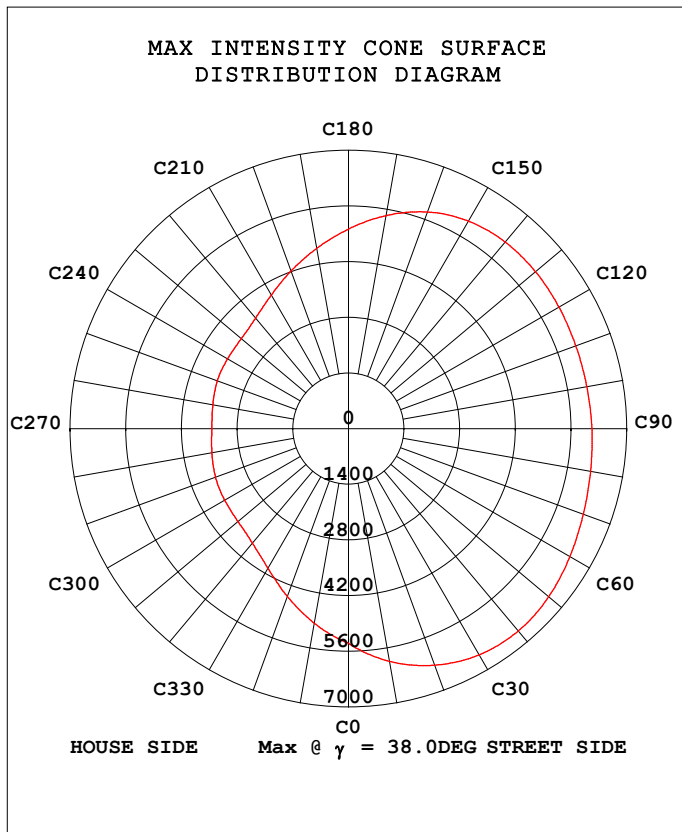
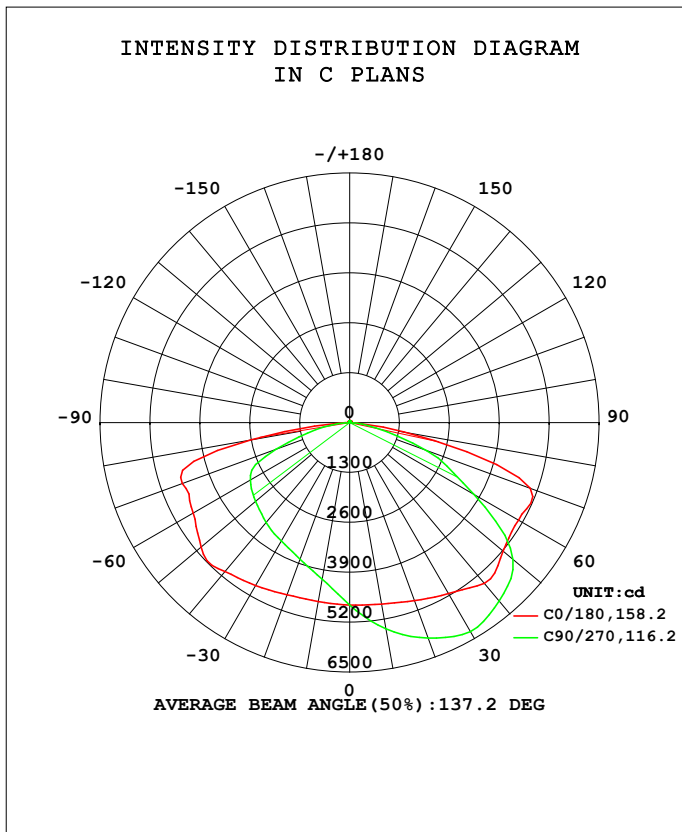


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.87V I:1.2367A P:147.92W PF:0.9978 Freq:60.00Hz		
UTHDi:1.41% ITHDi:3.51% KDisp:0.9995 Lamp Flux:23016.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.60 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-150W-BR-PS-XX	Imax (cd)	6625	η street_up (%)	0.4
NOMINAL POWER (W)	150	LOR (%)	100.0	η street_down (%)	58.8
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	23016	η house_up (%)	0.4
NOMINAL FLUX (lm)	23016.5	MAXIMUM @ (C, γ)	45,38.0	η house_down (%)	40.5
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.2	SLI	24.129



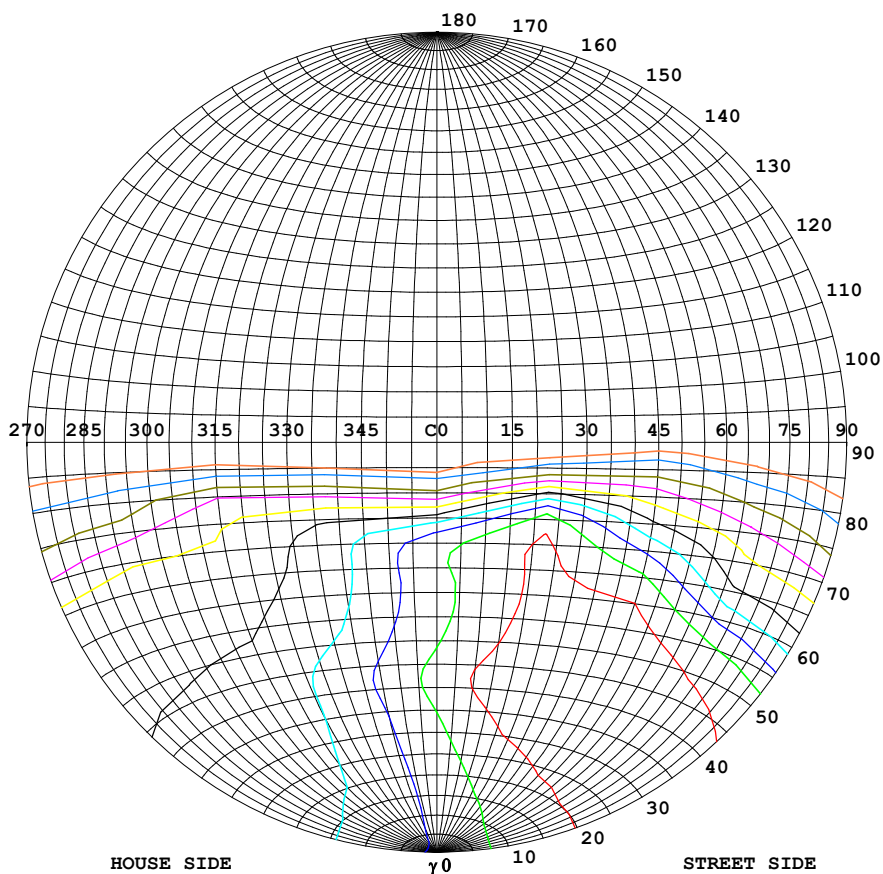
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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=1.0732]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.87V I:1.2367A P:147.92W PF:0.9978 Freq:60.00Hz UTHDi:1.41% ITHDi:3.51% KDisp:0.9995 Lamp Flux:23016.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type IV - Very Short
 CIE:Average - Short
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:188.4cd/klm
 Max.At90:4.580cd/klm
 Max.80-90:188.4cd/klm

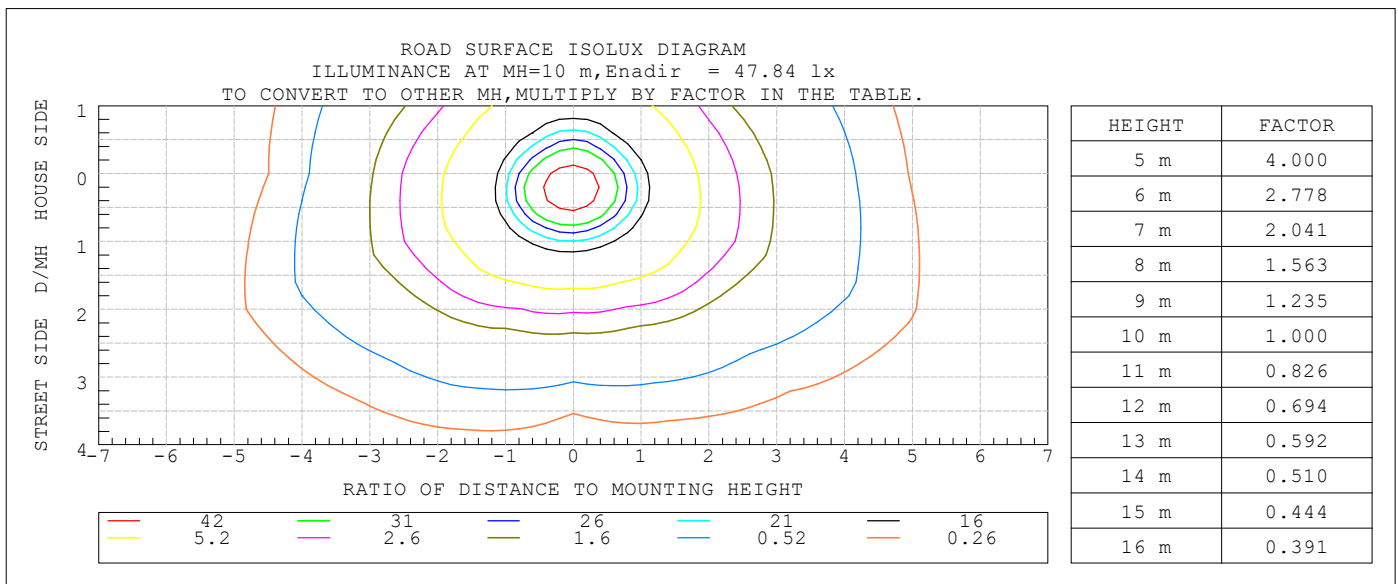
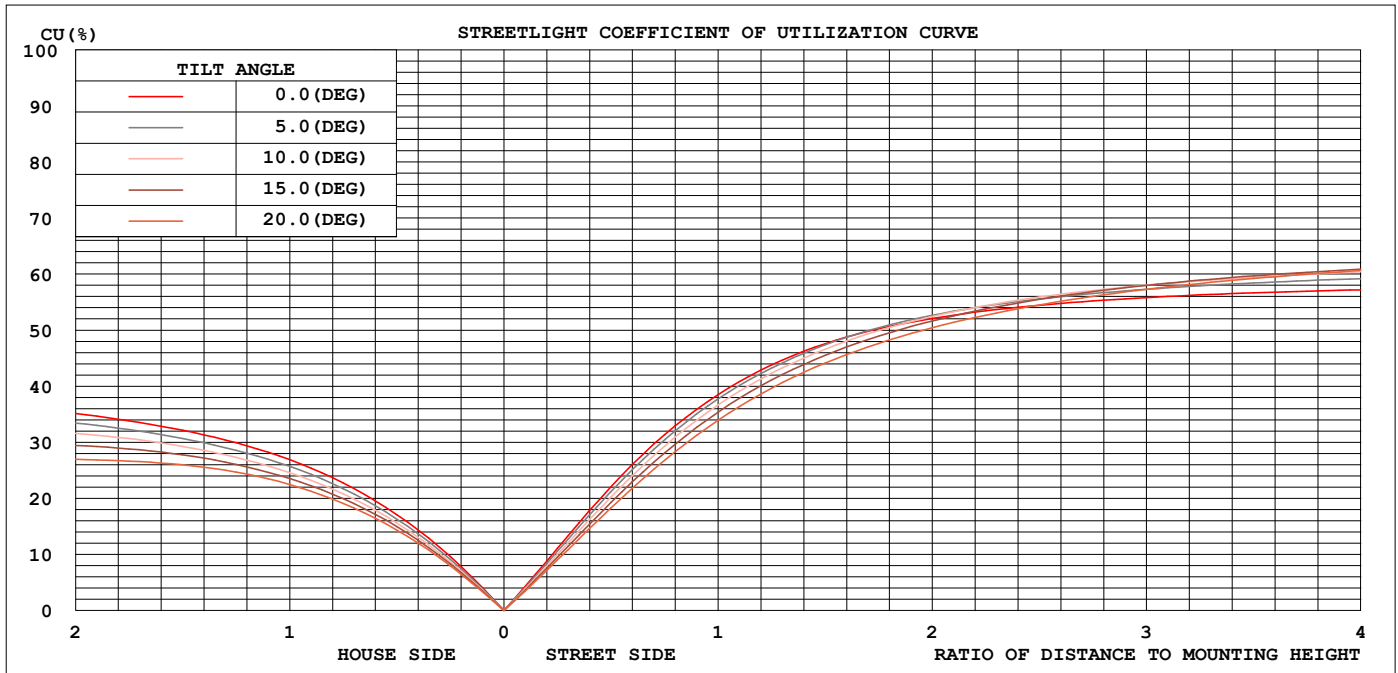
ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	6625
90%	5962
80%	5300
70%	4637
60%	3975
50%	3312
40%	2650
30%	1987
20%	1325
10%	662
5%	331

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=1.0732]
 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=1.0732]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:119.87V I:1.2367A P:147.92W PF:0.9978 Freq:60.00Hz		
UTHDi:1.41% ITHDi:3.51% KDisp:0.9995 Lamp Flux:23016.5x1 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	4799	5280	5458	5247	4733	4277	4141	4310	0- 10	455.0	455.0	1.98,1.98
20	4936	5770	5971	5643	4774	3948	3788	4005	10- 20	1366	1821	7.91,7.91
30	5145	6285	6289	5950	4901	3716	3565	3808	20- 30	2274	4095	17.8,17.8
40	5461	6615	6062	6148	5062	3520	3396	3648	30- 40	3143	7238	31.4,31.4
50	5215	6353	5553	6004	5049	3300	3199	3441	40- 50	3818	11057	48,48
60	5081	5938	3725	5631	4713	2927	2992	3069	50- 60	4066	15122	65.7,65.7
70	5004	4504	2145	4048	4644	2505	2043	2741	60- 70	3882	19004	82.6,82.6
80	1436	2322	504.6	2270	2617	1932	693.9	1963	70- 80	3006	22010	95.6,95.6
90	16.39	15.57	9.184	105.4	17.05	8.203	4.426	11.63	80- 90	825.4	22835	99.2,99.2
100	25.72	15.90	12.24	12.69	20.88	13.64	10.15	20.44	90-100	15.60	22851	99.3,99.3
110	34.59	22.38	17.91	17.41	30.35	21.73	18.35	28.65	100-110	20.56	22871	99.4,99.4
120	43.50	28.73	23.24	22.75	40.42	30.31	27.50	36.17	110-120	26.72	22898	99.5,99.5
130	46.94	32.54	27.02	26.40	47.10	38.09	35.55	41.03	120-130	29.96	22928	99.6,99.6
140	47.35	35.52	28.95	28.26	49.49	43.64	42.21	42.06	130-140	28.84	22957	99.7,99.7
150	47.79	38.34	31.51	29.54	49.63	46.78	45.37	40.68	140-150	24.73	22982	99.8,99.8
160	48.07	41.59	34.71	31.34	49.99	48.66	45.92	39.55	150-160	18.84	23000	99.9,99.9
170	49.46	45.53	38.72	34.06	50.90	49.62	45.55	39.03	160-170	11.95	23012	100,100
180	50.94	48.52	42.91	37.29	50.97	48.55	42.98	37.33	170-180	4.157	23016	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

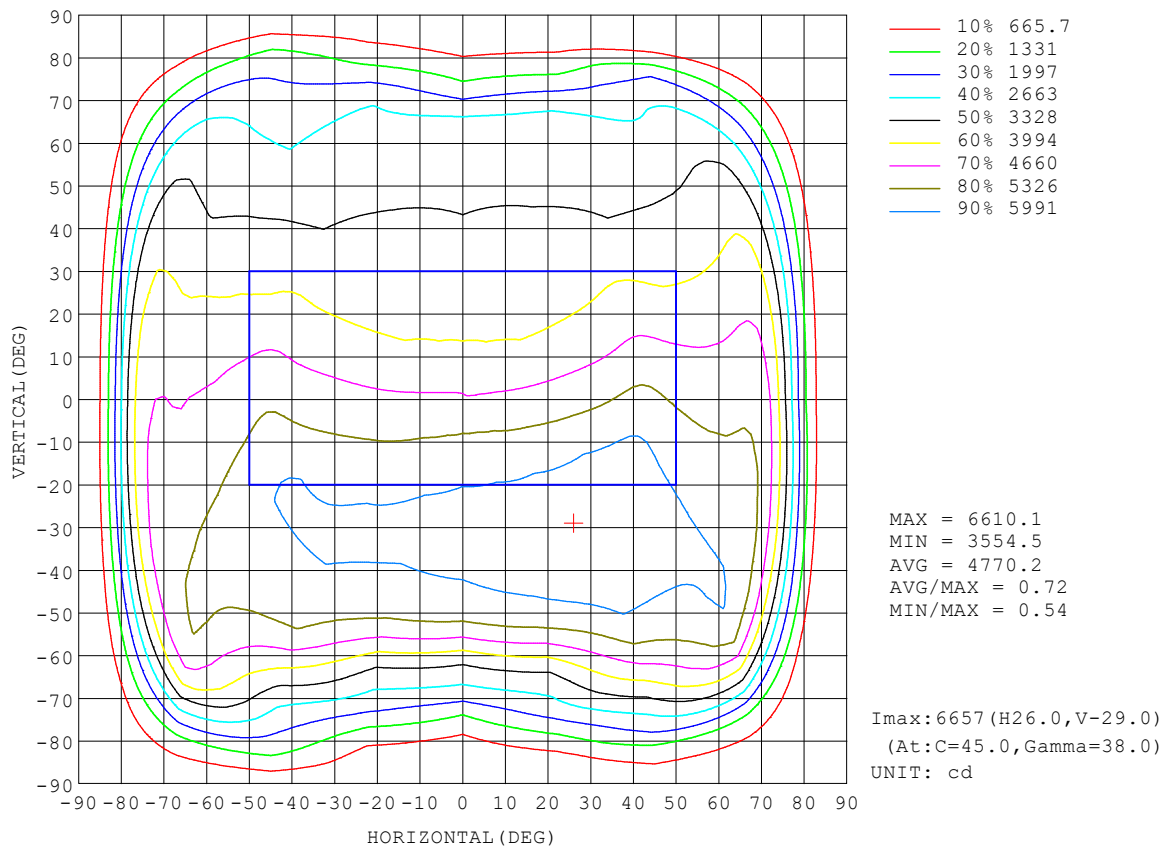
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:23 June 2025

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=1.0732]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

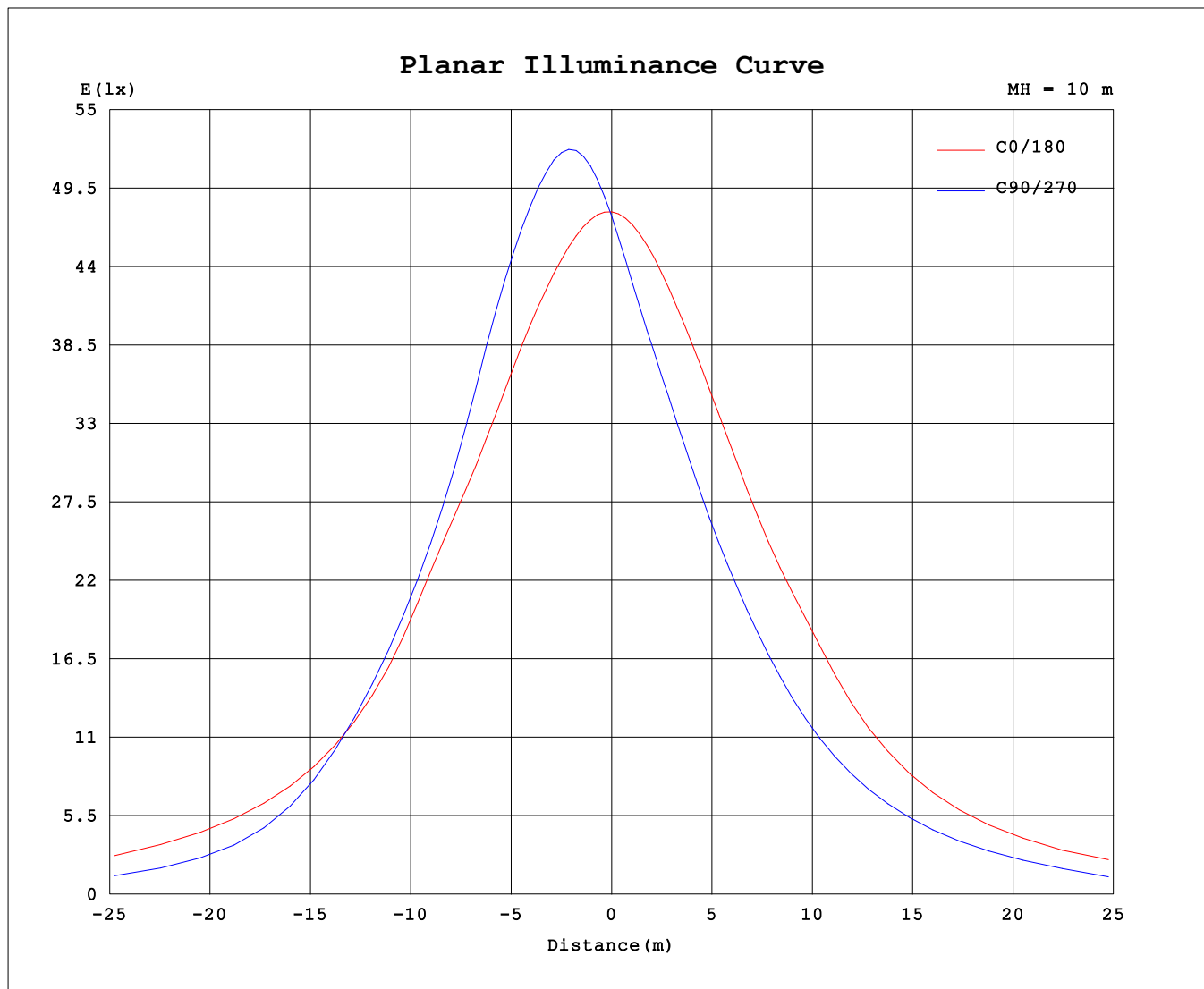
Test:U:119.87V I:1.2367A P:147.92W PF:0.9978 Freq:60.00Hz		
UTHDi:1.41% ITHDi:3.51% KDisp:0.9995 Lamp Flux:23016.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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=1.0732]
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=1.0732]

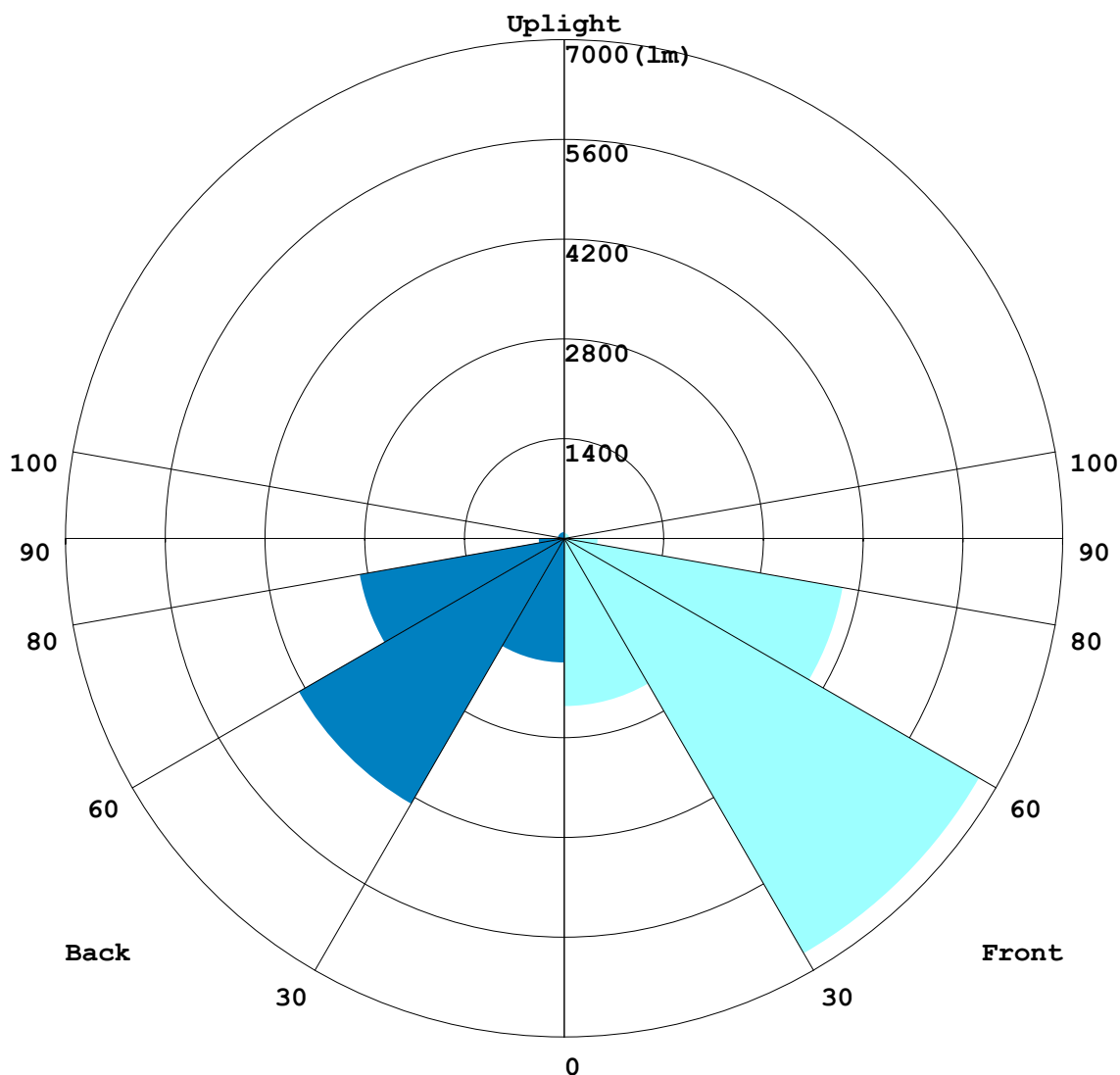
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:119.87V I:1.2367A P:147.92W PF:0.9978 Freq:60.00Hz		
UTHDi:1.41% ITHDi:3.51% KDisp:0.9995 Lamp Flux:23016.5x1 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=1.0732]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:119.87V I:1.2367A P:147.92W PF:0.9978 Freq:60.00Hz UTHDi:1.41% ITHDi:3.51% KDisp:0.9995 Lamp Flux:23016.5x1 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)	2353.3	10.2
FM - Front-Medium(30-60)	6727.6	29.2
FH - Front-High(60-80)	3972.5	17.3
FVH - Front-Very High(80-90)	470.8	2.0
Total Forward Light	13609	59.1

BL - Back-Low(0-30)	1742.1	7.6
BM - Back-Medium(30-60)	4299.2	18.7
BH - Back-High(60-80)	2915	12.7
BVH - Back-Very High(80-90)	354.6	1.5
Total Back Light	9407.7	40.9

UL - Uplight-Low(90-100)	15.595	0.1
UH - Uplight-High(100-180)	165.76	0.7
Total Up Light	181.36	0.8

BUG(Back,Up,Glare) Rating	B4-U3-G4
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	9310.9	96.783	9407.7
Street Side	13524	84.573	13609

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=1.0732]

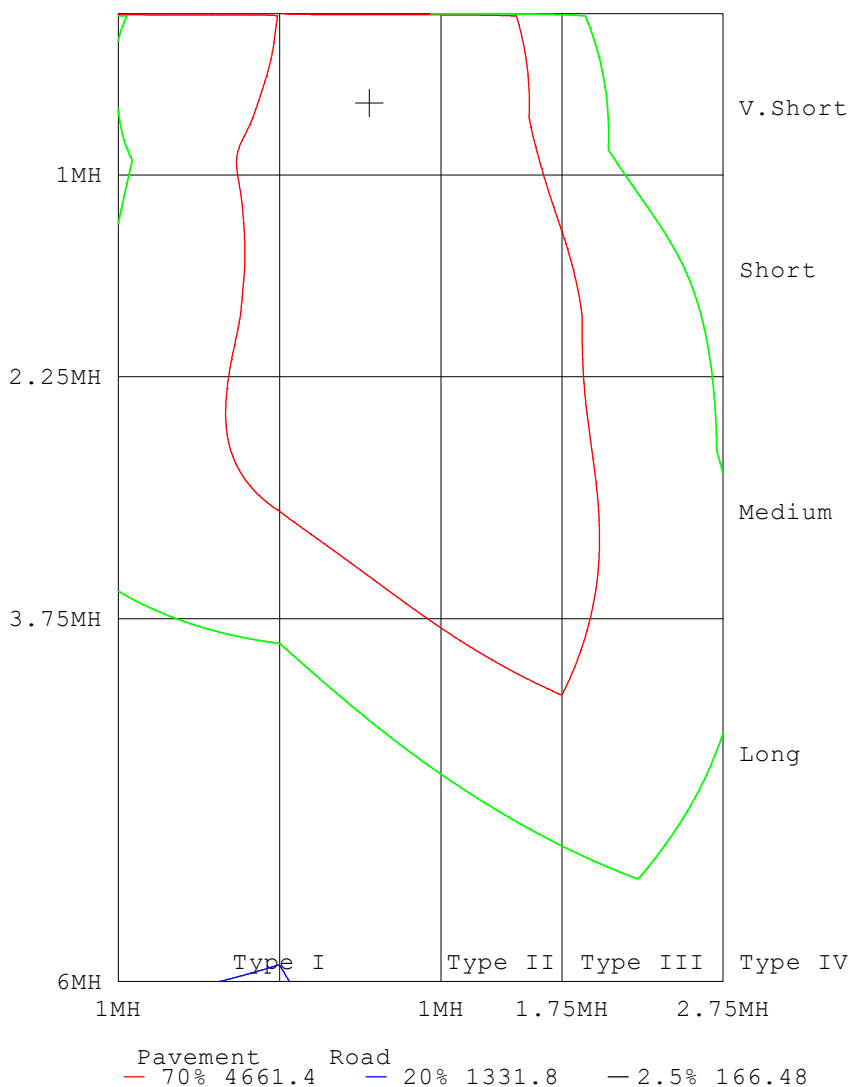
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.87V I:1.2367A P:147.92W PF:0.9978 Freq:60.00Hz		
UTHDi:1.41% ITHDi:3.51% KDisp:0.9995 Lamp Flux:23016.5x1 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℃
 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=1.0732]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.87V I:1.2367A P:147.92W PF:0.9978 Freq:60.00Hz		
UTHDi:1.41% ITHDi:3.51% KDisp:0.9995 Lamp Flux:23016.5x1 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	4752	4752	4752	4752	4752	4752	4752	4752	4752	4752	4752	4752	4752	4752	4752	4752			
5	4766	4876	4968	5030	5046	5022	4954	4854	4741	4634	4546	4492	4474	4499	4561	4654			
10	4799	5065	5280	5418	5458	5402	5247	5013	4733	4475	4277	4171	4141	4186	4310	4526			
15	4840	5201	5477	5648	5690	5617	5424	5117	4736	4384	4131	4010	3979	4028	4171	4459			
20	4936	5439	5770	5941	5971	5874	5643	5276	4774	4283	3948	3820	3788	3839	4005	4400			
25	5017	5619	5967	6116	6128	6011	5768	5392	4818	4238	3848	3714	3680	3738	3919	4381			
30	5145	5912	6285	6355	6289	6176	5950	5583	4901	4189	3716	3595	3565	3639	3808	4362			
35	5249	6133	6509	6397	6243	6180	6074	5717	4956	4163	3635	3556	3504	3612	3741	4358			
40	5461	6521	6615	6259	6062	6037	6148	5968	5062	4130	3520	3496	3396	3546	3648	4405			
45	5445	6528	6529	6139	5926	5915	6107	6141	5169	4135	3445	3405	3311	3444	3610	4371			
50	5215	6261	6353	5891	5553	5652	6004	6006	5049	3972	3300	3209	3199	3254	3441	4115			
55	5120	6174	6232	5537	4997	5282	5910	5896	4902	3819	3149	3088	3126	3145	3287	3973			
60	5081	6091	5938	4471	3725	4226	5631	5760	4713	3582	2927	2927	2992	3003	3069	3797			
65	5129	6078	5526	3616	3028	3436	5179	5710	4640	3445	2755	2829	2846	2922	2923	3724			
70	5004	6046	4504	2765	2145	2620	4048	5591	4644	3265	2505	2679	2043	2589	2741	3694			
75	3981	5742	3611	2331	1317	2073	3198	5457	4530	3226	2311	2237	1384	1906	2671	3413			
80	1436	3436	2322	1186	505	924	2270	4336	2617	2339	1932	1200	694	924	1963	1814			
85	332	1128	1208	523	203	408	1638	2212	925	1020	1398	682	307	449	605	575			
90	16.4	38.2	15.6	16.9	9.18	38.0	105	93.4	17.1	14.8	8.20	5.34	4.43	7.42	11.6	18.0			
95	19.7	15.6	12.2	13.0	9.35	7.81	9.76	11.5	14.0	15.1	9.60	5.90	6.36	10.3	15.0	14.5			
100	25.7	20.5	15.9	13.9	12.2	11.1	12.7	14.7	20.9	20.3	13.6	9.18	10.1	15.2	20.4	18.6			
105	29.2	23.5	18.2	15.8	14.6	13.2	14.4	16.6	24.9	23.6	16.6	11.9	13.1	18.8	23.7	21.0			
110	34.6	28.3	22.4	19.1	17.9	16.3	17.4	19.7	30.3	28.9	21.7	16.7	18.3	24.3	28.7	25.1			
115	38.4	31.7	25.1	21.3	20.0	18.4	19.6	22.0	34.3	32.9	25.3	20.3	22.0	28.1	31.9	28.2			
120	43.5	36.3	28.7	24.5	23.2	21.5	22.8	25.3	40.4	38.6	30.3	25.7	27.5	33.1	36.2	32.2			
125	45.7	38.6	30.6	26.1	25.0	23.4	24.5	26.9	43.7	41.5	33.5	29.2	30.9	36.2	38.4	34.0			
130	46.9	40.5	32.5	27.9	27.0	25.7	26.4	28.1	47.1	45.3	38.1	34.4	35.6	39.9	41.0	35.4			
135	47.1	41.0	33.7	28.9	27.9	26.8	27.2	28.6	48.5	46.9	40.7	37.4	38.5	41.8	41.9	35.7			
140	47.3	42.0	35.5	30.6	28.9	28.1	28.3	29.3	49.5	48.5	43.6	41.2	42.2	43.7	42.1	35.8			
145	47.5	42.7	36.6	31.9	29.8	28.9	28.7	29.8	49.5	49.1	45.1	43.0	43.9	44.2	41.6	35.4			
150	47.8	43.7	38.3	34.0	31.5	30.0	29.5	30.5	49.6	49.6	46.8	44.9	45.4	44.3	40.7	34.9			
155	47.8	44.3	39.5	35.3	32.7	30.8	30.2	30.8	49.7	49.8	47.6	45.8	45.7	44.1	40.2	34.7			
160	48.1	45.5	41.6	37.7	34.7	32.5	31.3	31.5	50.0	50.1	48.7	47.0	45.9	43.6	39.6	34.8			
165	48.5	46.5	43.1	39.6	36.2	33.8	32.3	32.1	50.3	50.4	49.2	47.4	45.9	43.3	39.3	35.0			
170	49.5	48.1	45.5	42.2	38.7	36.1	34.1	33.4	50.9	50.6	49.6	47.7	45.6	42.6	39.0	35.4			
175	50.3	49.4	47.0	43.7	40.4	37.6	35.5	34.3	51.2	50.8	49.5	47.4	45.0	41.9	38.7	35.8			
180	50.9	50.3	48.5	45.8	42.9	40.0	37.3	35.4	51.0	50.3	48.6	45.9	43.0	40.0	37.3	35.4			

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=1.0732]

Remarks: