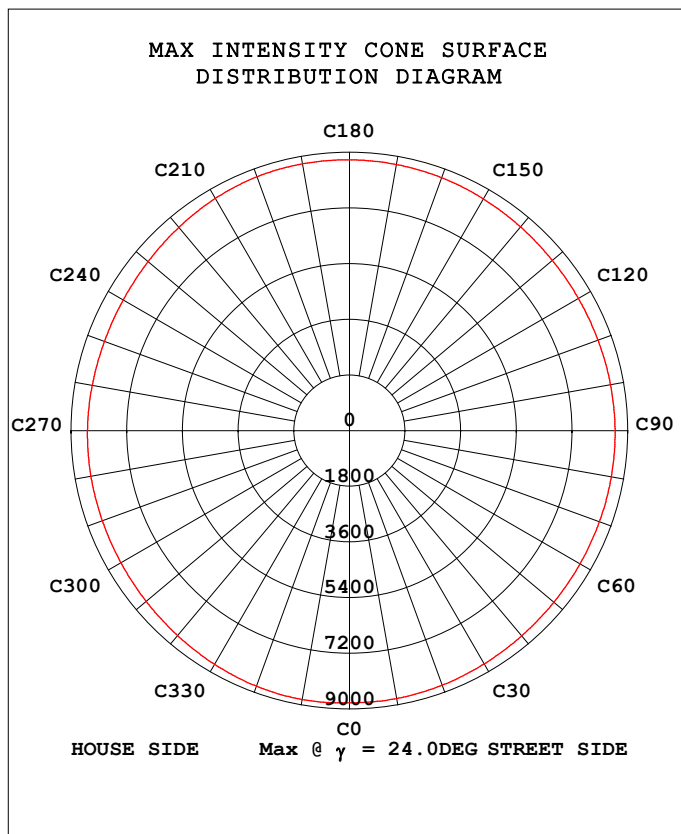
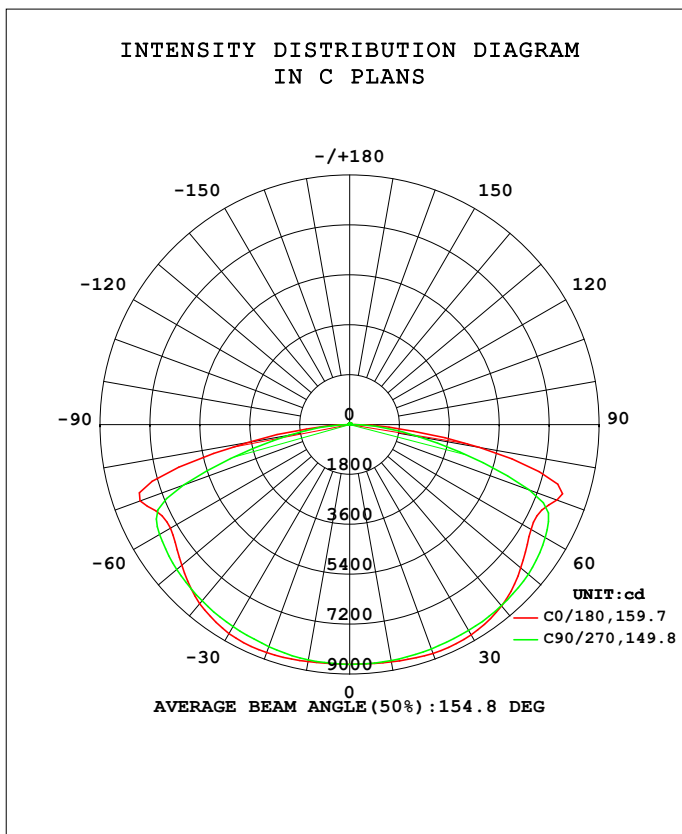


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.46V I:2.5978A P:308.27W PF:0.9934 Freq:60.00Hz		
UTHDi:2.06% ITHDi:8.79% KDisp:0.9980 Lamp Flux:44580.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.61 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-PS-XX	Imax (cd)	8793	η street_up (%)	0.5
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	50.4
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	44581	η house_up (%)	0.4
NOMINAL FLUX (lm)	44580.6	MAXIMUM @ (C, γ)	0,24.0	η house_down (%)	48.7
LAMPS INSIDE	1	η up (%)	0.9	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.1	SLI	25.406



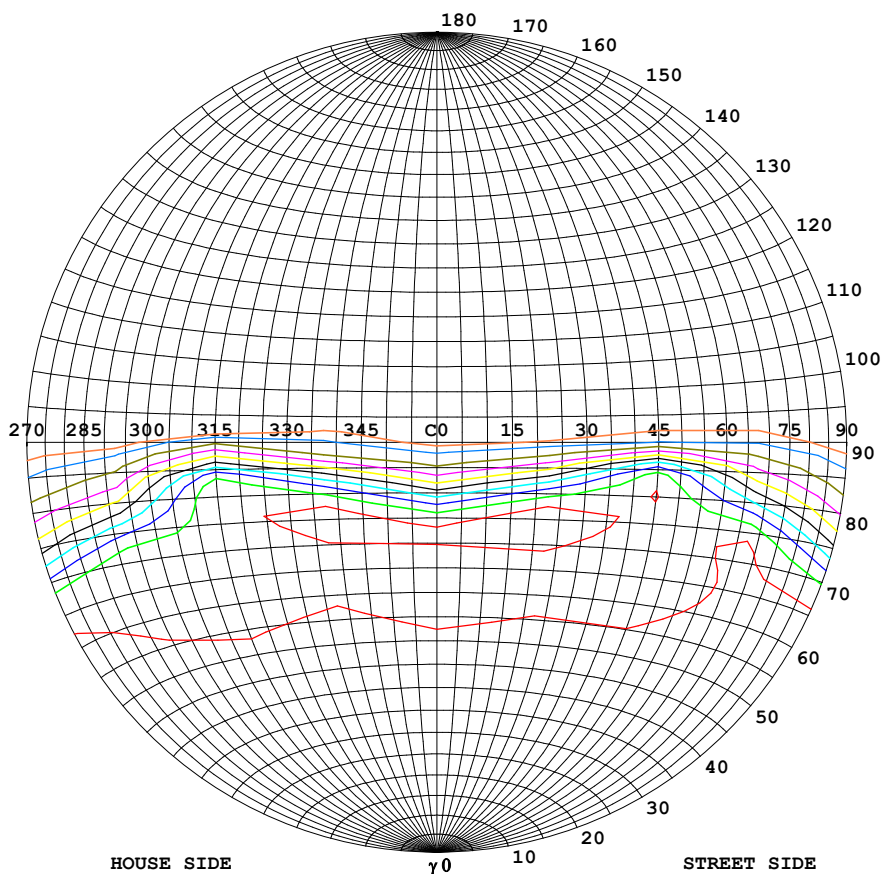
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:DAMIN
Test Date:21 June 2025

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=1.0297]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.46V I:2.5978A P:308.27W PF:0.9934 Freq:60.00Hz		
UTHDi:2.06% ITHDi:8.79% KDisp:0.9980 Lamp Flux:44580.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type VS - Very Short
 CIE:Broad - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:186.8cd/klm
 Max.At90:35.08cd/klm
 Max.80-90:186.8cd/klm

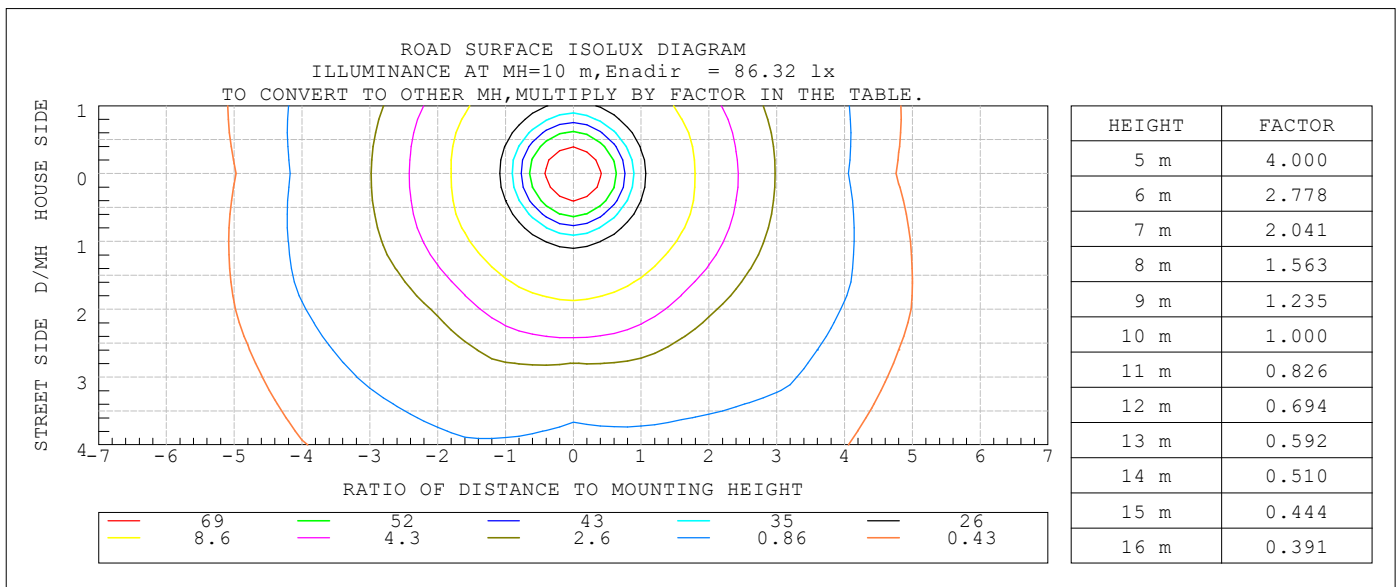
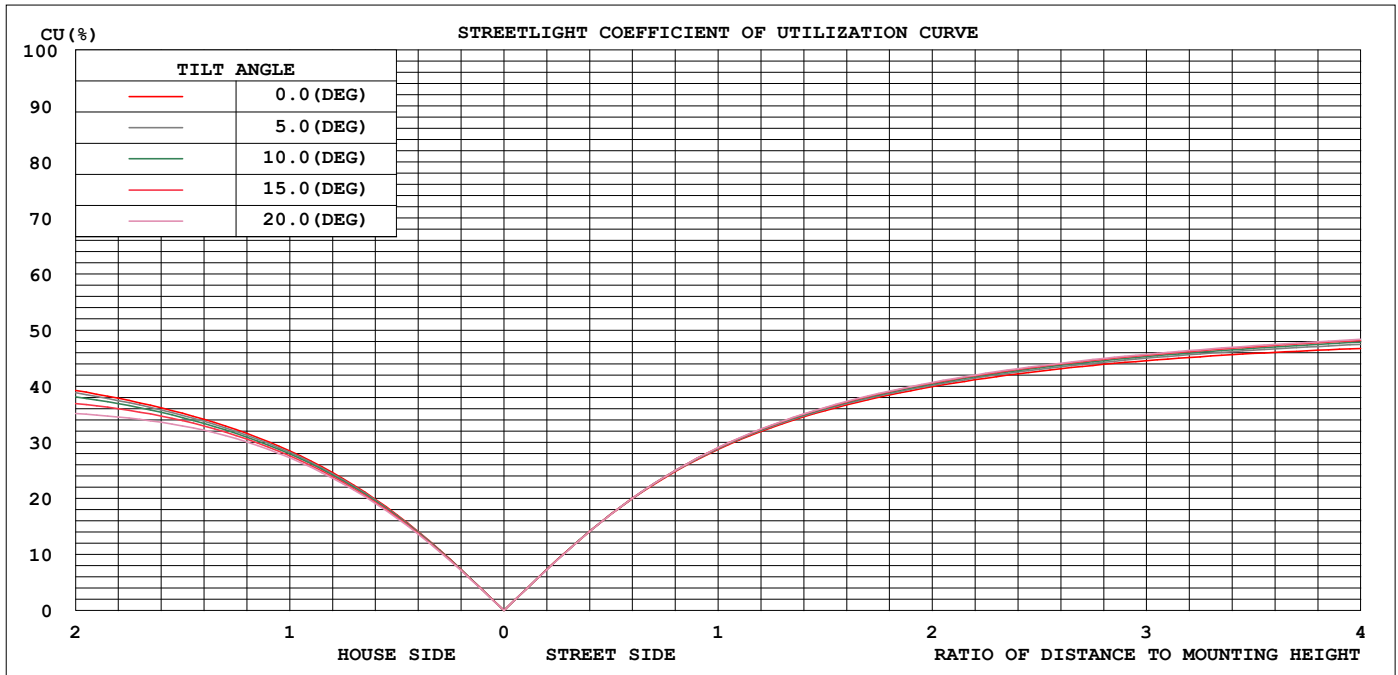
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	8793
90%	7914
80%	7035
70%	6155
60%	5276
50%	4397
40%	3517
30%	2638
20%	1759
10%	879
5%	440

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:21 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=1.0297]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

Temperature: 25.3 °C

Operators: DAMIN

Test Date: 21 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=1.0297]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:119.46V I:2.5978A P:308.27W PF:0.9934 Freq:60.00Hz		
UTHDi:2.06% ITHDi:8.79% KDisp:0.9980 Lamp Flux:44580.6x1 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	8688	8666	8640	8649	8679	8622	8616	8669	0- 10	825.6	825.6	1.85,1.85
20	8780	8665	8608	8622	8755	8586	8522	8651	10- 20	2454	3280	7.36,7.36
30	8757	8590	8572	8497	8701	8441	8415	8530	20- 30	3987	7267	16.3,16.3
40	8529	8441	8523	8306	8420	8193	8290	8332	30- 40	5330	12597	28.3,28.3
50	8057	8197	8406	8009	7904	7809	8136	8013	40- 50	6385	18982	42.6,42.6
60	7556	7808	8143	7636	7473	7335	7916	7608	50- 60	7091	26073	58.5,58.5
70	7959	7548	6881	7510	8052	7121	6368	7355	60- 70	7609	33681	75.6,75.6
80	4757	8061	2536	8328	3735	7590	2220	7880	70- 80	7248	40929	91.8,91.8
90	219.0	906.6	164.2	132.5	39.00	40.37	22.42	1564	80- 90	3242	44171	99.1,99.1
100	48.75	48.57	43.13	46.00	45.95	45.17	36.60	43.00	90-100	110.0	44281	99.3,99.3
110	58.24	56.99	55.31	54.51	55.39	54.00	47.64	50.88	100-110	52.23	44333	99.4,99.4
120	63.87	63.40	61.02	60.42	62.68	60.61	54.58	57.07	110-120	56.81	44390	99.6,99.6
130	63.68	63.33	62.55	61.20	64.53	62.45	58.09	57.73	120-130	54.68	44445	99.7,99.7
140	63.23	63.24	61.69	60.25	63.79	61.51	58.45	56.52	130-140	47.19	44492	99.8,99.8
150	62.80	62.95	61.44	58.96	62.42	60.55	57.48	55.75	140-150	37.89	44530	99.9,99.9
160	62.22	63.09	61.10	58.45	61.78	60.76	57.59	56.17	150-160	27.64	44558	99.9,99.9
170	63.22	64.41	61.25	59.25	63.36	63.24	59.77	58.92	160-170	17.10	44575	100,100
180	63.99	64.50	61.01	59.88	64.00	64.48	61.05	59.90	170-180	5.891	44581	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

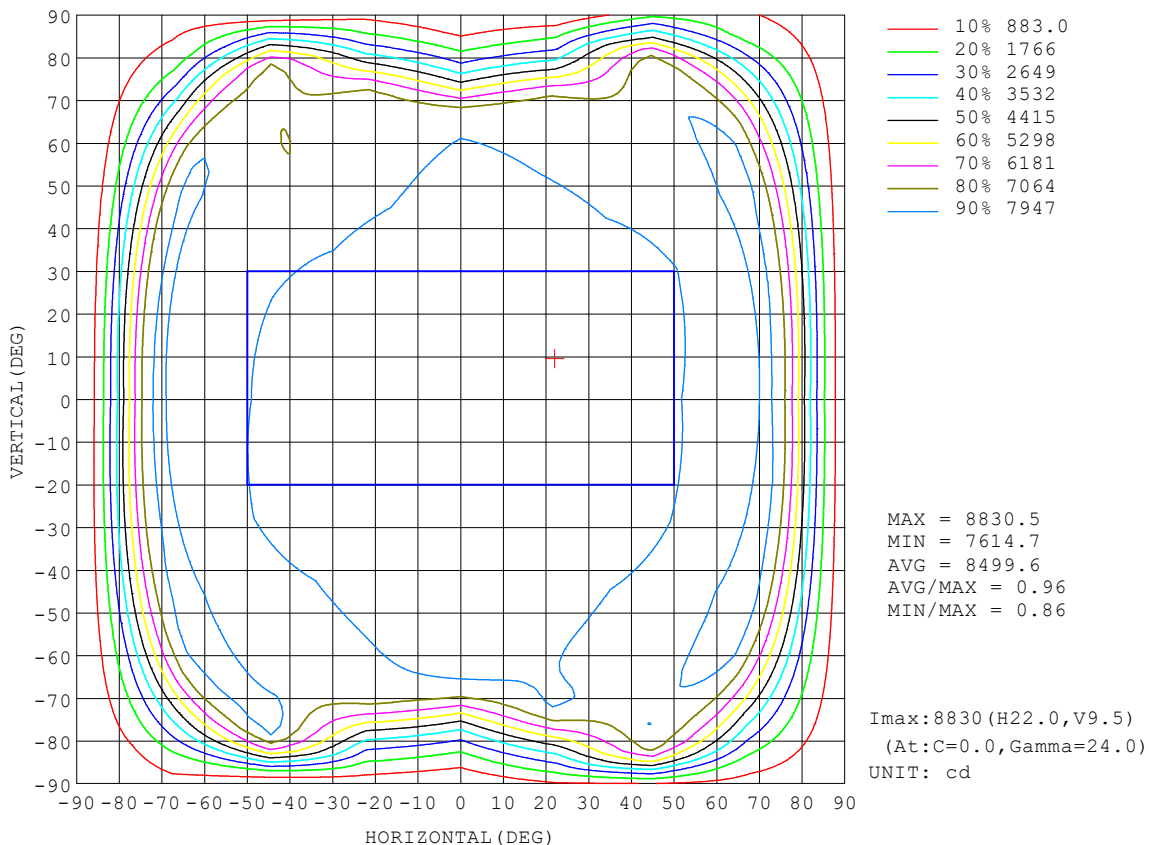
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:21 June 2025

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=1.0297]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

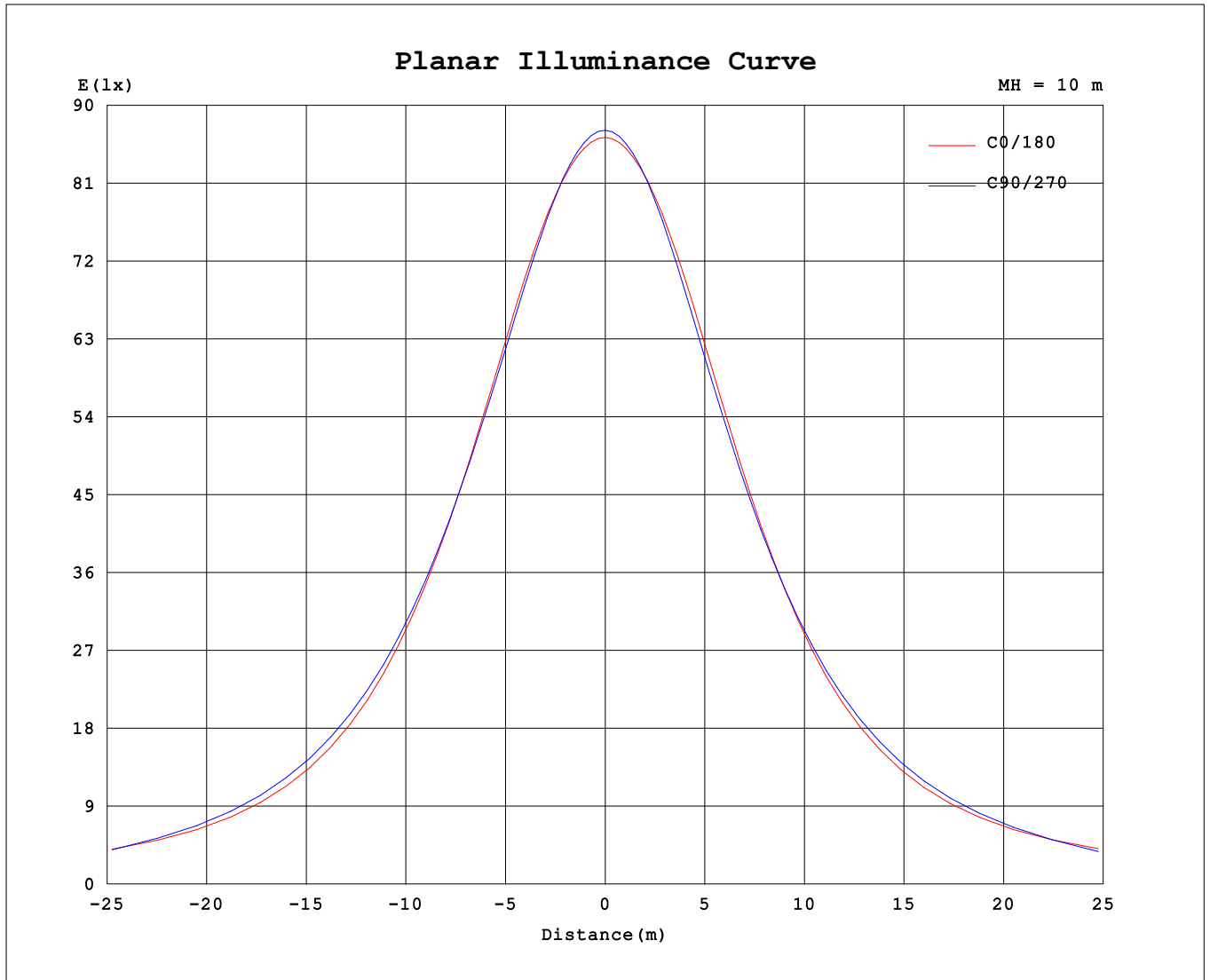
Test:U:119.46V I:2.5978A P:308.27W PF:0.9934 Freq:60.00Hz UTHDi:2.06% ITHDi:8.79% KDisp:0.9980 Lamp Flux:44580.6x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:DAMIN
Test Date:21 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=1.0297]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

Temperature: 25.3 °C

Operators: DAMIN

Test Date: 21 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=1.0297]

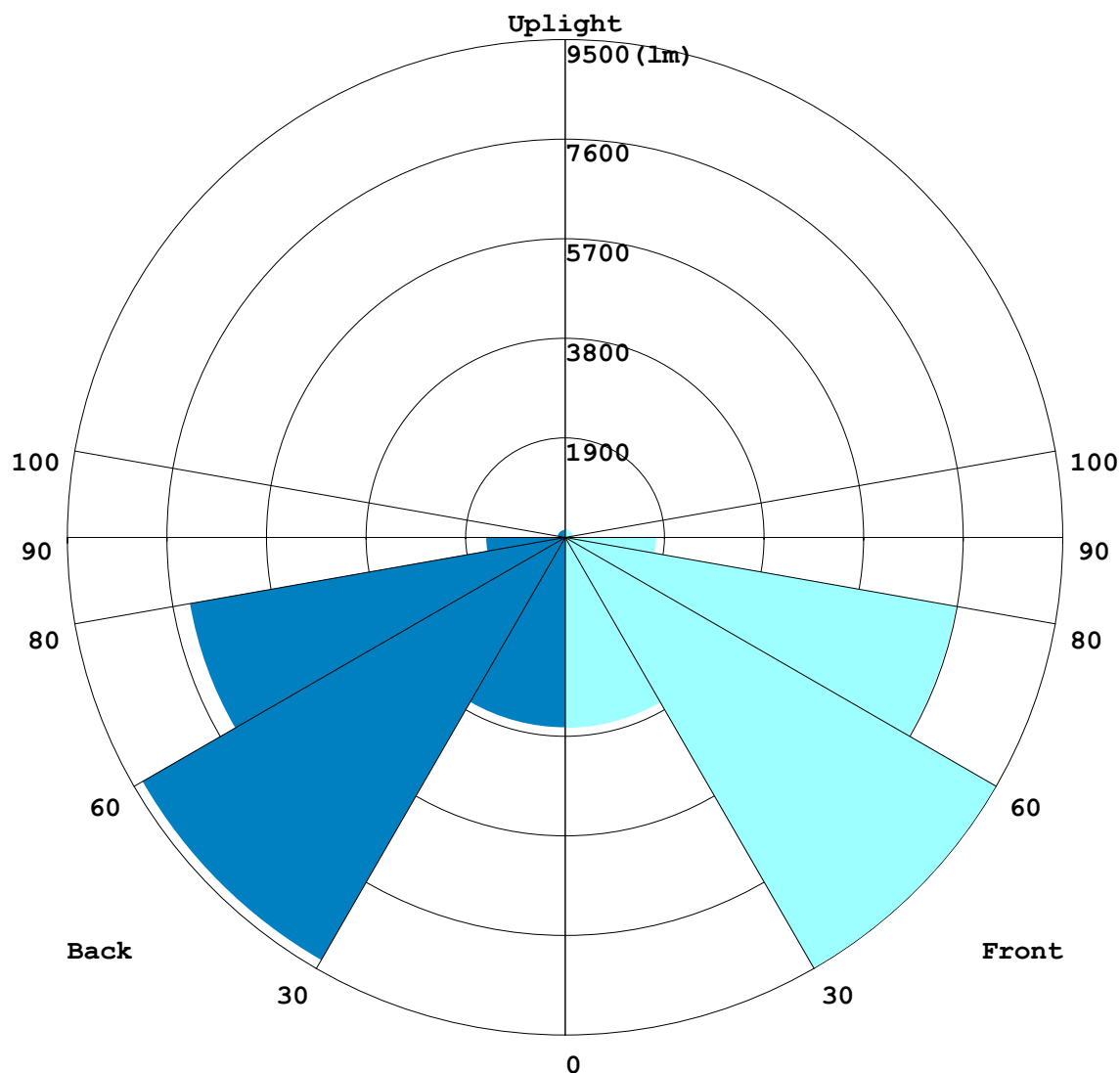
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:119.46V I:2.5978A P:308.27W PF:0.9934 Freq:60.00Hz		
UTHDi:2.06% ITHDi:8.79% KDisp:0.9980 Lamp Flux:44580.6x1 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: MEDIUM
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:21 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=1.0297]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:119.46V I:2.5978A P:308.27W PF:0.9934 Freq:60.00Hz UTHDi:2.06% ITHDi:8.79% KDisp:0.9980 Lamp Flux:44580.6x1 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)	3640.9	8.2
FM - Front-Medium(30-60)	9491.7	21.3
FH - Front-High(60-80)	7584.8	17.0
FVH - Front-Very High(80-90)	1739	3.9
Total Forward Light	22670	50.9

BL - Back-Low(0-30)	3625.8	8.1
BM - Back-Medium(30-60)	9314.4	20.9
BH - Back-High(60-80)	7271.3	16.3
BVH - Back-Very High(80-90)	1503.2	3.4
Total Back Light	21911	49.1

UL - Uplight-Low(90-100)	110.02	0.2
UH - Uplight-High(100-180)	299.42	0.7
Total Up Light	409.44	0.9

BUG(Back,Up,Glare) Rating	B5-U3-G5
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	21715	195.9	21911
Street Side	22456	213.54	22670

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:DAMIN
Test Date:21 June 2025

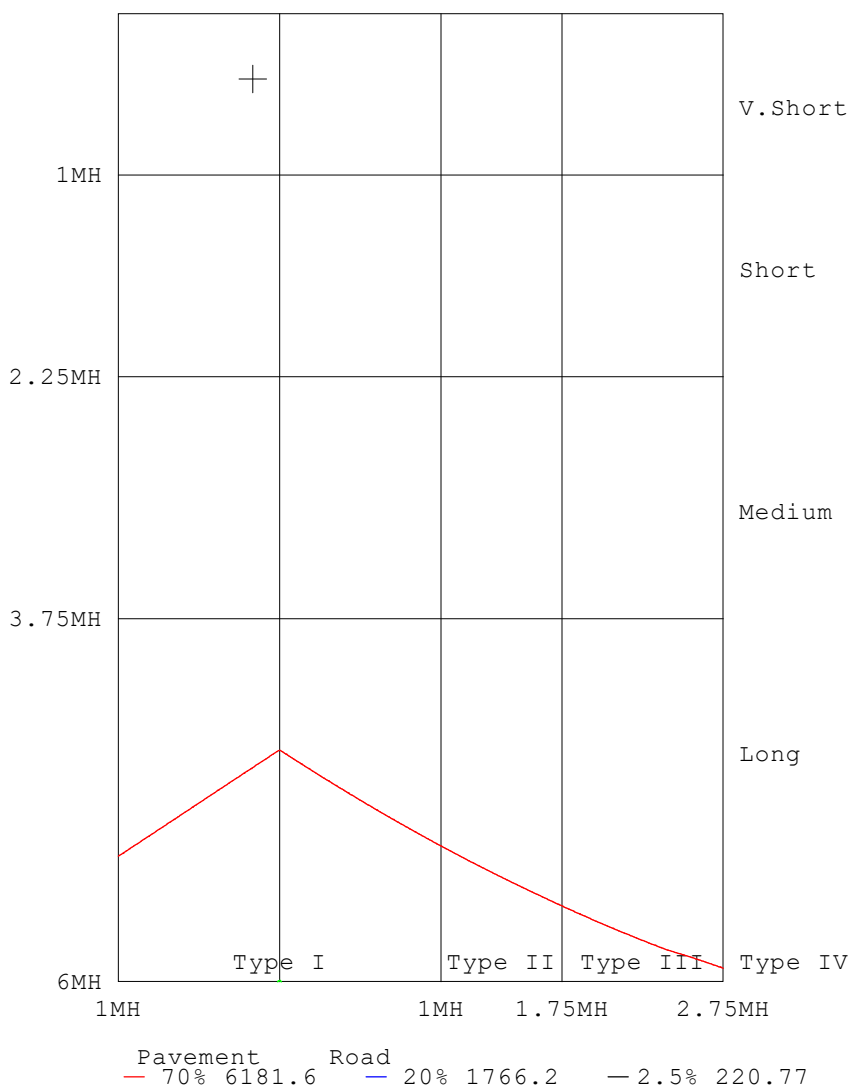
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0297]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.46V I:2.5978A P:308.27W PF:0.9934 Freq:60.00Hz UTHDi:2.06% ITHDi:8.79% KDisp:0.9980 Lamp Flux:44580.6x1 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: MEDIUM
Temperature:25.3℃
Operators:DAMIN
Test Date:21 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=1.0297]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.46V I:2.5978A P:308.27W PF:0.9934 Freq:60.00Hz																	
UTHDi:2.06% ITHDi:8.79% KDisp:0.9980									Lamp Flux:44580.6x1 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	8644	8644	8644	8644	8644	8644	8644	8644	8644	8644	8644	8644	8644	8644	8644	8644			
5	8651	8649	8652	8652	8644	8642	8642	8644	8646	8647	8635	8631	8638	8647	8653	8657			
10	8688	8675	8666	8657	8640	8634	8649	8666	8679	8669	8622	8600	8616	8642	8669	8696			
15	8726	8702	8671	8654	8630	8623	8650	8691	8713	8696	8617	8570	8587	8623	8673	8730			
20	8780	8739	8665	8630	8608	8584	8622	8708	8755	8727	8586	8495	8522	8568	8651	8773			
25	8793	8748	8645	8603	8589	8551	8582	8696	8757	8727	8542	8435	8473	8512	8615	8779			
30	8757	8718	8590	8560	8572	8492	8497	8639	8701	8674	8441	8335	8415	8437	8530	8741			
35	8694	8668	8538	8532	8564	8458	8428	8569	8613	8600	8356	8267	8372	8378	8461	8688			
40	8529	8554	8441	8467	8523	8372	8306	8424	8420	8429	8193	8132	8290	8268	8332	8564			
45	8373	8455	8361	8398	8485	8294	8198	8308	8237	8281	8056	8023	8232	8177	8216	8454			
50	8057	8242	8197	8276	8406	8160	8009	8071	7904	7993	7809	7859	8136	8031	8013	8210			
55	7832	8083	8047	8190	8322	8063	7858	7905	7693	7807	7615	7760	8060	7932	7852	8031			
60	7556	7878	7808	8057	8143	7914	7636	7716	7473	7579	7335	7636	7916	7797	7608	7786			
65	7518	7824	7661	8002	7981	7847	7521	7678	7527	7560	7183	7626	7765	7759	7464	7691			
70	7959	8119	7548	8091	6881	7695	7510	7927	8052	7979	7121	7724	6368	7586	7355	7833			
75	7807	8551	7639	7854	5008	6541	7775	8259	7417	8166	7306	6994	4471	6431	7473	8193			
80	4757	6832	8061	5266	2536	3737	8328	6716	3735	5277	7590	4277	2220	3614	7880	6934			
85	2332	4050	7531	3317	1359	2186	6548	3849	1568	2377	5424	2511	1098	2092	6709	4316			
90	219	515	907	804	164	470	133	623	39.0	447	40.4	611	22.4	60.4	1564	957			
95	39.9	37.4	43.6	40.6	33.9	31.5	40.1	44.2	36.8	42.3	38.8	28.4	27.2	35.3	37.8	34.8			
100	48.7	46.4	48.6	49.2	43.1	40.3	46.0	51.0	46.0	50.4	45.2	36.5	36.6	43.6	43.0	40.1			
105	53.4	50.5	52.3	53.3	48.8	45.0	49.3	54.0	50.4	53.9	48.7	40.7	41.8	47.5	46.1	42.9			
110	58.2	55.3	57.0	58.4	55.3	50.7	54.5	58.6	55.4	58.8	54.0	46.2	47.6	52.4	50.9	46.8			
115	61.0	58.5	60.7	61.5	58.2	54.2	57.8	61.1	58.4	61.6	57.1	49.5	50.7	55.1	53.9	49.8			
120	63.9	62.7	63.4	63.5	61.0	58.4	60.4	61.5	62.7	64.8	60.6	54.3	54.6	58.5	57.1	54.3			
125	64.4	64.0	63.6	63.2	62.3	60.4	61.2	60.8	64.2	64.9	61.9	56.7	56.5	59.1	57.8	56.0			
130	63.7	63.9	63.3	62.5	62.5	61.4	61.2	60.0	64.5	63.8	62.5	58.8	58.1	58.2	57.7	57.0			
135	63.3	63.5	63.3	62.2	62.1	61.2	61.1	59.6	64.3	63.2	62.3	59.5	58.5	57.5	57.4	57.0			
140	63.2	63.4	63.2	62.4	61.7	61.1	60.3	59.2	63.8	62.8	61.5	59.7	58.4	56.9	56.5	56.5			
145	63.2	63.3	63.1	62.5	61.8	61.0	59.7	58.8	63.4	62.5	61.0	59.3	58.1	56.7	56.0	56.1			
150	62.8	62.9	62.9	62.5	61.4	60.4	59.0	58.2	62.4	62.0	60.5	58.5	57.5	56.2	55.7	55.4			
155	62.4	62.7	63.0	62.5	61.2	60.1	58.7	58.0	61.8	61.6	60.5	58.3	57.3	56.0	55.8	55.3			
160	62.2	62.7	63.1	62.6	61.1	59.8	58.4	57.7	61.8	61.7	60.8	58.5	57.6	56.2	56.2	55.7			
165	62.4	63.0	63.5	62.9	61.2	59.9	58.5	57.9	62.2	62.3	61.4	59.2	58.2	57.1	57.0	56.4			
170	63.2	64.2	64.4	62.8	61.2	59.9	59.3	58.8	63.4	63.6	63.2	61.0	59.8	58.7	58.9	58.3			
175	63.9	64.7	64.6	62.7	61.3	60.0	59.8	59.4	64.0	64.4	64.0	61.8	60.6	59.6	59.7	59.2			
180	64.0	64.7	64.5	62.4	61.0	59.9	59.9	59.5	64.0	64.7	64.5	62.4	61.0	59.9	59.9	59.5			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

Temperature:25.3℃

Operators:DAMIN

Test Date:21 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=1.0297]

Remarks: