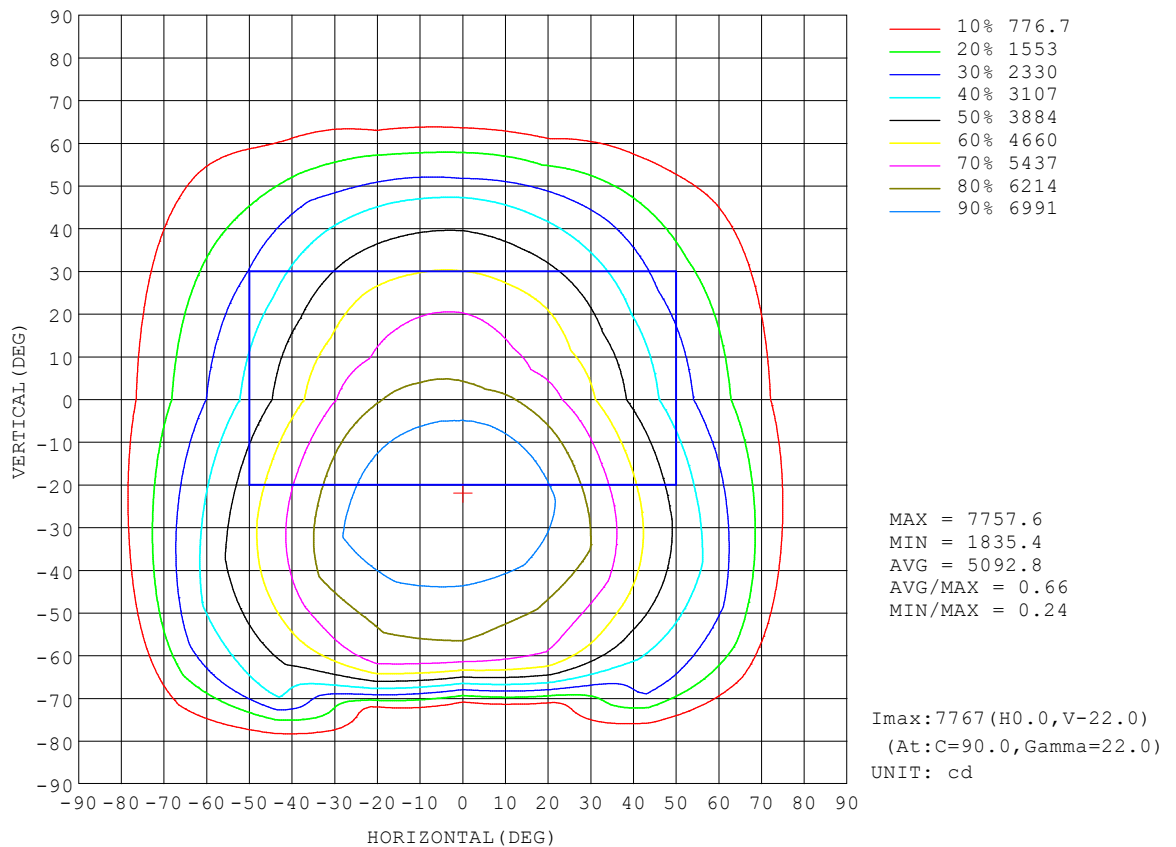
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	6294	7005	7393	7169	6522	5969	5828	5843	0- 10	624.0	624.0	3.29,3.26
20	5680	7174	7768	7483	6114	5520	5457	5290	10- 20	1817	2441	12.9,12.8
30	4752	7010	7660	7442	5370	4920	4672	4558	20- 30	2806	5247	27.7,27.4
40	3692	6541	7223	7117	4338	4015	3841	3566	30- 40	3401	8648	45.7,45.2
50	2701	5674	6599	6388	3311	2991	2662	2533	40- 50	3553	12201	64.4,63.8
60	1792	4390	5830	5214	2325	1824	1093	1346	50- 60	3222	15423	81.4,80.6
70	938.3	2871	1205	3814	1370	616.1	501.1	457.3	60- 70	2329	17752	93.7,92.8
80	265.5	728.0	247.6	1241	497.8	249.2	200.6	184.6	70- 80	1008	18761	99.98.1
90	0	0	0	0	0	0	0	0	80- 90	182.8	18943	100,99
100	0	0	0	0	0	0	0	0	90-100	0	18943	100,99
110	0	0	0	0	0	0	0	0	100-110	0	18943	100,99
120	0	0	0	0	0	0	0	0	110-120	0	18943	100,99
130	0	0	0	0	0	0	0	0	120-130	0	18943	100,99
140	0	0	0	0	0	0	0	0	130-140	0	18943	100,99
150	0	0	0	0	0	0	0	0	140-150	0	18943	100,99
160	0	0	0	0	0	0	0	0	150-160	0	18943	100,99
170	0	0	0	0	0	0	0	0	160-170	0	18943	100,99
180	0	0	0	0	0	0	0	0	170-180	0	18943	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

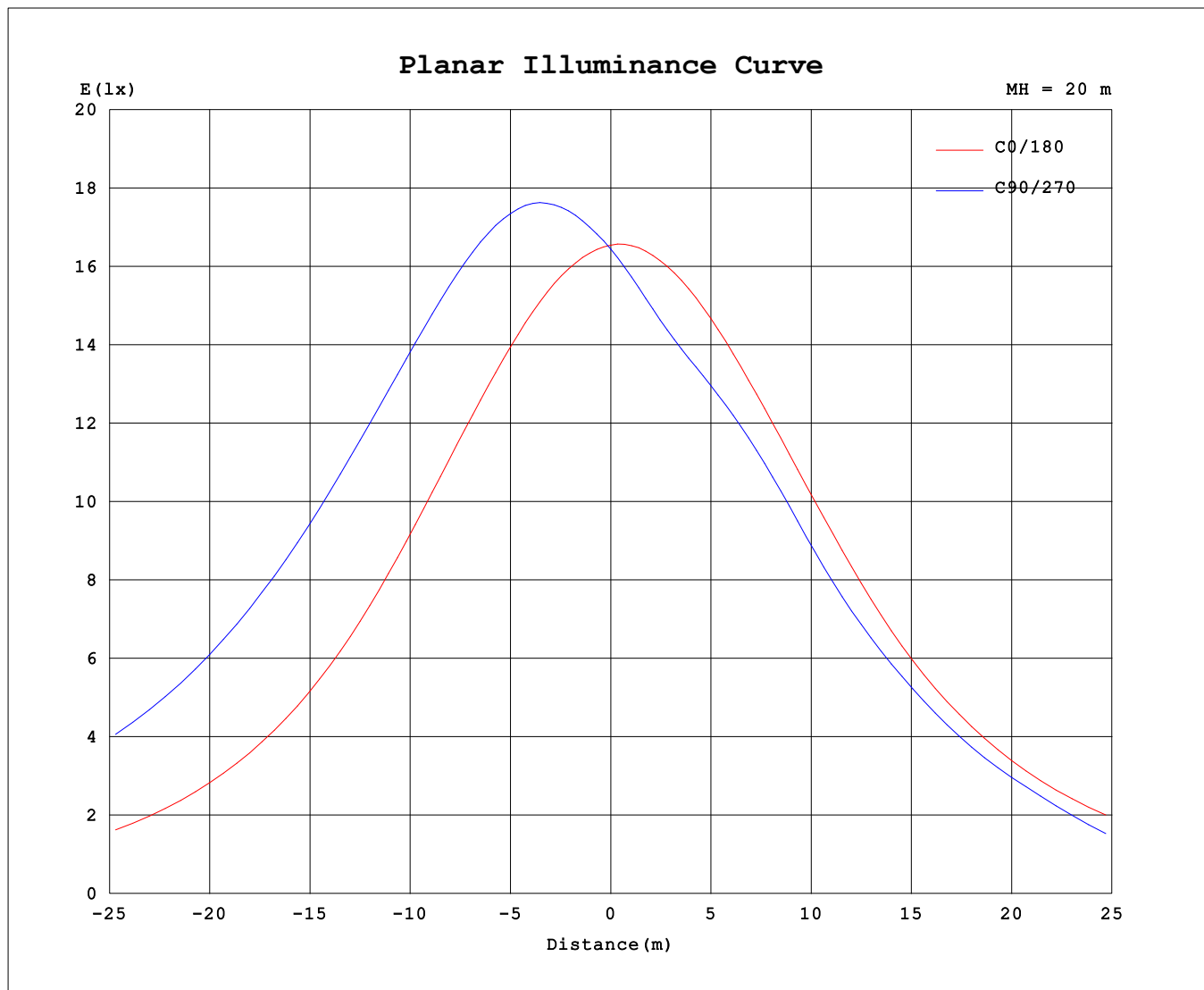
Test:U:120.35V I:0.9558A P:114.50W PF:0.9954 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:19130.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 0.30*0.1	Shielding Angle:



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



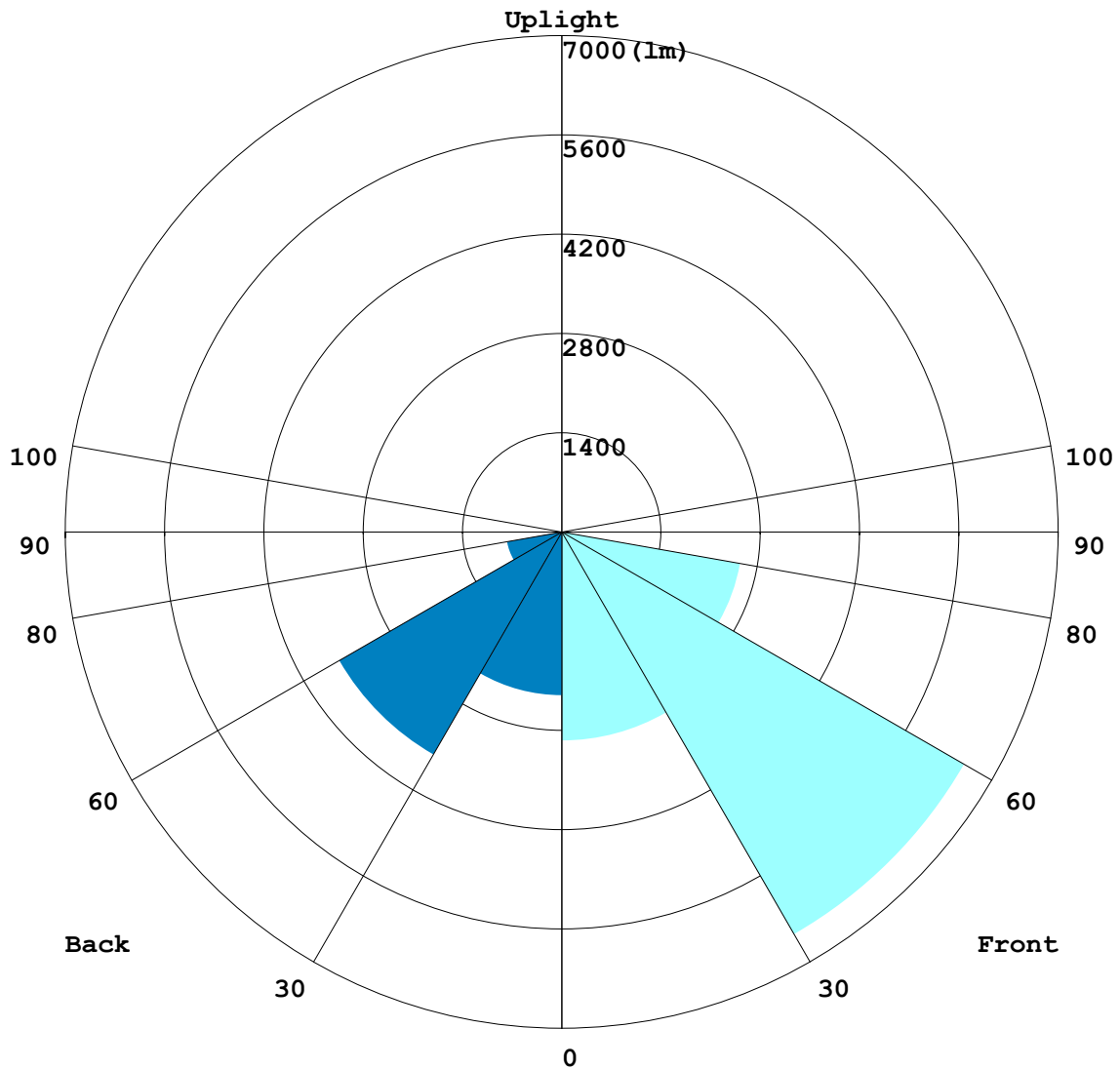
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2025-04-22

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:120.35V I:0.9558A P:114.50W PF:0.9954 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:19130.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 120W	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℃
 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:120.35V I:0.9558A P:114.50W PF:0.9954 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:19130.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 120W	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)	2942.8	15.5
FM - Front-Medium(30-60)	6551	34.6
FH - Front-High(60-80)	2554.6	13.5
FVH - Front-Very High(80-90)	127.6	0.7
Total Forward Light	12176	64.3

BL - Back-Low(0-30)	2304.3	12.2
BM - Back-Medium(30-60)	3624.7	19.1
BH - Back-High(60-80)	783.16	4.1
BVH - Back-Very High(80-90)	55.183	0.3
Total Back Light	6767.4	35.7

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	6767.4	0	6767.4
Street Side	12176	0	12176

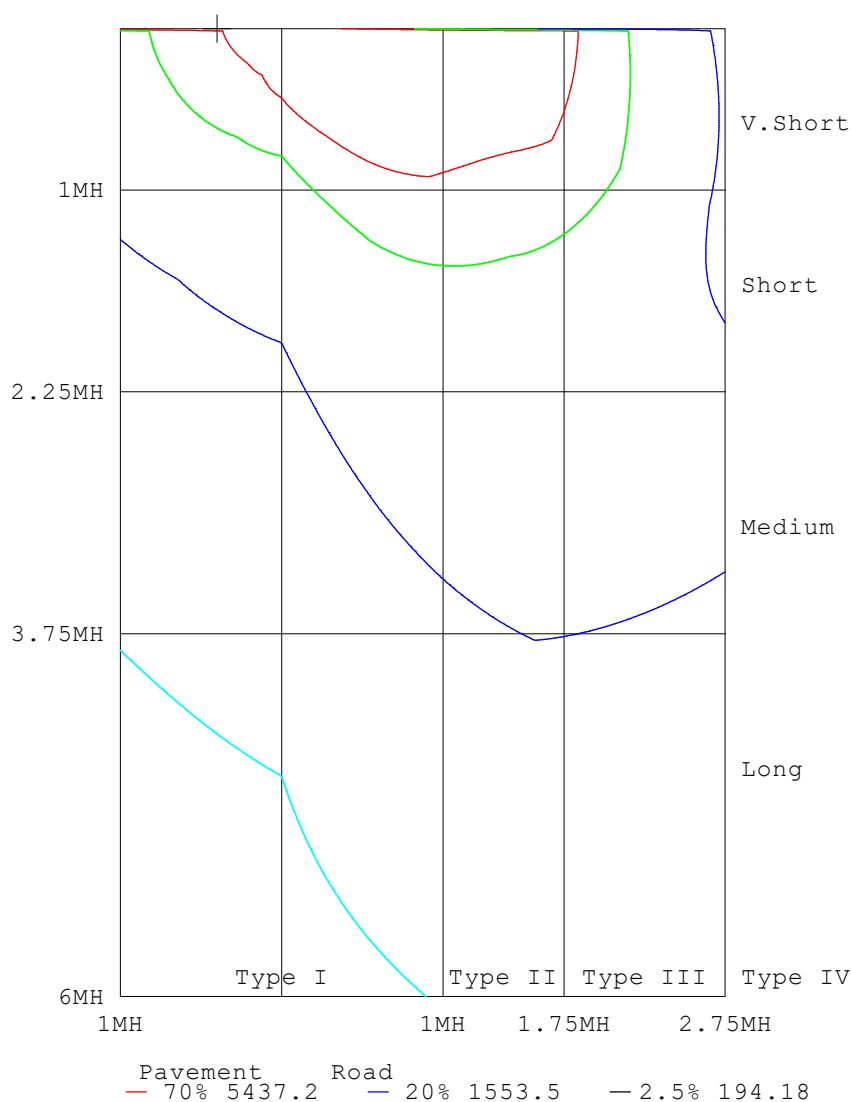
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2025-04-22

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:120.35V I:0.9558A P:114.50W PF:0.9954 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:19130.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 120W	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:2025-04-22

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:120.35V I:0.9558A P:114.50W PF:0.9954 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:19130.5x1 lm		
NAME: WP28-14-120L-S2D4C3	TYPE: 120W	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	6587	6587	6587	6587	6587	6587	6587	6587	6587	6587	6587	6587	6587	6587	6587	6587			
5	6480	6653	6814	6943	7011	6986	6902	6757	6602	6427	6288	6195	6154	6150	6207	6323			
10	6294	6656	7005	7268	7393	7358	7169	6862	6522	6194	5969	5870	5828	5797	5843	6004			
15	6025	6577	7136	7496	7651	7619	7367	6890	6359	5920	5728	5683	5654	5588	5550	5658			
20	5680	6425	7174	7595	7768	7747	7483	6838	6114	5625	5520	5499	5457	5370	5290	5301			
25	5257	6186	7127	7583	7760	7768	7498	6706	5788	5315	5276	5198	5116	5024	4973	4920			
30	4752	5855	7010	7487	7660	7697	7442	6476	5370	4955	4920	4769	4672	4568	4558	4489			
35	4220	5461	6817	7299	7482	7549	7318	6149	4860	4520	4479	4340	4274	4123	4076	4015			
40	3692	5056	6541	7033	7223	7320	7117	5770	4338	4037	4015	3913	3841	3677	3566	3504			
45	3189	4650	6168	6695	6918	7018	6818	5389	3825	3534	3519	3429	3361	3189	3059	2982			
50	2701	4249	5674	6312	6599	6683	6388	4997	3311	3001	2991	2900	2662	2622	2533	2453			
55	2231	3847	5090	5927	6323	6338	5855	4594	2815	2463	2438	2031	1832	1762	2012	1957			
60	1792	3444	4390	5554	5830	6049	5214	4201	2325	1952	1824	1454	1093	1185	1346	1504			
65	1357	3002	3628	4361	3900	5058	4522	3767	1845	1488	1148	760	680	646	859	1090			
70	938	2478	2871	2034	1205	2723	3814	3259	1370	1062	616	497	501	446	457	728			
75	566	1777	2276	379	292	443	3207	2594	903	640	377	370	379	328	295	385			
80	266	759	728	230	248	270	1241	1502	498	283	249	245	201	188	185	165			
85	66.5	152	174	129	115	176	306	413	190	112	124	64.1	57.3	44.8	49.3	54.0			
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: