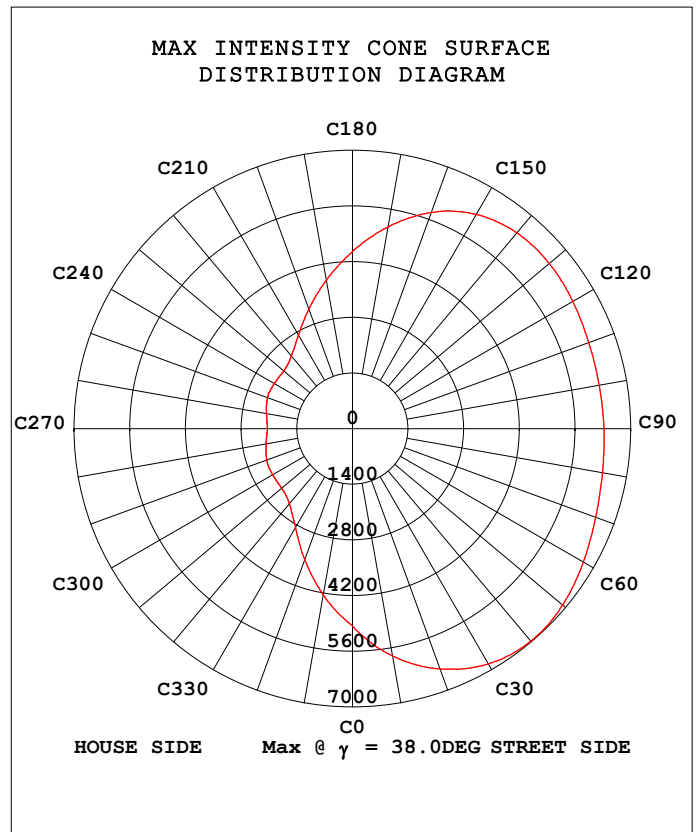
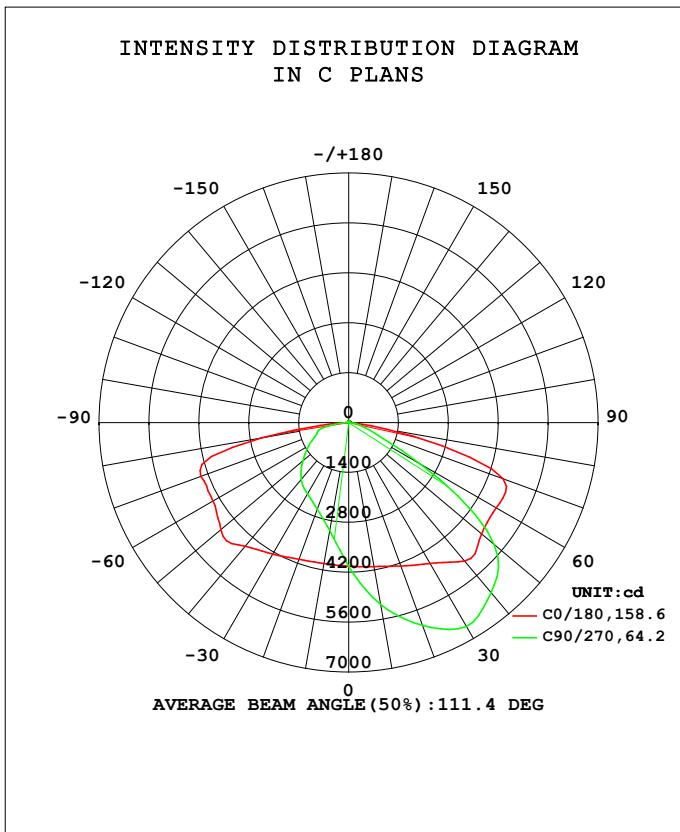


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.93V I:1.0681A P:127.83W PF:0.9979 Freq:60.00Hz		
UTHDi:1.30% ITHDi:3.87% KDisp:0.9998 Lamp Flux:18775.4x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.87 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-150W-BR-PS-XX	Imax (cd)	6965	η street_up (%)	0.3
NOMINAL POWER (W)	150	LOR (%)	100.0	η street_down (%)	66.3
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	18775	η house_up (%)	0.5
NOMINAL FLUX (lm)	18775.4	MAXIMUM @ (C, γ)	45,38.0	η house_down (%)	32.9
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.2	SLI	23.746



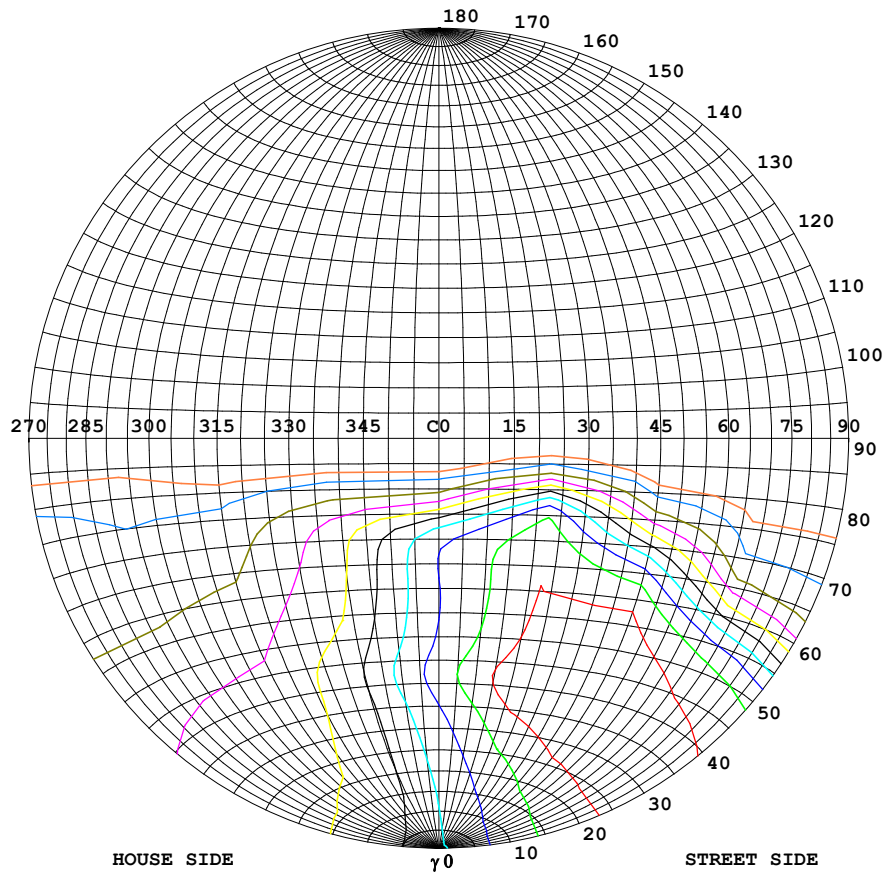
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 6.895m [K=0.9717]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.93V I:1.0681A P:127.83W PF:0.9979 Freq:60.00Hz		
UTHDi:1.30% ITHDi:3.87% KDisp:0.9998 Lamp Flux:18775.4x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type III - Very Short
 CIE:Average - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:229.5cd/klm
 Max.At90:1.606cd/klm
 Max.80-90:229.5cd/klm

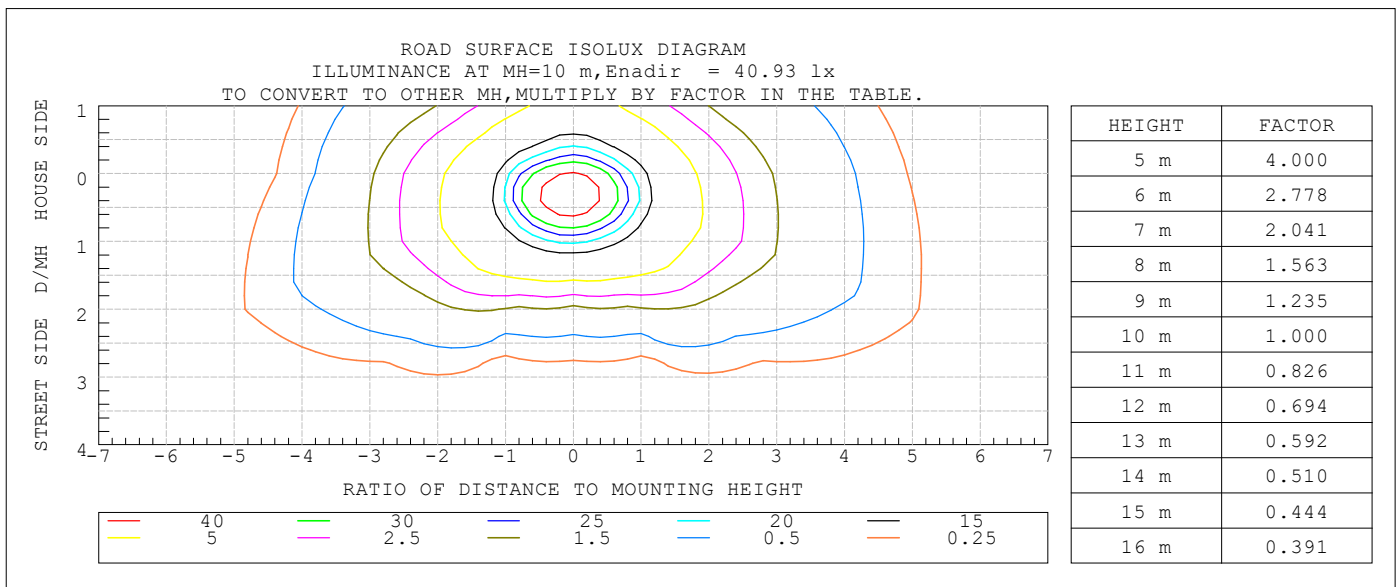
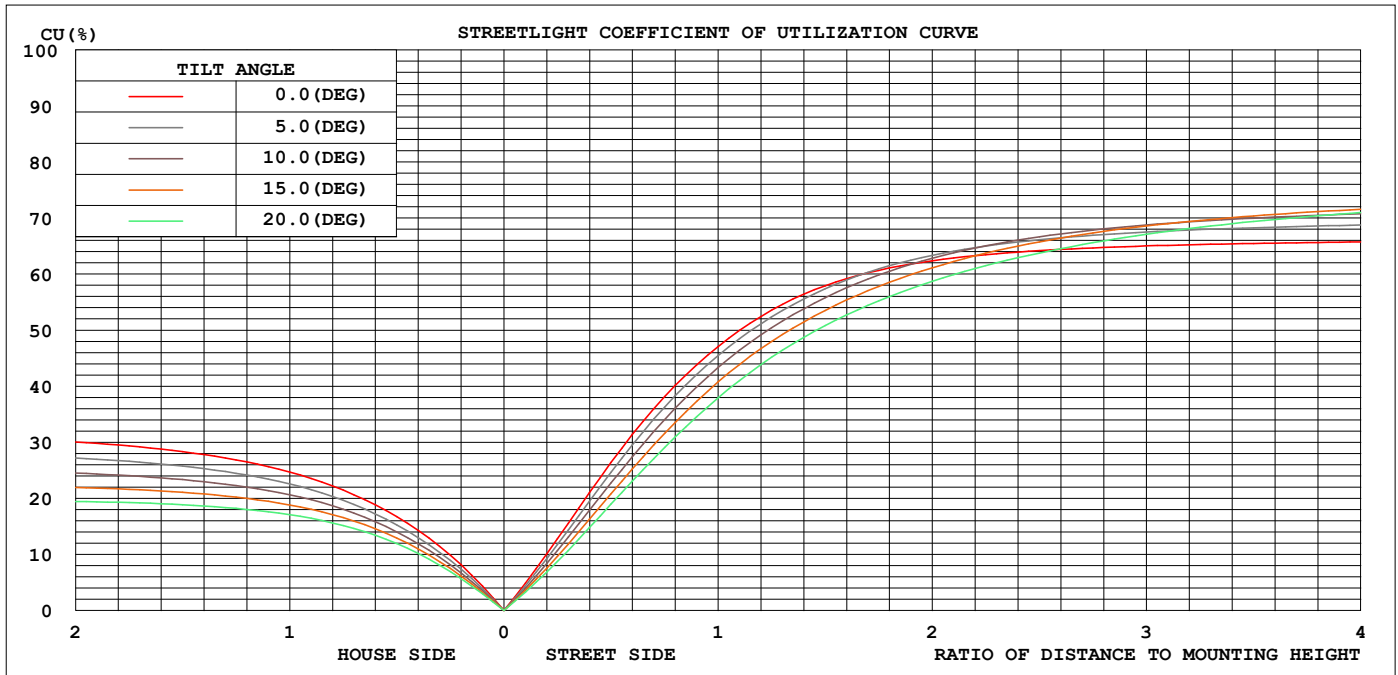
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6965
90%	6268
80%	5572
70%	4875
60%	4179
50%	3482
40%	2786
30%	2089
20%	1393
10%	696
5%	348

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

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
 Humidity:65.0%
 Test Distance:6.895m [K=0.9717]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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: 23 June 2025

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity: 65.0%
Test Distance: 6.895m [K=0.9717]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:119.93V I:1.0681A P:127.83W PF:0.9979 Freq:60.00Hz		
UTHDi:1.30% ITHDi:3.87% KDisp:0.9998 Lamp Flux:18775.4x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4103	4874	5178	4858	4018	3291	3078	3339	0- 10	387.8	387.8	2.07,2.07
20	4279	5653	6053	5561	4083	2811	2595	2891	10- 20	1183	1570	8.36,8.36
30	4569	6478	6605	6117	4264	2507	2315	2591	20- 30	2013	3583	19.1,19.1
40	5071	6926	6224	6478	4525	2245	2075	2320	30- 40	2828	6411	34.1,34.1
50	4865	6528	5336	6251	4680	1970	1686	2030	40- 50	3404	9815	52.3,52.3
60	4780	5958	2303	5813	4399	1568	1294	1573	50- 60	3437	13253	70.6,70.6
70	4608	3557	622.1	3410	4417	1122	964.5	1110	60- 70	2910	16163	86.1,86.1
80	1100	523.7	204.2	731.7	2462	600.2	624.2	483.8	70- 80	2012	18175	96.8,96.8
90	14.87	7.597	4.657	18.20	17.62	3.312	1.923	9.391	80- 90	451.7	18627	99.2,99.2
100	24.88	10.21	5.654	5.615	19.20	7.349	4.381	19.12	90-100	10.07	18637	99.3,99.3
110	33.79	15.32	8.667	8.480	28.69	15.04	11.86	27.52	100-110	15.23	18652	99.3,99.3
120	43.01	20.67	12.34	11.72	39.10	23.53	21.62	35.60	110-120	20.98	18673	99.5,99.5
130	46.64	24.73	15.20	14.47	46.45	32.63	30.95	40.91	120-130	24.63	18697	99.6,99.6
140	46.85	28.44	17.85	16.99	49.17	40.61	39.83	41.37	130-140	24.70	18722	99.7,99.7
150	47.06	32.33	21.45	19.27	49.40	45.78	44.72	38.51	140-150	21.85	18744	99.8,99.8
160	47.21	36.73	25.96	21.84	49.60	48.44	45.22	35.60	150-160	16.92	18761	99.9,99.9
170	48.37	41.82	31.76	25.28	50.04	48.82	43.27	33.21	160-170	10.79	18772	100,100
180	49.76	46.32	38.20	29.65	49.77	46.35	38.28	29.69	170-180	3.750	18775	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:23 June 2025

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471

Humidity:65.0%

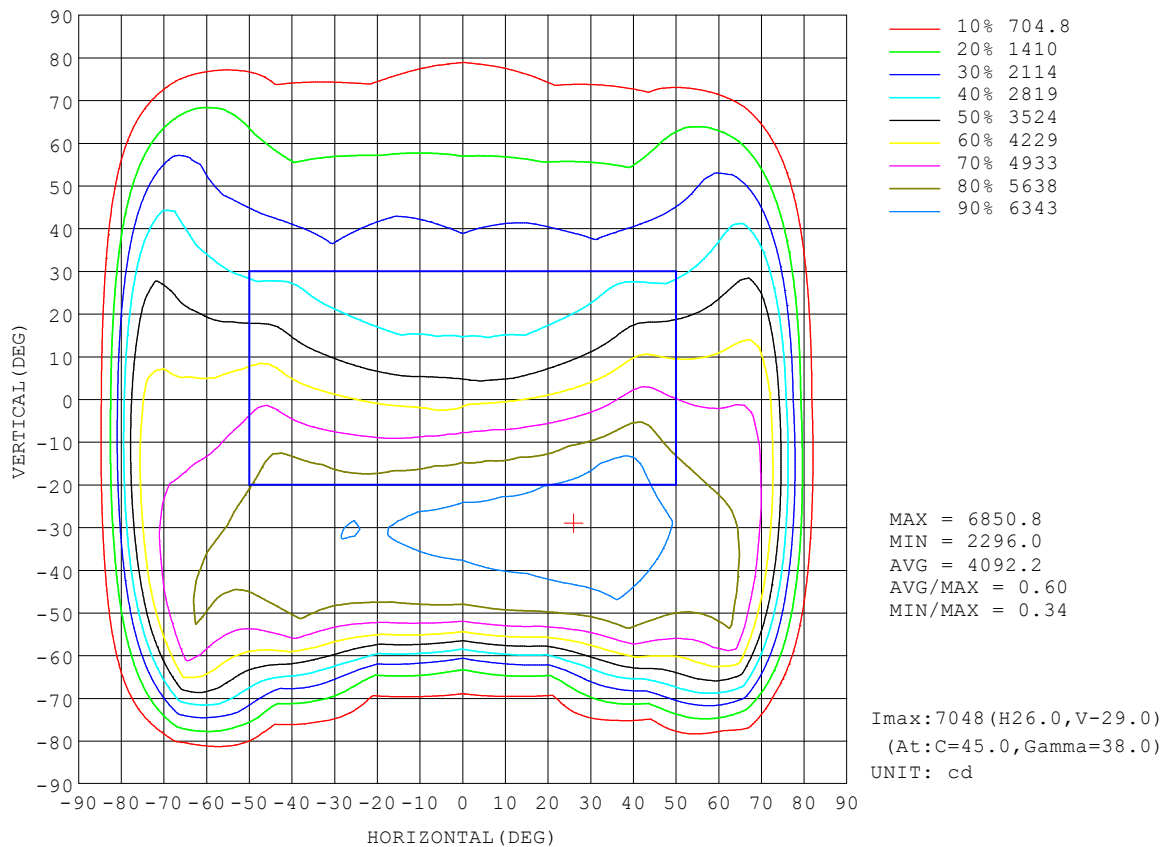
Test Distance:6.895m [K=0.9717]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

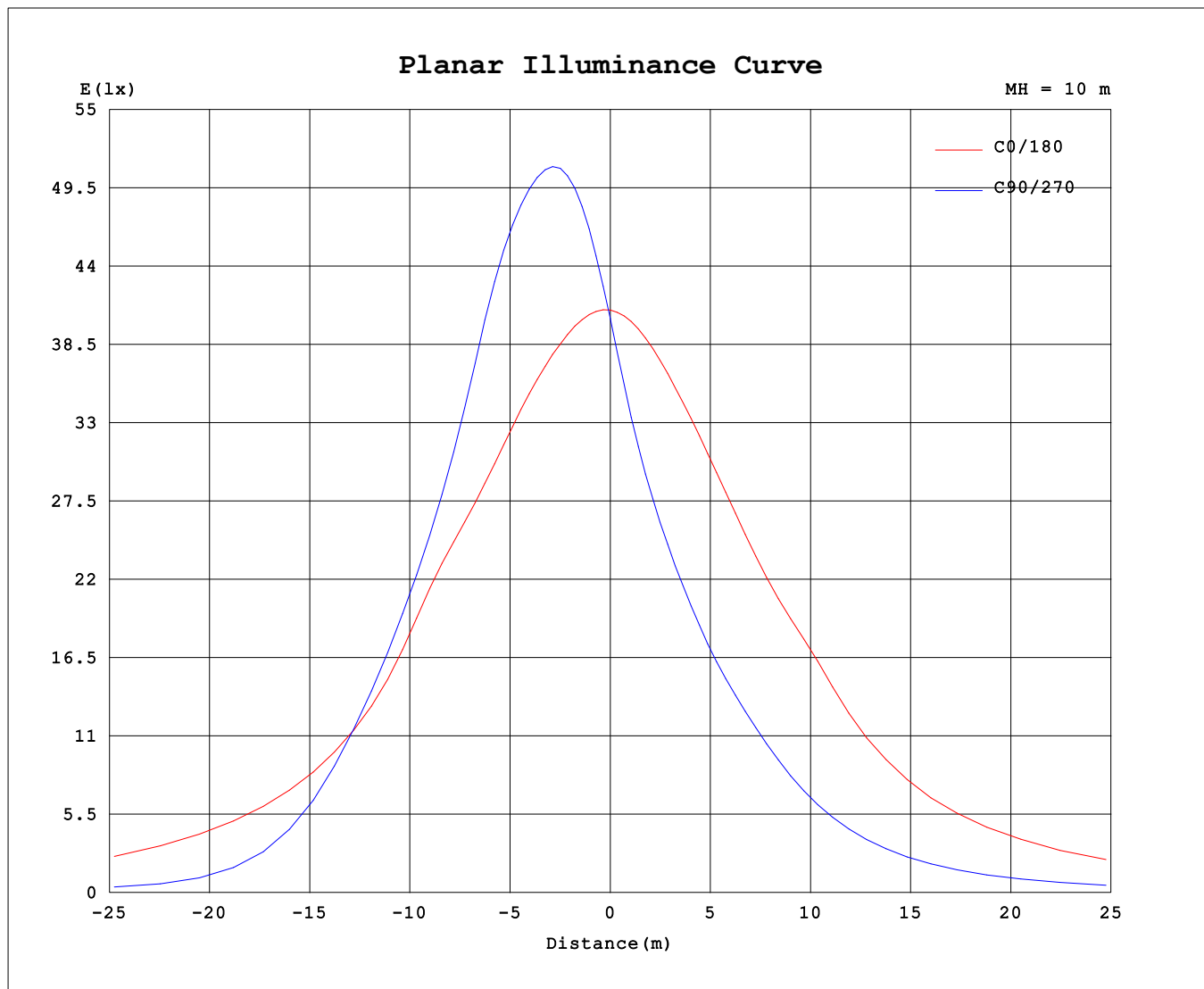
ISOCANDELA DIAGRAM

Test:U:119.93V I:1.0681A P:127.83W PF:0.9979 Freq:60.00Hz UTHDi:1.30% ITHDi:3.87% KDisp:0.9998 Lamp Flux:18775.4x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 22.5DEG	γ Interval: 2.0DEG
Test Speed: HIGH	Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Temperature: 25.3 °C	Humidity: 65.0%
Operators: DAMIN	Test Distance: 6.895m [K=0.9717]
Test Date: 23 June 2025	Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature: 25.3 °C

Operators: DAMIN

Test Date: 23 June 2025

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.471

Humidity: 65.0%

Test Distance: 6.895m [K=0.9717]

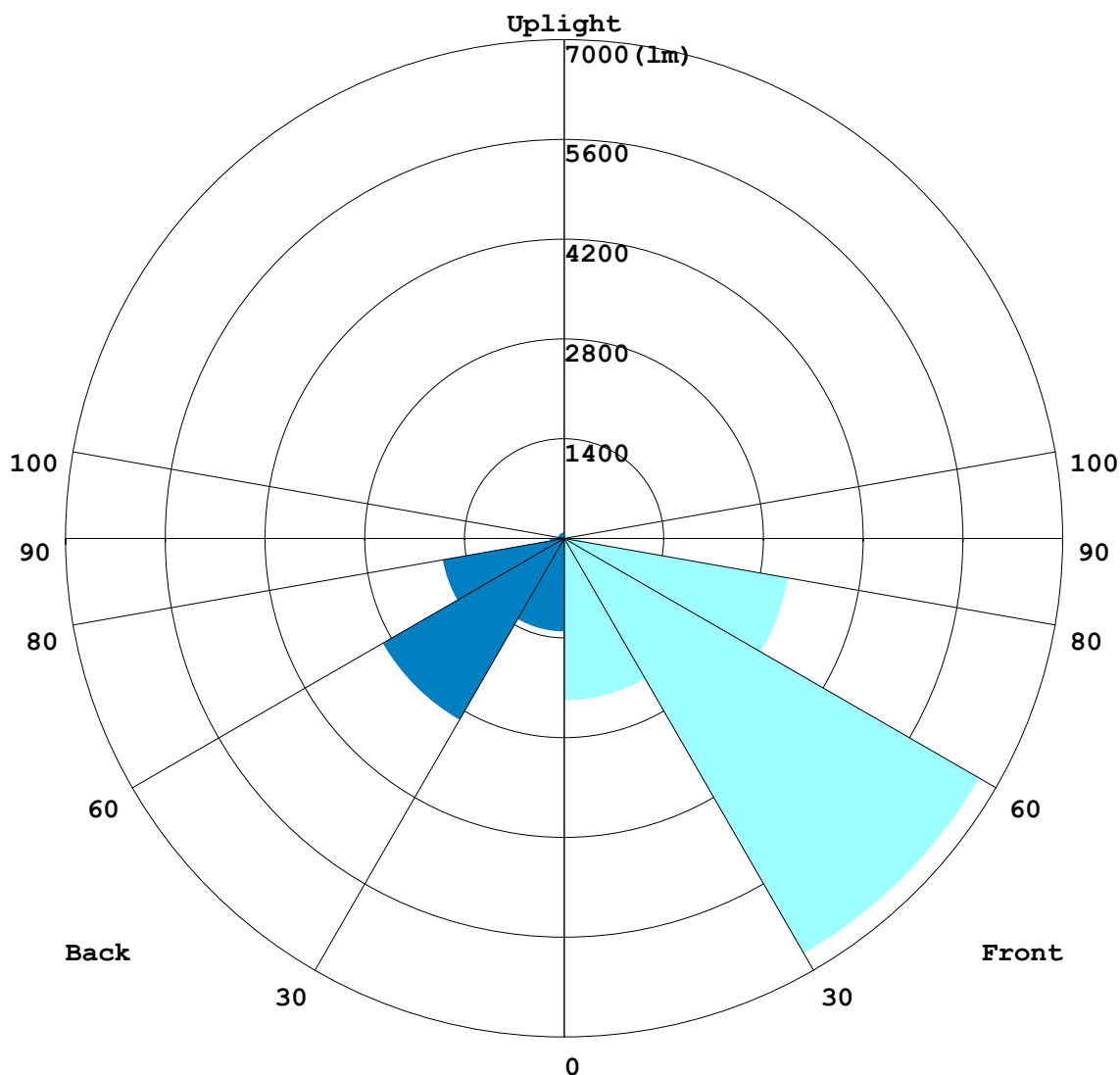
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:119.93V I:1.0681A P:127.83W PF:0.9979 Freq:60.00Hz		
UTHDi:1.30% ITHDi:3.87% KDisp:0.9998 Lamp Flux:18775.4x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	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:23 June 2025

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=0.9717]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:119.93V I:1.0681A P:127.83W PF:0.9979 Freq:60.00Hz UTHDi:1.30% ITHDi:3.87% KDisp:0.9998 Lamp Flux:18775.4x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	2275.7	12.1
FM - Front-Medium(30-60)	6726.8	35.8
FH - Front-High(60-80)	3191.8	17.0
FVH - Front-Very High(80-90)	248.69	1.3
Total Forward Light	12505	66.6

BL - Back-Low(0-30)	1307.3	7.0
BM - Back-Medium(30-60)	2942.8	15.7
BH - Back-High(60-80)	1730.4	9.2
BVH - Back-Very High(80-90)	202.99	1.1
Total Back Light	6270.7	33.4

UL - Uplight-Low(90-100)	10.067	0.1
UH - Uplight-High(100-180)	138.86	0.7
Total Up Light	148.92	0.8

BUG(Back,Up,Glare) Rating	B3-U3-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6183.5	87.148	6270.7
Street Side	12443	61.776	12505

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:23 June 2025

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:6.895m [K=0.9717]

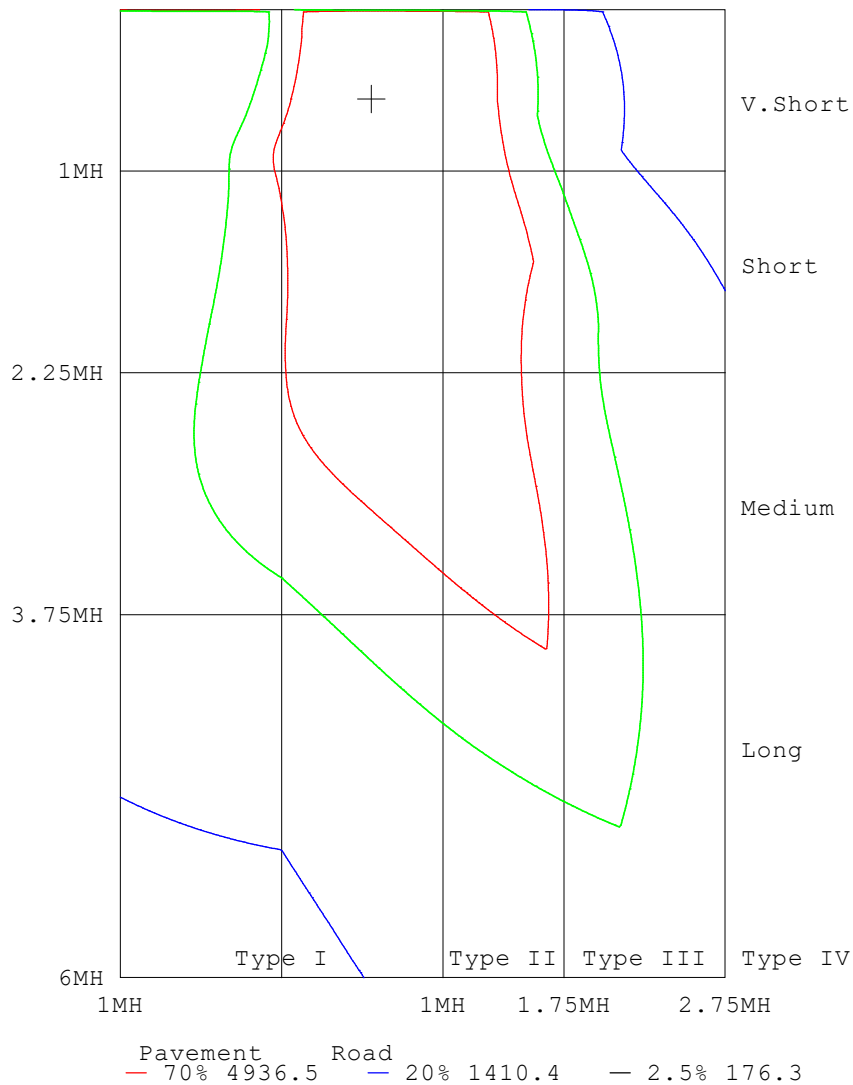
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.93V I:1.0681A P:127.83W PF:0.9979 Freq:60.00Hz		
UTHDi:1.30% ITHDi:3.87% KDisp:0.9998 Lamp Flux:18775.4x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	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: 23 June 2025

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.471
 Humidity: 65.0%
 Test Distance: 6.895m [K=0.9717]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.93V I:1.0681A P:127.83W PF:0.9979 Freq:60.00Hz																	
UTHDi:1.30% ITHDi:3.87% KDisp:0.9998									Lamp Flux:18775.4x1 lm								
NAME: streetlight									TYPE:						WEIGHT:		
SPEC.:									DIM.:						SERIAL No.:		
MFR.: EVERFINE									SUR.:						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	4030	4030	4030	4030	4030	4030	4030	4030	4030	4030	4030	4030	4030	4030	4030	4030			
5	4050	4225	4373	4471	4503	4467	4362	4205	4018	3846	3705	3618	3589	3626	3724	3874			
10	4103	4524	4874	5103	5178	5100	4858	4479	4018	3602	3291	3125	3078	3147	3339	3674			
15	4154	4733	5190	5478	5567	5469	5163	4659	4030	3465	3072	2891	2847	2919	3134	3570			
20	4279	5087	5653	5968	6053	5925	5561	4939	4083	3310	2811	2634	2595	2668	2891	3458			
25	4383	5351	5964	6270	6331	6178	5789	5134	4145	3233	2675	2501	2463	2540	2761	3405			
30	4569	5793	6478	6660	6605	6474	6117	5444	4264	3154	2507	2363	2315	2410	2591	3350			
35	4734	6137	6821	6705	6524	6487	6335	5664	4350	3114	2404	2318	2236	2365	2480	3328			
40	5071	6705	6926	6458	6224	6251	6478	6077	4525	3069	2245	2263	2075	2267	2320	3365			
45	5105	6675	6743	6258	5996	6064	6411	6363	4717	3079	2139	2150	1929	2115	2237	3328			
50	4865	6353	6528	5844	5336	5668	6251	6211	4680	2936	1970	1861	1686	1794	2030	3021			
55	4794	6269	6398	5228	4376	5074	6157	6102	4540	2768	1818	1655	1525	1594	1845	2851			
60	4780	6189	5958	3423	2303	3349	5813	5993	4399	2533	1568	1361	1294	1313	1573	2650			
65	4822	6152	5272	2100	1250	2084	5159	5995	4392	2410	1393	1172	1147	1135	1387	2558			
70	4608	5982	3557	770	622	786	3410	5958	4417	2234	1122	910	964	881	1110	2447			
75	3531	5613	2173	454	424	482	2096	5758	4292	2174	909	741	911	735	896	2134			
80	1100	3283	524	210	204	233	732	4309	2462	1541	600	517	624	539	484	987			
85	208	895	137	92.9	92.3	117	225	1938	812	704	376	376	293	325	172	233			
90	14.9	30.1	7.60	9.12	4.66	10.9	18.2	25.5	17.6	10.6	3.31	2.73	1.92	3.31	9.39	15.1			
95	18.9	13.6	7.45	5.93	4.56	4.20	4.12	5.57	12.5	11.0	4.02	2.31	2.49	5.39	13.3	13.9			
100	24.9	18.1	10.2	6.23	5.65	5.53	5.61	7.53	19.2	16.1	7.35	3.87	4.38	10.1	19.1	17.9			
105	28.4	20.8	12.1	7.46	6.71	6.49	6.67	8.72	23.2	19.5	10.3	5.85	6.70	14.1	22.6	20.1			
110	33.8	25.3	15.3	9.65	8.67	8.29	8.48	10.6	28.7	24.6	15.0	10.3	11.9	20.2	27.5	23.7			
115	37.7	28.4	17.5	11.2	10.2	9.61	9.77	12.1	32.7	28.5	18.4	13.8	15.8	24.1	30.8	26.7			
120	43.0	32.8	20.7	13.5	12.3	11.6	11.7	14.2	39.1	34.4	23.5	19.3	21.6	29.6	35.6	30.3			
125	45.4	35.1	22.5	15.0	13.5	12.9	12.9	15.5	42.6	38.0	27.1	23.1	25.4	33.1	38.1	31.7			
130	46.6	37.0	24.7	17.1	15.2	14.5	14.5	16.9	46.5	42.7	32.6	29.0	31.0	37.9	40.9	32.4			
135	46.7	37.7	26.2	18.5	16.2	15.4	15.5	17.7	48.0	45.0	36.1	32.7	34.8	40.5	41.8	32.3			
140	46.9	38.8	28.4	20.8	17.8	16.8	17.0	18.8	49.2	47.8	40.6	37.9	39.8	43.3	41.4	31.6			
145	46.9	39.6	29.9	22.5	19.1	17.9	17.9	19.6	49.3	48.8	43.0	40.6	42.4	44.1	40.4	30.8			
150	47.1	40.8	32.3	25.3	21.5	19.6	19.3	20.6	49.4	49.7	45.8	43.7	44.7	44.0	38.5	29.5			
155	47.1	41.7	34.0	27.2	23.1	20.8	20.2	21.2	49.4	50.0	47.1	45.2	45.3	43.3	37.3	28.8			
160	47.2	43.1	36.7	30.4	26.0	23.2	21.8	22.0	49.6	50.3	48.4	46.6	45.2	41.9	35.6	28.3			
165	47.6	44.2	38.7	32.9	28.1	25.0	23.1	22.8	49.8	50.3	48.9	46.9	44.7	40.8	34.6	28.0			
170	48.4	46.0	41.8	36.7	31.8	28.0	25.3	24.3	50.0	50.2	48.8	46.4	43.3	38.8	33.2	27.8			
175	49.0	47.4	43.8	39.0	34.3	30.2	27.0	25.3	50.2	49.9	48.2	45.4	41.8	37.1	32.2	27.7			
180	49.8	48.9	46.3	42.5	38.2	33.8	29.6	26.8	49.8	48.9	46.3	42.6	38.3	33.8	29.7	26.8			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

Temperature:25.3℃

Operators:DAMIN

Test Date:23 June 2025

γ Range: 0 - 180DEG

γ Interval: 2.0DEG

Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471

Humidity:65.0%

Test Distance:6.895m [K=0.9717]

Remarks: