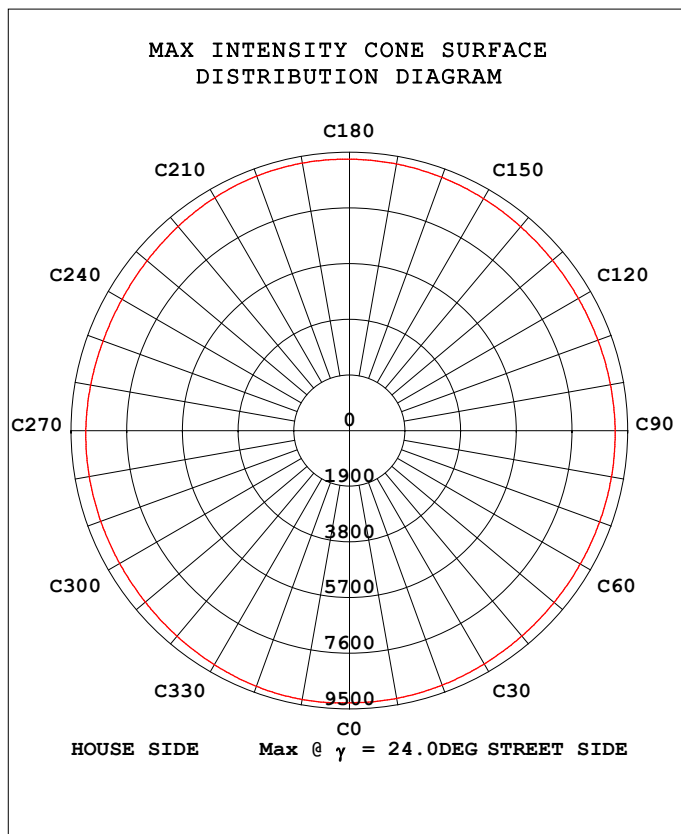
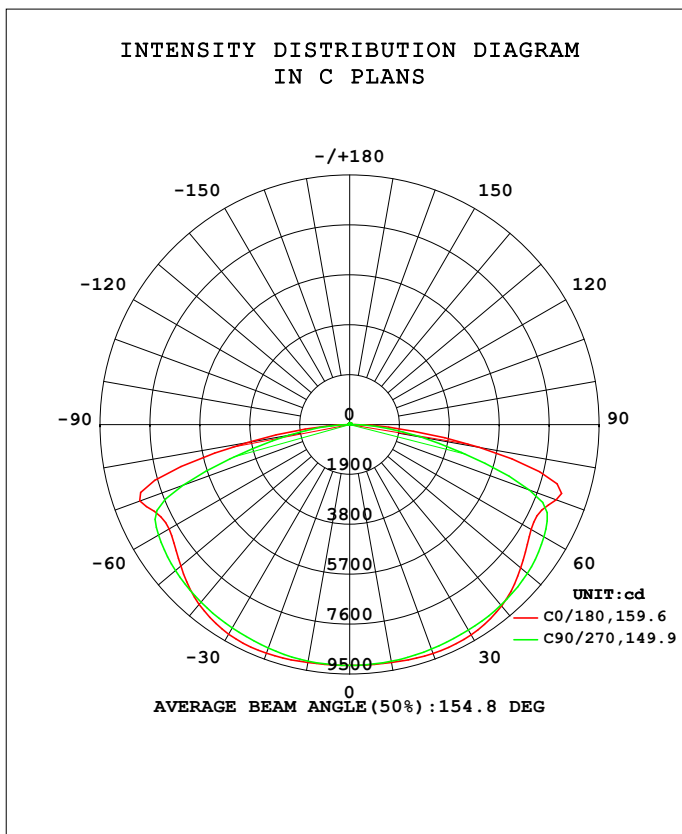


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.40V I:2.5040A P:297.05W PF:0.9935 Freq:60.00Hz		
UTHDi:1.98% ITHDi:8.92% KDisp:0.9979 Lamp Flux:47064.1x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.44 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-PS-XX	Imax (cd)	9282	$\eta$ street_up (%)	0.5
NOMINAL POWER (W)	300	LOR (%)	100.0	$\eta$ street_down (%)	50.2
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	47064	$\eta$ house_up (%)	0.4
NOMINAL FLUX (lm)	47064.1	MAXIMUM @ (C, $\gamma$ )	0,24.0	$\eta$ house_down (%)	48.9
LAMPS INSIDE	1	$\eta$ up (%)	0.9	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	$\eta$ down (%)	99.1	SLI	25.482



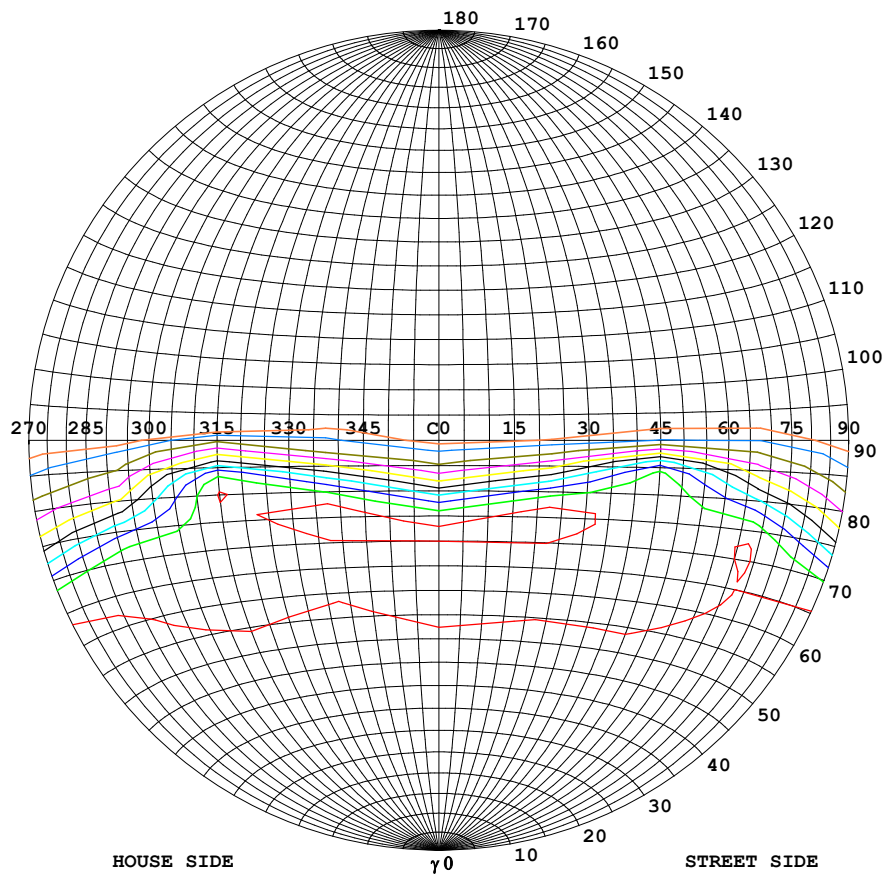
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:DAMIN  
Test Date:21 June 2025

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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:119.40V I:2.5040A P:297.05W PF:0.9935 Freq:60.00Hz		
UTHDi:1.98% ITHDi:8.92% KDisp:0.9979 Lamp Flux:47064.1x1 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.At80:181.6cd/klm  
 Max.At90:34.54cd/klm  
 Max.80-90:181.6cd/klm

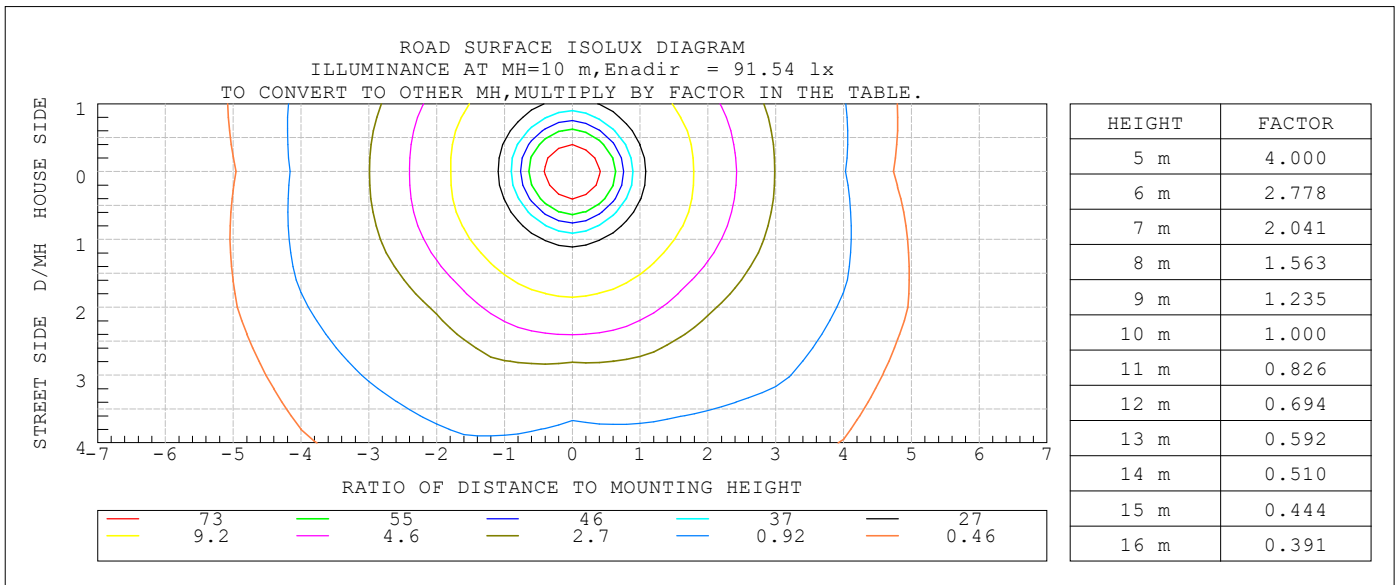
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	9282
90%	8354
80%	7426
70%	6497
60%	5569
50%	4641
40%	3713
30%	2785
20%	1856
10%	928
5%	464

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 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: HIGH

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:119.40V I:2.5040A P:297.05W PF:0.9935 Freq:60.00Hz		
UTHDi:1.98% ITHDi:8.92% KDisp:0.9979 Lamp Flux:47064.1x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	9198	9175	9150	9154	9197	9148	9146	9187	0- 10	875.1	875.1	1.86,1.86
20	9272	9158	9094	9112	9265	9102	9051	9168	10- 20	2598	3473	7.38,7.38
30	9247	9066	9034	8969	9214	8958	8940	9039	20- 30	4218	7691	16.3,16.3
40	9003	8897	8965	8754	8925	8702	8816	8835	30- 40	5637	13329	28.3,28.3
50	8505	8613	8825	8430	8392	8305	8653	8498	40- 50	6750	20079	42.7,42.7
60	7978	8177	8538	8020	7945	7817	8408	8075	50- 60	7492	27571	58.6,58.6
70	8372	7863	7284	7841	8508	7577	6747	7827	60- 70	8026	35597	75.6,75.6
80	5015	8302	2734	8545	3955	8001	2356	8398	70- 80	7615	43212	91.8,91.8
90	229.9	967.1	180.1	147.4	41.85	42.63	23.80	1626	80- 90	3418	46631	99.1,99.1
100	51.16	51.34	45.78	48.75	48.18	47.48	38.51	45.04	90-100	116.9	46748	99.3,99.3
110	61.31	60.33	58.70	57.79	58.12	56.89	49.99	53.50	100-110	55.07	46803	99.4,99.4
120	67.20	67.17	64.77	64.14	65.90	63.84	57.33	60.01	110-120	59.96	46863	99.6,99.6
130	67.17	67.22	66.32	65.01	67.95	65.78	60.94	60.85	120-130	57.75	46921	99.7,99.7
140	66.71	67.06	65.41	64.00	67.30	64.84	61.42	59.66	130-140	49.87	46970	99.8,99.8
150	66.29	66.71	65.07	62.61	65.91	63.93	60.54	58.89	140-150	40.05	47011	99.9,99.9
160	65.70	66.83	64.64	61.99	65.26	64.22	60.70	59.38	150-160	29.23	47040	99.9,99.9
170	66.77	68.21	64.71	62.80	66.92	66.90	63.07	62.33	160-170	18.08	47058	100,100
180	67.60	68.27	64.47	63.41	67.60	68.25	64.47	63.40	170-180	6.231	47064	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

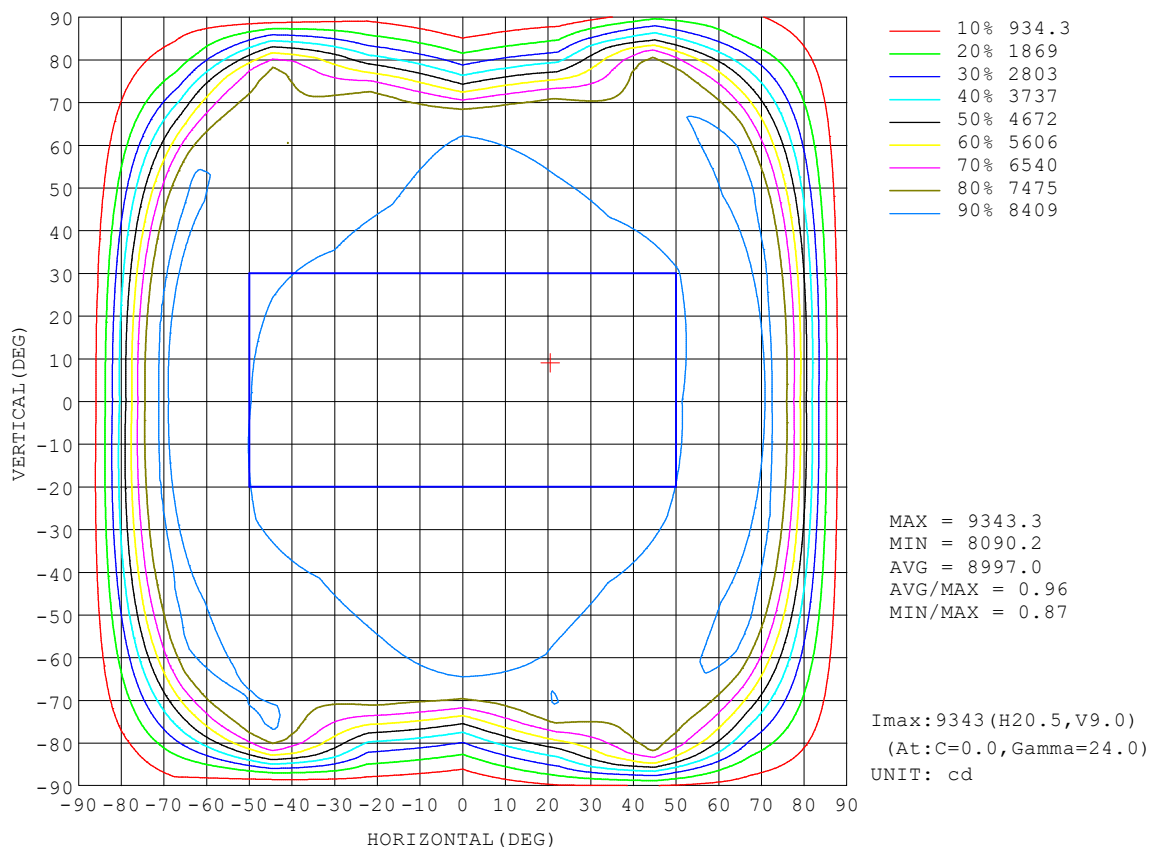
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3℃  
 Operators:DAMIN  
 Test Date:21 June 2025

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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

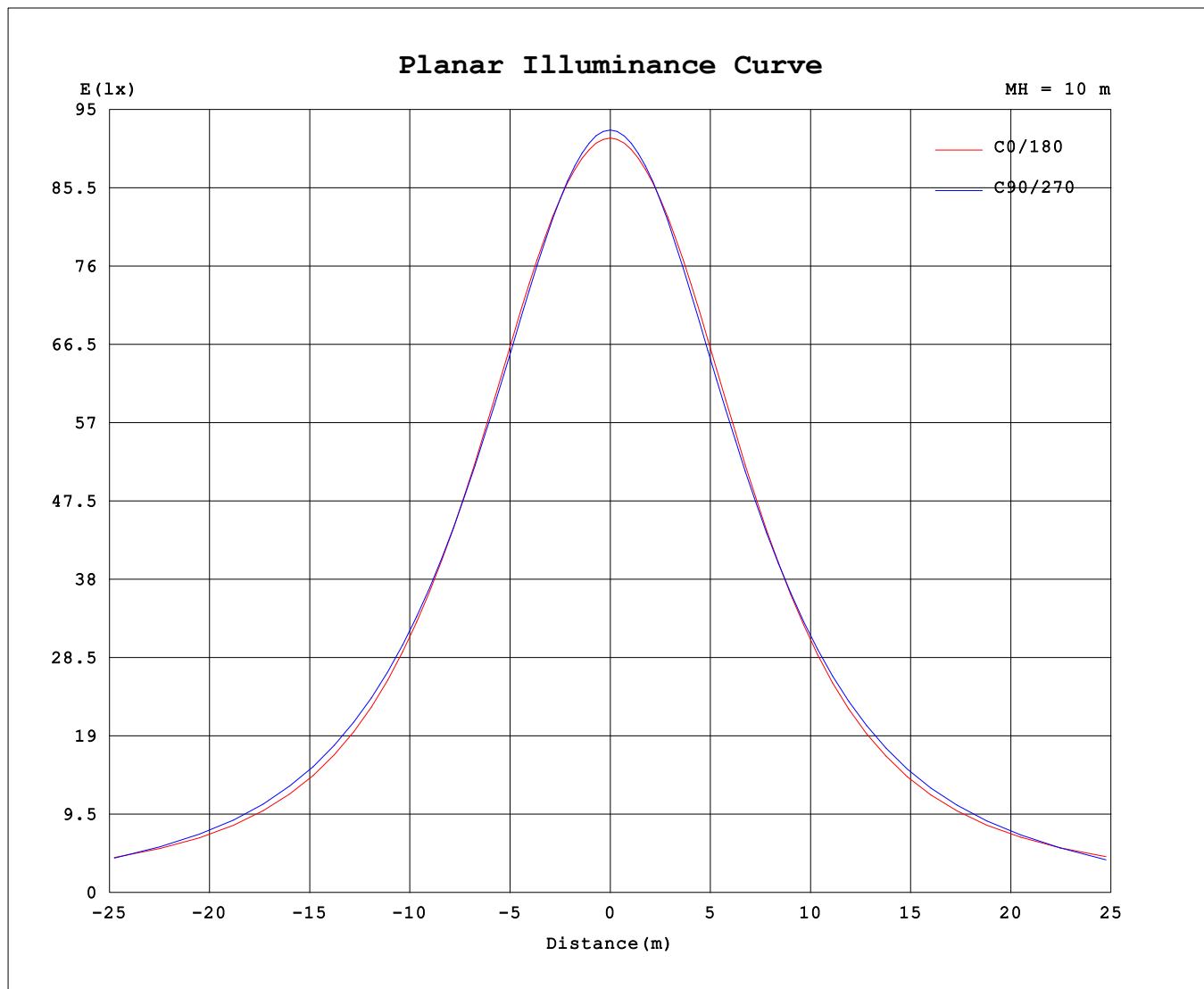
Test:U:119.40V I:2.5040A P:297.05W PF:0.9935 Freq:60.00Hz UTHDi:1.98% ITHDi:8.92% KDisp:0.9979 Lamp Flux:47064.1x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3℃  
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: HIGH

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]

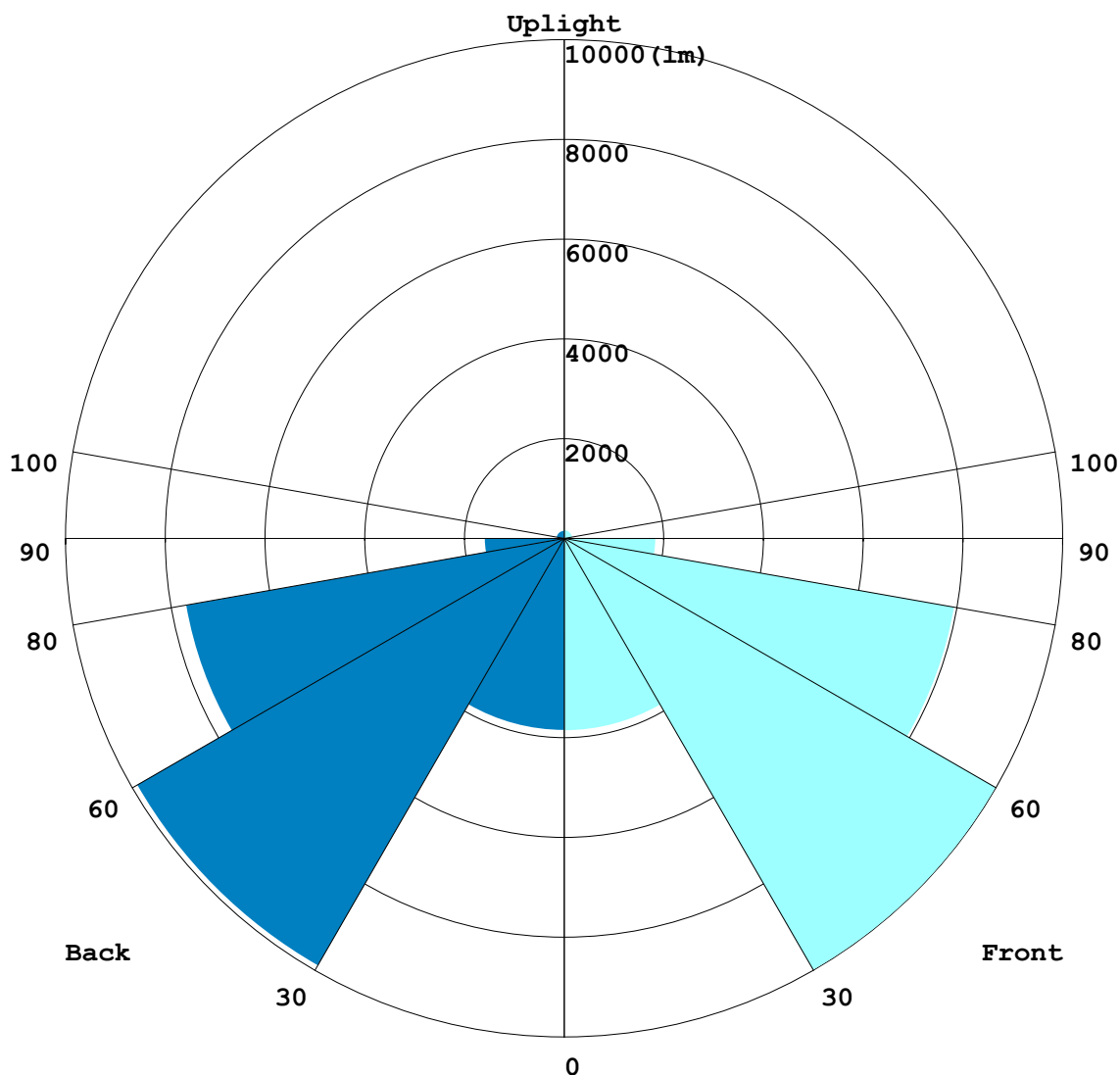
Remarks:

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LCS REPORT

Test:U:119.40V I:2.5040A P:297.05W PF:0.9935 Freq:60.00Hz		
UTHDi:1.98% ITHDi:8.92% KDisp:0.9979 Lamp Flux:47064.1x1 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: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:119.40V I:2.5040A P:297.05W PF:0.9935 Freq:60.00Hz UTHDi:1.98% ITHDi:8.92% KDisp:0.9979 Lamp Flux:47064.1x1 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)	3847.5	8.2
FM - Front-Medium(30-60)	9991.8	21.2
FH - Front-High(60-80)	7943.6	16.9
FVH - Front-Very High(80-90)	1827.4	3.9
Total Forward Light	23837	50.6

BL - Back-Low(0-30)	3843.5	8.2
BM - Back-Medium(30-60)	9888.3	21.0
BH - Back-High(60-80)	7697.8	16.4
BVH - Back-Very High(80-90)	1591	3.4
Total Back Light	23227	49.4

UL - Uplight-Low(90-100)	116.94	0.2
UH - Uplight-High(100-180)	316.23	0.7
Total Up Light	433.18	0.9

BUG(Back,Up,Glare) Rating	B5-U3-G5
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	23021	206.55	23227
Street Side	23610	226.63	23837

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
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:

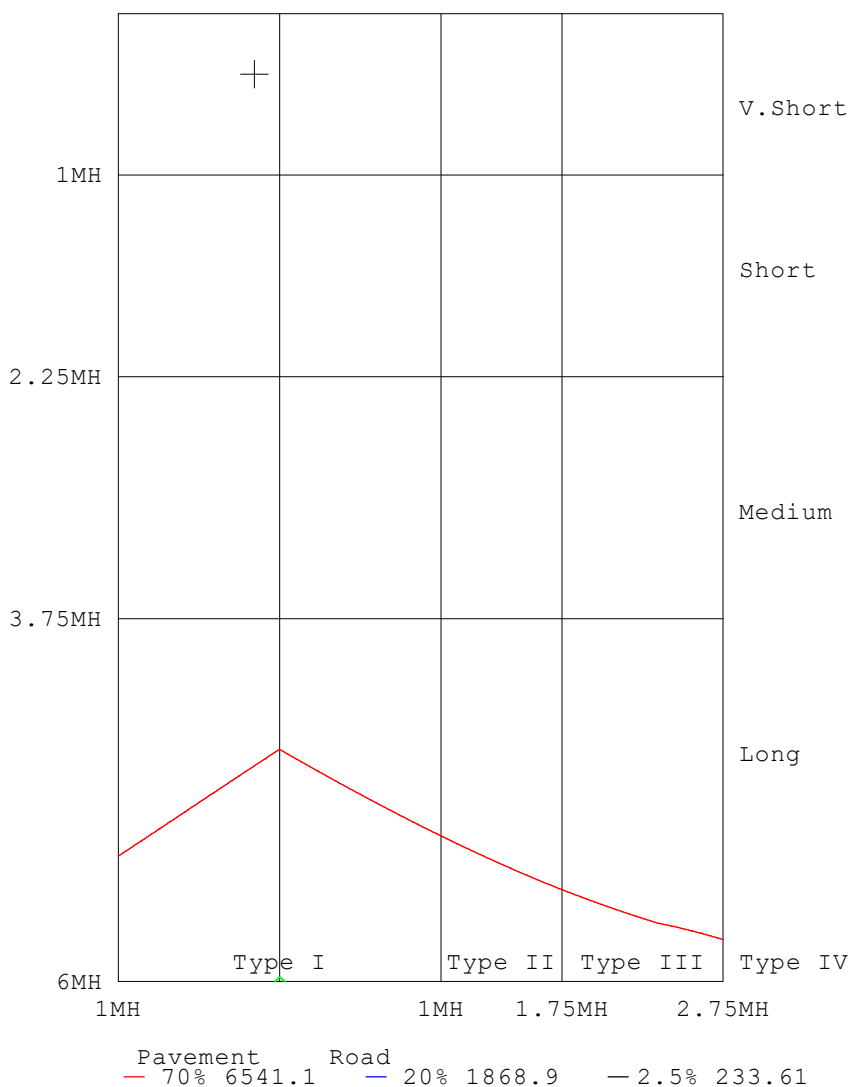


# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ROAD ISOCANDELA REPORT

Test:U:119.40V I:2.5040A P:297.05W PF:0.9935 Freq:60.00Hz		
UTHDi:1.98% ITHDi:8.92% KDisp:0.9979 Lamp Flux:47064.1x1 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: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:119.40V I:2.5040A P:297.05W PF:0.9935 Freq:60.00Hz		
UTHDi:1.98% ITHDi:8.92% KDisp:0.9979 Lamp Flux:47064.1x1 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	9166	9166	9166	9166	9166	9166	9166	9166	9166	9166	9166	9166	9166	9166	9166	9166			
5	9170	9166	9169	9173	9165	9158	9159	9160	9170	9170	9159	9155	9164	9172	9176	9178			
10	9198	9180	9175	9167	9150	9140	9154	9176	9197	9189	9148	9123	9146	9169	9187	9211			
15	9228	9200	9173	9156	9132	9118	9151	9195	9229	9214	9139	9091	9117	9151	9192	9240			
20	9272	9227	9158	9123	9094	9068	9112	9206	9265	9242	9102	9016	9051	9095	9168	9272			
25	9282	9232	9133	9089	9067	9023	9066	9192	9266	9240	9059	8953	9001	9042	9128	9274			
30	9247	9197	9066	9030	9034	8953	8969	9129	9214	9188	8958	8848	8940	8965	9039	9237			
35	9177	9144	9006	8992	9017	8906	8894	9056	9123	9113	8871	8778	8894	8909	8969	9181			
40	9003	9014	8897	8910	8965	8808	8754	8905	8925	8943	8702	8639	8816	8797	8835	9049			
45	8837	8904	8803	8830	8919	8719	8637	8782	8736	8791	8562	8526	8756	8701	8711	8933			
50	8505	8667	8613	8691	8825	8567	8430	8527	8392	8493	8305	8354	8653	8546	8498	8675			
55	8268	8491	8446	8589	8733	8459	8265	8349	8172	8300	8106	8249	8567	8441	8330	8485			
60	7978	8262	8177	8431	8538	8291	8020	8142	7945	8066	7817	8118	8408	8293	8075	8229			
65	7936	8194	8007	8355	8367	8206	7886	8093	8005	8053	7656	8101	8240	8242	7925	8124			
70	8372	8477	7863	8423	7284	8039	7841	8323	8508	8491	7577	8186	6747	8018	7827	8259			
75	8213	8877	7926	8224	5361	6883	8080	8622	7717	8557	7753	7417	4742	6737	7966	8617			
80	5015	7077	8302	5718	2734	3954	8545	7009	3955	5426	8001	4584	2356	3784	8398	7337			
85	2457	4186	7746	3640	1468	2346	6762	4133	1707	2510	5716	2723	1163	2168	7066	4552			
90	230	506	967	884	180	493	147	678	41.8	475	42.6	654	23.8	57.8	1626	1037			
95	41.8	39.4	46.0	43.0	36.0	33.3	42.4	46.9	38.5	44.1	40.7	30.1	28.8	37.0	39.6	36.7			
100	51.2	48.8	51.3	52.1	45.8	42.6	48.8	54.1	48.2	52.7	47.5	38.6	38.5	45.5	45.0	42.2			
105	56.1	53.3	55.2	56.4	51.8	47.7	52.3	57.3	52.8	56.4	51.3	42.9	43.9	49.7	48.4	45.2			
110	61.3	58.4	60.3	61.9	58.7	53.8	57.8	62.1	58.1	61.6	56.9	48.8	50.0	54.9	53.5	49.4			
115	64.2	61.8	64.2	65.2	61.8	57.5	61.3	64.9	61.4	64.6	60.2	52.2	53.3	57.7	56.6	52.5			
120	67.2	66.2	67.2	67.4	64.8	62.0	64.1	65.3	65.9	68.0	63.8	57.3	57.3	61.3	60.0	57.2			
125	67.8	67.6	67.5	67.1	66.1	64.1	65.0	64.6	67.5	68.2	65.1	59.7	59.3	61.9	60.8	59.2			
130	67.2	67.6	67.2	66.3	66.3	65.2	65.0	63.7	67.9	67.1	65.8	61.9	60.9	61.1	60.8	60.2			
135	66.8	67.2	67.2	66.0	65.8	65.0	64.8	63.3	67.7	66.6	65.6	62.6	61.4	60.4	60.5	60.2			
140	66.7	67.0	67.1	66.2	65.4	64.8	64.0	62.8	67.3	66.2	64.8	62.8	61.4	59.9	59.7	59.7			
145	66.6	67.0	66.9	66.2	65.5	64.8	63.4	62.4	66.9	66.0	64.3	62.4	61.1	59.7	59.2	59.3			
150	66.3	66.5	66.7	66.3	65.1	64.1	62.6	61.7	65.9	65.4	63.9	61.7	60.5	59.2	58.9	58.6			
155	65.9	66.3	66.7	66.2	64.8	63.7	62.3	61.5	65.3	65.1	63.9	61.5	60.3	59.0	58.9	58.5			
160	65.7	66.3	66.8	66.3	64.6	63.4	62.0	61.2	65.3	65.2	64.2	61.8	60.7	59.3	59.4	58.9			
165	65.9	66.6	67.2	66.6	64.8	63.4	62.0	61.4	65.7	65.9	64.9	62.5	61.4	60.2	60.3	59.7			
170	66.8	67.9	68.2	66.5	64.7	63.4	62.8	62.4	66.9	67.3	66.9	64.5	63.1	62.0	62.3	61.7			
175	67.5	68.4	68.4	66.4	64.8	63.5	63.3	62.9	67.6	68.1	67.8	65.4	64.0	63.0	63.1	62.7			
180	67.6	68.4	68.3	66.0	64.5	63.4	63.4	63.0	67.6	68.4	68.3	66.0	64.5	63.4	63.4	63.0			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: HIGH

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: