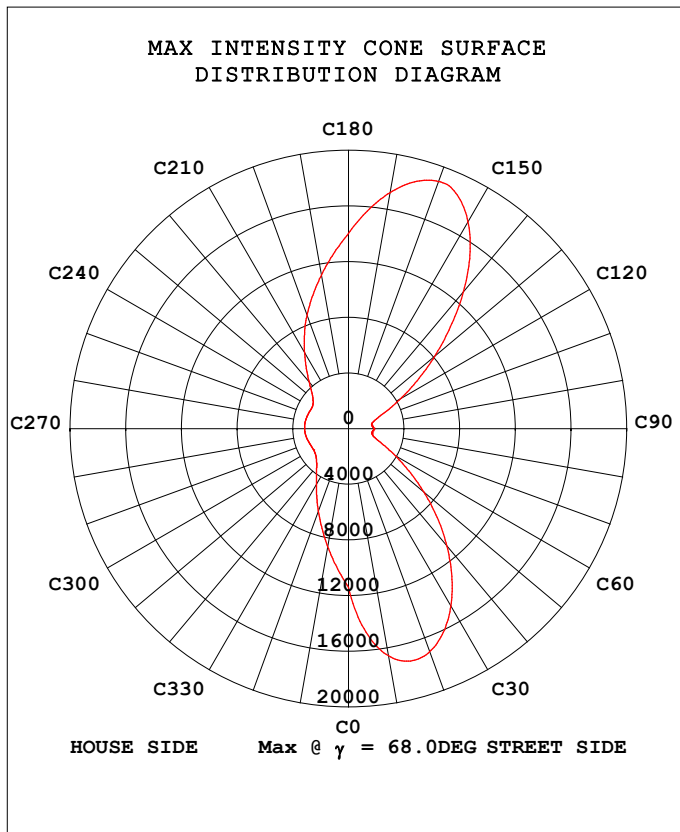
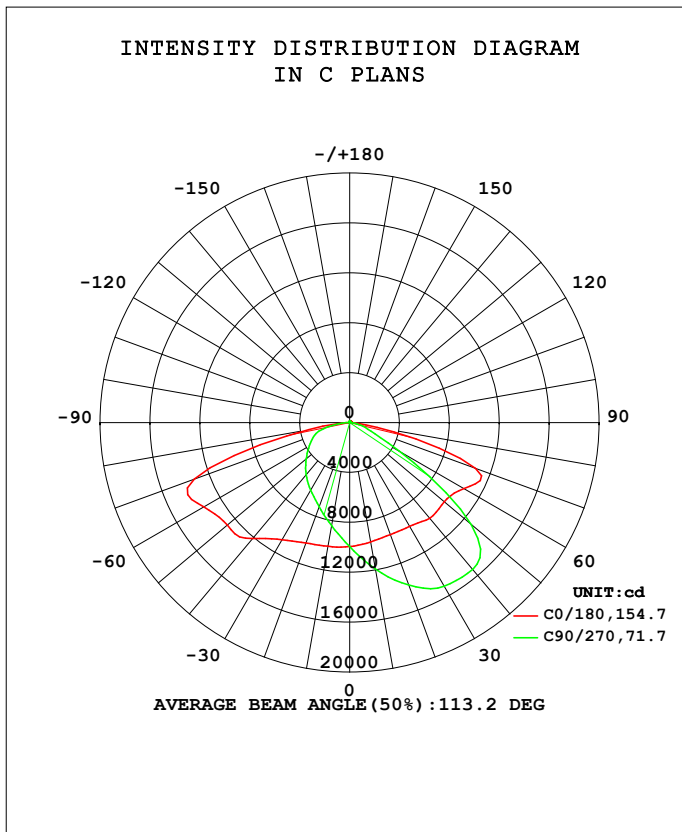


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:277.07V I:1.0948A P:300.41W PF:0.9904 Freq:50.00Hz		
UTHDi:1.38% ITHDi:3.07% KDisp:0.9980 Lamp Flux:46806.2x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.81 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-HV-XX	Imax (cd)	18903	η street_up (%)	0.3
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	63.8
RATED VOLTAGE (V)	277	TOTAL FLUX (lm)	46806	η house_up (%)	0.4
NOMINAL FLUX (lm)	46806.2	MAXIMUM @ (C, γ)	158,68.0	η house_down (%)	35.4
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	277	η down (%)	99.2	SLI	24.635



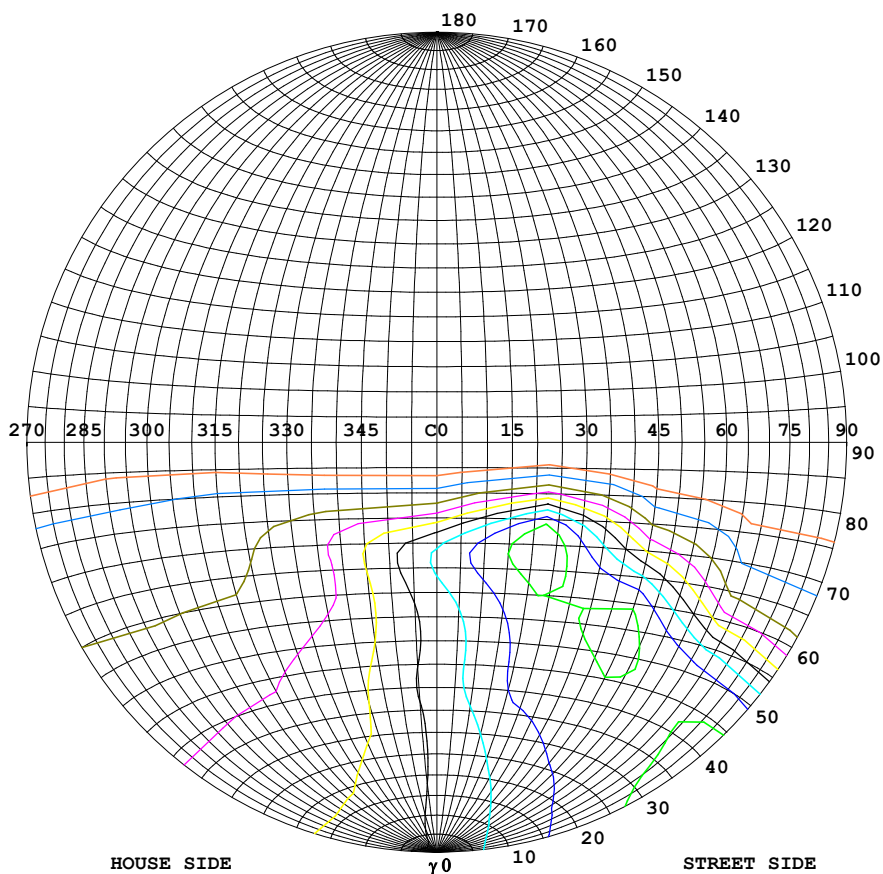
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:277.07V I:1.0948A P:300.41W PF:0.9904 Freq:50.00Hz UTHDi:1.38% ITHDi:3.07% KDisp:0.9980 Lamp Flux:46806.2x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type III - Medium
CIE:Average - Intermediate
IES:Semi cut-off
CIE:Non-cut-off
Max.At80:175.4cd/klm
Max.At90:1.718cd/klm
Max.80-90:175.4cd/klm

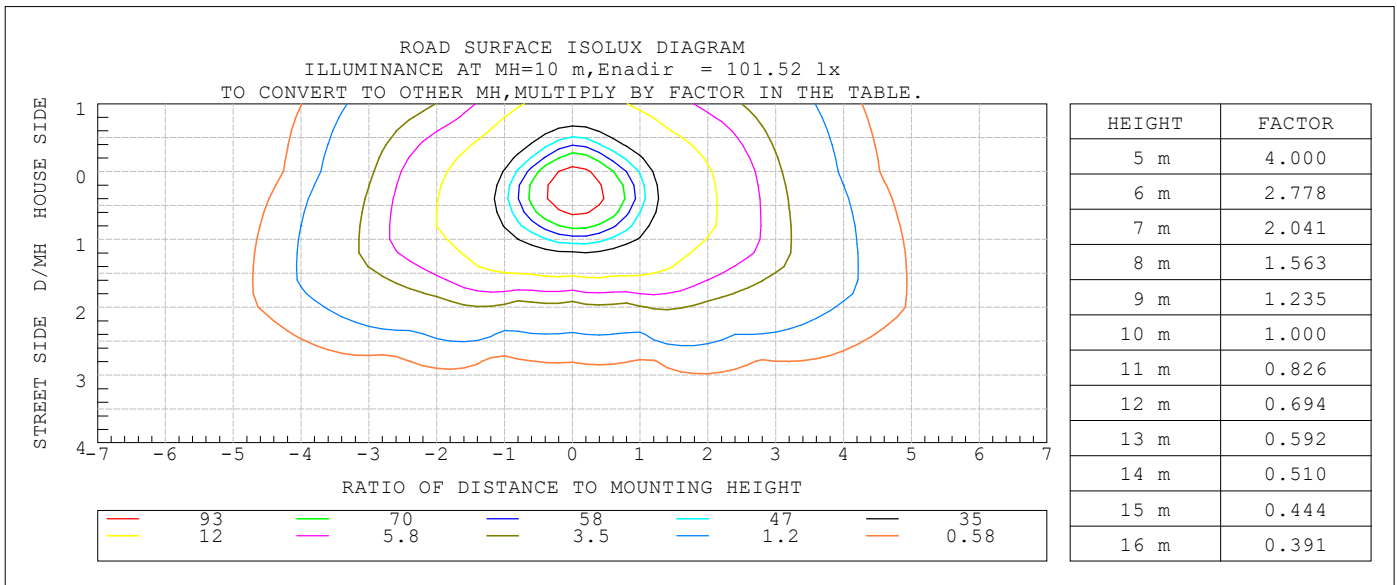
ISOCANDELA DIAGRAM		
UNIT		cd
I _{max} =100%		18903
90%		17013
80%		15123
70%		13232
60%		11342
50%		9452
40%		7561
30%		5671
20%		3781
10%		1890
5%		945

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
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=1.0000]
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: 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=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:277.07V I:1.0948A P:300.41W PF:0.9904 Freq:50.00Hz		
UTHDi:1.38% ITHDi:3.07% KDisp:0.9980 Lamp Flux:46806.2x1 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	971.8	1112	1192	1148	1008	887.0	839.5	867.5	0- 10	953.7	953.7	2.04,2.04
20	955.4	1232	1385	1326	1028	790.7	718.0	762.1	10- 20	2875	3828	8.18,8.18
30	961.5	1366	1516	1540	1085	708.9	626.5	678.8	20- 30	4828	8656	18.5,18.5
40	1001	1464	1536	1737	1213	632.7	544.4	600.3	30- 40	6777	15433	33,33
50	989.9	1545	1273	1811	1280	560.1	456.2	509.8	40- 50	8400	23833	50.9,50.9
60	1058	1463	461.2	1657	1353	450.1	373.5	405.3	50- 60	8706	32539	69.5,69.5
70	1073	730.6	157.6	852.3	1325	359.5	302.5	308.2	60- 70	7784	40323	86.1,86.1
80	226.1	123.3	59.37	156.1	333.6	260.0	142.4	205.5	70- 80	5126	45449	97.1,97.1
90	3.553	1.894	1.091	8.039	2.299	0.6032	0.4681	2.207	80- 90	986.5	46436	99.2,99.2
100	6.620	2.981	1.644	1.620	4.499	1.600	1.031	5.052	90-100	24.65	46460	99.3,99.3
110	9.042	4.365	2.392	2.330	6.556	3.285	2.751	7.291	100-110	39.37	46500	99.3,99.3
120	11.42	5.900	3.250	3.139	8.652	5.126	5.212	9.450	110-120	53.09	46553	99.5,99.5
130	12.73	7.059	3.949	3.747	10.20	7.140	7.504	11.07	120-130	62.06	46615	99.6,99.6
140	12.53	7.712	4.621	4.287	10.80	8.947	9.692	11.04	130-140	61.85	46677	99.7,99.7
150	11.94	8.400	5.477	4.833	10.54	10.34	10.83	10.00	140-150	53.75	46730	99.8,99.8
160	11.47	9.236	6.454	5.485	10.53	11.16	11.04	9.079	150-160	41.01	46771	99.9,99.9
170	11.25	10.16	7.676	6.316	10.81	11.40	10.48	8.345	160-170	25.89	46797	100,100
180	11.05	10.94	9.093	7.258	11.05	10.94	9.112	7.269	170-180	8.884	46806	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

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%

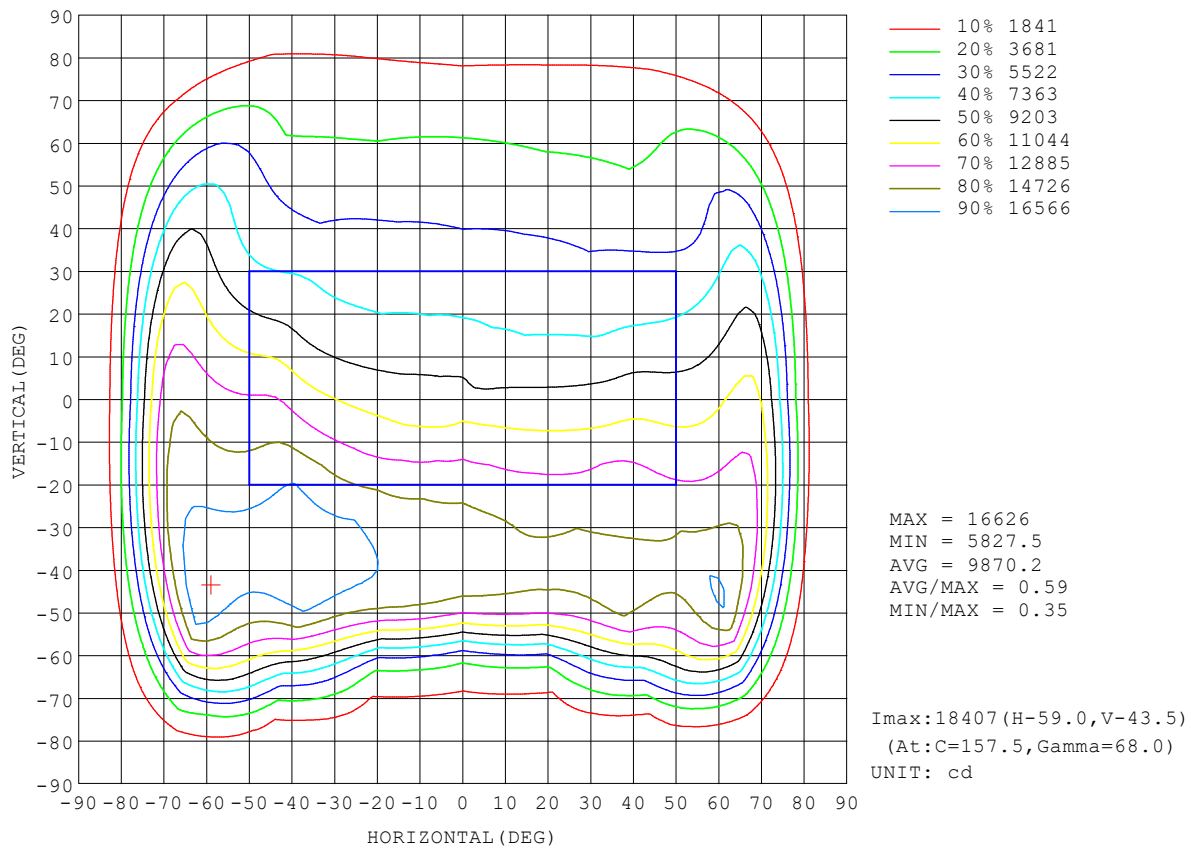
Test Distance:6.895m [K=1.0000]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

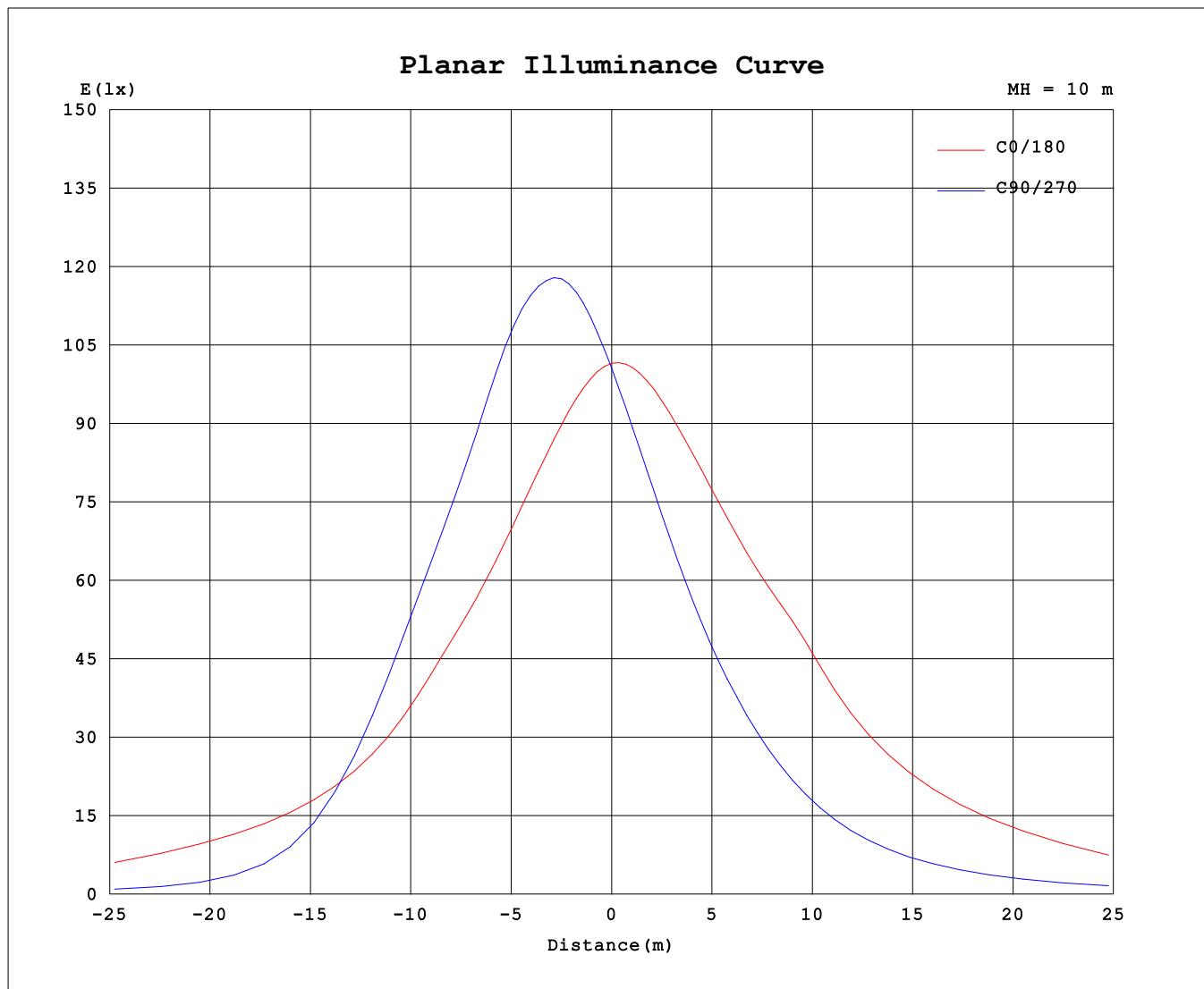
Test:U:277.07V I:1.0948A P:300.41W PF:0.9904 Freq:50.00Hz UTHDi:1.38% ITHDi:3.07% KDisp:0.9980 Lamp Flux:46806.2x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25.3℃
Operators:DAMIN
Test Date: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=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

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=1.0000]

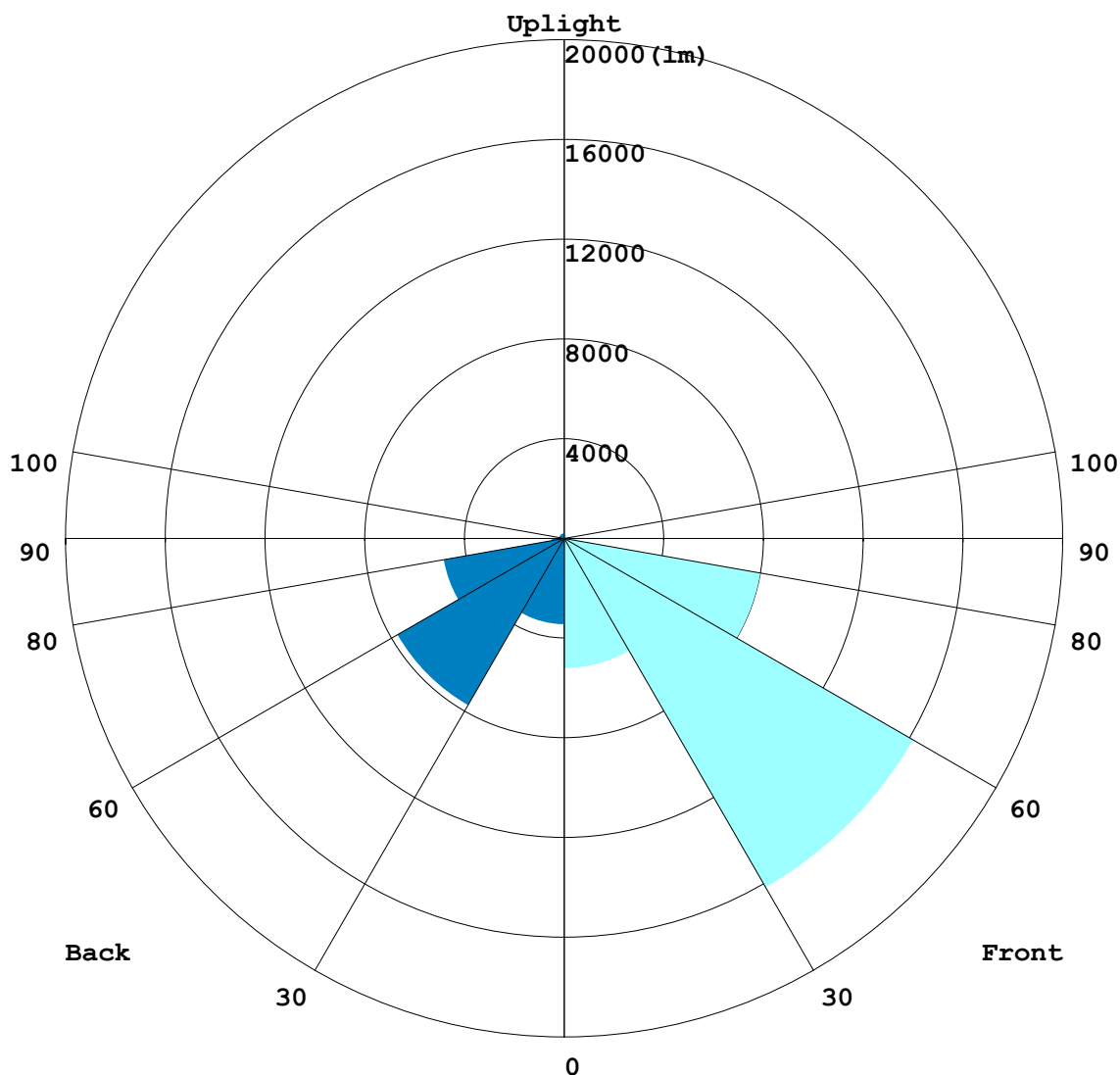
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:277.07V I:1.0948A P:300.41W PF:0.9904 Freq:50.00Hz		
UTHDi:1.38% ITHDi:3.07% KDisp:0.9980 Lamp Flux:46806.2x1 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: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=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:277.07V I:1.0948A P:300.41W PF:0.9904 Freq:50.00Hz UTHDi:1.38% ITHDi:3.07% KDisp:0.9980 Lamp Flux:46806.2x1 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)	5213.7	11.1
FM - Front-Medium(30-60)	16161	34.5
FH - Front-High(60-80)	8005.6	17.1
FVH - Front-Very High(80-90)	480.21	1.0
Total Forward Light	30023	64.1

BL - Back-Low(0-30)	3442.3	7.4
BM - Back-Medium(30-60)	7722.3	16.5
BH - Back-High(60-80)	4904.1	10.5
BVH - Back-Very High(80-90)	506.3	1.1
Total Back Light	16783	35.9

UL - Uplight-Low(90-100)	24.649	0.1
UH - Uplight-High(100-180)	345.9	0.7
Total Up Light	370.55	0.8

BUG(Back,Up,Glare) Rating	B4-U3-G4
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	16575	208.34	16783
Street Side	29861	162.21	30023

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

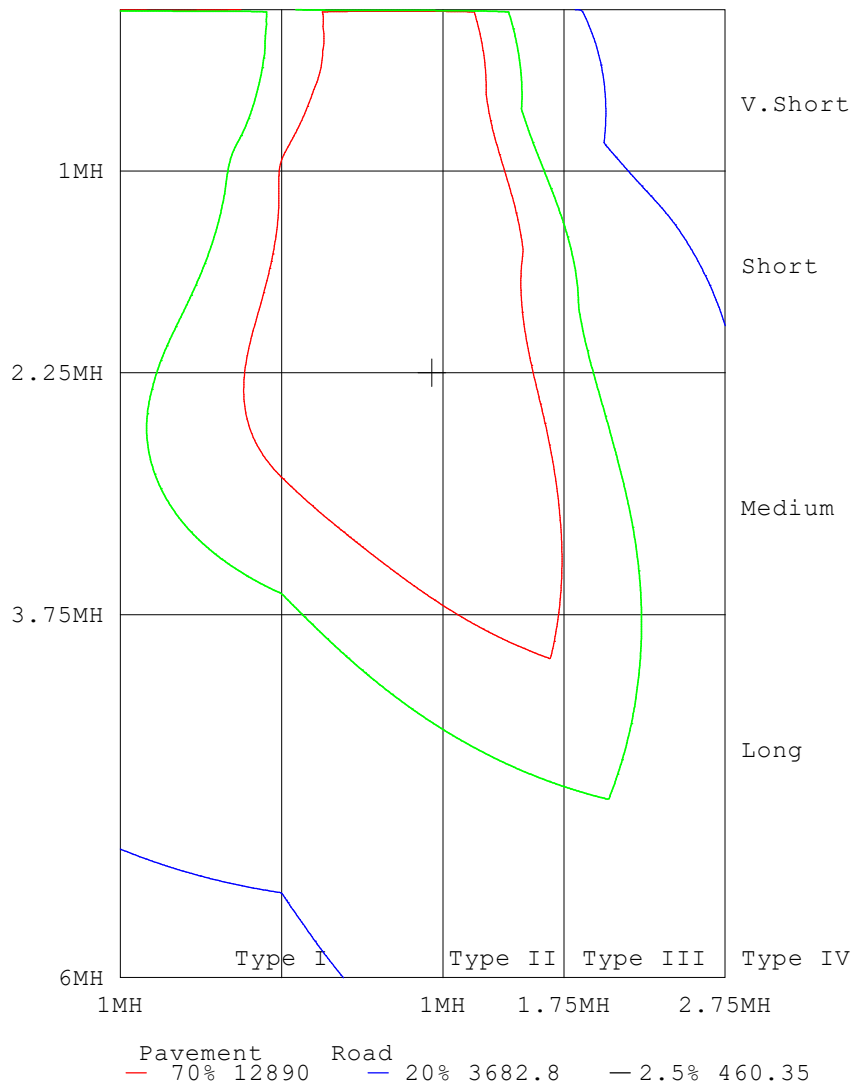
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:277.07V I:1.0948A P:300.41W PF:0.9904 Freq:50.00Hz		
UTHDi:1.38% ITHDi:3.07% KDisp:0.9980 Lamp Flux:46806.2x1 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°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=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:277.07V I:1.0948A P:300.41W PF:0.9904 Freq:50.00Hz		
UTHDi:1.38% ITHDi:3.07% KDisp:0.9980 Lamp Flux:46806.2x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: X10cd

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	995	995	995	995	995	995	995	995	995	995	995	995	995	995	995	995			
5	986	1015	1041	1060	1070	1068	1052	1029	1001	973	950	935	927	929	941	961			
10	972	1044	1112	1165	1192	1189	1148	1082	1008	938	887	855	839	843	867	911			
15	963	1065	1160	1234	1274	1272	1216	1121	1013	915	847	806	788	792	822	880			
20	955	1103	1232	1329	1385	1392	1326	1193	1028	884	791	740	718	724	762	838			
25	955	1135	1281	1387	1453	1469	1404	1253	1045	865	756	701	678	685	726	813			
30	962	1196	1366	1451	1516	1573	1540	1365	1085	842	709	652	626	638	679	779			
35	973	1250	1418	1465	1528	1610	1638	1458	1123	831	678	623	594	610	648	758			
40	1001	1343	1464	1480	1536	1639	1737	1632	1213	831	633	579	544	566	600	731			
45	1000	1369	1490	1484	1504	1644	1767	1713	1273	838	606	545	509	531	569	702			
50	990	1388	1545	1384	1273	1534	1811	1722	1280	793	560	487	456	470	510	646			
55	999	1417	1573	1165	957	1298	1819	1739	1293	767	514	449	422	430	468	614			
60	1058	1498	1463	665	461	759	1657	1803	1353	765	450	388	374	372	405	579			
65	1123	1582	1227	385	275	441	1383	1858	1410	793	411	347	343	334	364	573			
70	1073	1676	731	183	158	209	852	1875	1325	795	360	291	303	283	308	586			
75	749	1500	429	121	111	133	513	1686	965	650	328	256	259	249	274	501			
80	226	609	123	63.0	59.4	69.5	156	821	334	297	260	193	142	173	205	231			
85	76.8	155	42.9	32.4	30.4	38.2	62.5	301	103	117	170	128	64.6	99.4	110	83.3			
90	3.55	2.62	1.89	1.35	1.09	2.35	8.04	2.59	2.30	1.70	0.60	0.51	0.47	0.91	2.21	2.21			
95	4.72	3.42	2.20	1.46	1.22	1.17	1.26	1.52	2.90	2.51	0.88	0.58	0.61	1.36	3.33	3.28			
100	6.62	4.84	2.98	1.94	1.64	1.55	1.62	1.99	4.50	3.86	1.60	0.90	1.03	2.59	5.05	4.72			
105	7.69	5.67	3.50	2.27	1.92	1.80	1.88	2.24	5.41	4.58	2.23	1.31	1.54	3.68	6.01	5.34			
110	9.04	6.82	4.37	2.87	2.39	2.25	2.33	2.67	6.56	5.61	3.28	2.25	2.75	5.41	7.29	6.14			
115	9.97	7.59	4.99	3.29	2.73	2.58	2.66	3.00	7.34	6.41	4.01	3.07	3.74	6.52	8.14	6.83			
120	11.4	8.80	5.90	3.91	3.25	3.07	3.14	3.50	8.65	7.64	5.13	4.36	5.21	7.93	9.45	7.82			
125	12.2	9.53	6.44	4.25	3.56	3.37	3.40	3.77	9.42	8.40	5.93	5.21	6.13	8.74	10.3	8.29			
130	12.7	10.3	7.06	4.71	3.95	3.76	3.75	4.07	10.2	9.41	7.14	6.55	7.50	9.87	11.1	8.65			
135	12.8	10.5	7.37	5.02	4.19	3.99	3.97	4.25	10.6	9.96	7.90	7.43	8.44	10.5	11.3	8.69			
140	12.5	10.5	7.71	5.56	4.62	4.34	4.29	4.54	10.8	10.6	8.95	8.66	9.69	11.1	11.0	8.54			
145	12.3	10.5	7.96	5.94	4.96	4.61	4.50	4.70	10.7	10.8	9.56	9.33	10.3	11.2	10.6	8.22			
150	11.9	10.5	8.40	6.53	5.48	5.00	4.83	4.94	10.5	11.0	10.3	10.2	10.8	11.1	10.00	7.68			
155	11.7	10.6	8.72	6.94	5.84	5.29	5.07	5.10	10.5	11.0	10.7	10.6	11.0	10.9	9.60	7.44			
160	11.5	10.7	9.24	7.63	6.45	5.81	5.48	5.37	10.5	11.2	11.2	11.0	11.0	10.5	9.08	7.20			
165	11.3	10.8	9.60	8.15	6.93	6.21	5.78	5.59	10.6	11.2	11.3	11.1	10.9	10.1	8.78	7.08			
170	11.2	11.0	10.2	8.88	7.68	6.85	6.32	5.96	10.8	11.3	11.4	11.0	10.5	9.55	8.34	6.98			
175	11.2	11.1	10.5	9.37	8.24	7.34	6.69	6.21	10.9	11.3	11.3	10.7	9.97	9.01	7.91	6.81			
180	11.0	11.2	10.9	10.1	9.09	8.13	7.26	6.50	11.0	11.2	10.9	10.1	9.11	8.15	7.27	6.51			

C Range: 0 - 360DEG

C Interval: 22.5DEG

Test Speed: MEDIUM

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=1.0000]

Remarks: