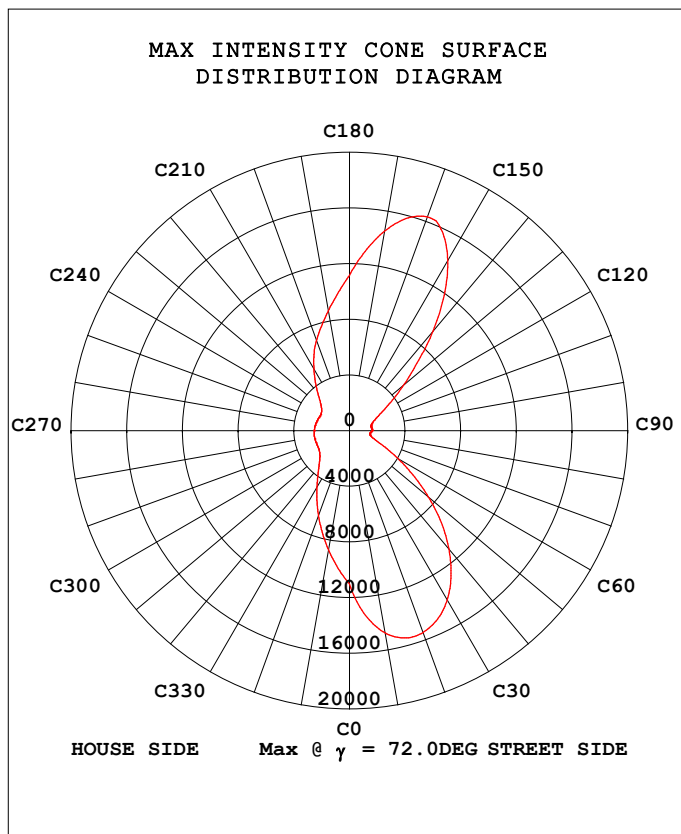
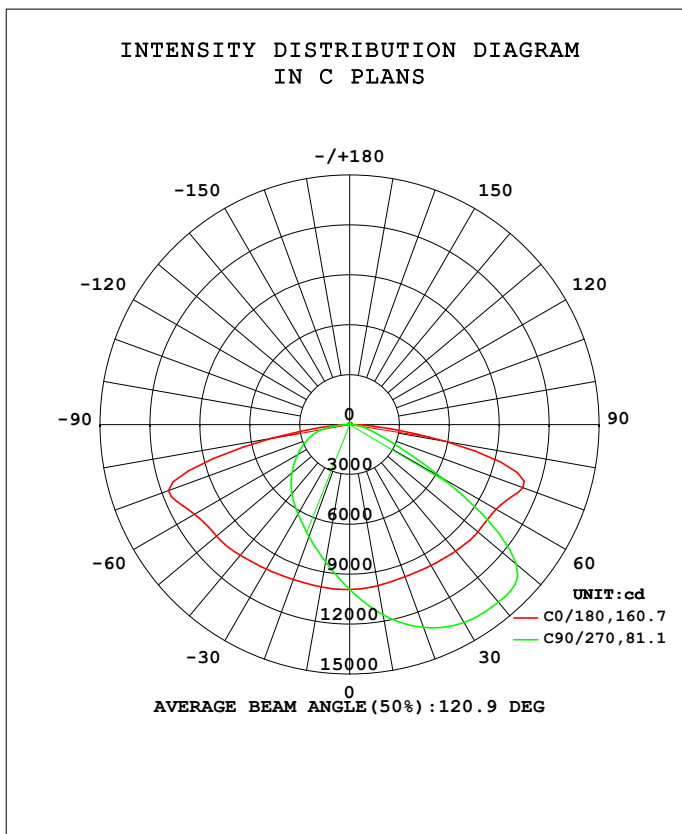


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.52V I:2.6012A P:308.92W PF:0.9937 Freq:60.00Hz		
UTHDi:2.02% ITHDi:8.56% KDisp:0.9980 Lamp Flux:45833.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 148.37 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-300W-BR-PS-XX	Imax (cd)	16311	η street_up (%)	0.4
NOMINAL POWER (W)	300	LOR (%)	100.0	η street_down (%)	64.1
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	45834	η house_up (%)	0.5
NOMINAL FLUX (lm)	45833.5	MAXIMUM @ (C, γ)	158,72.0	η house_down (%)	35.1
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.2	SLI	25.781



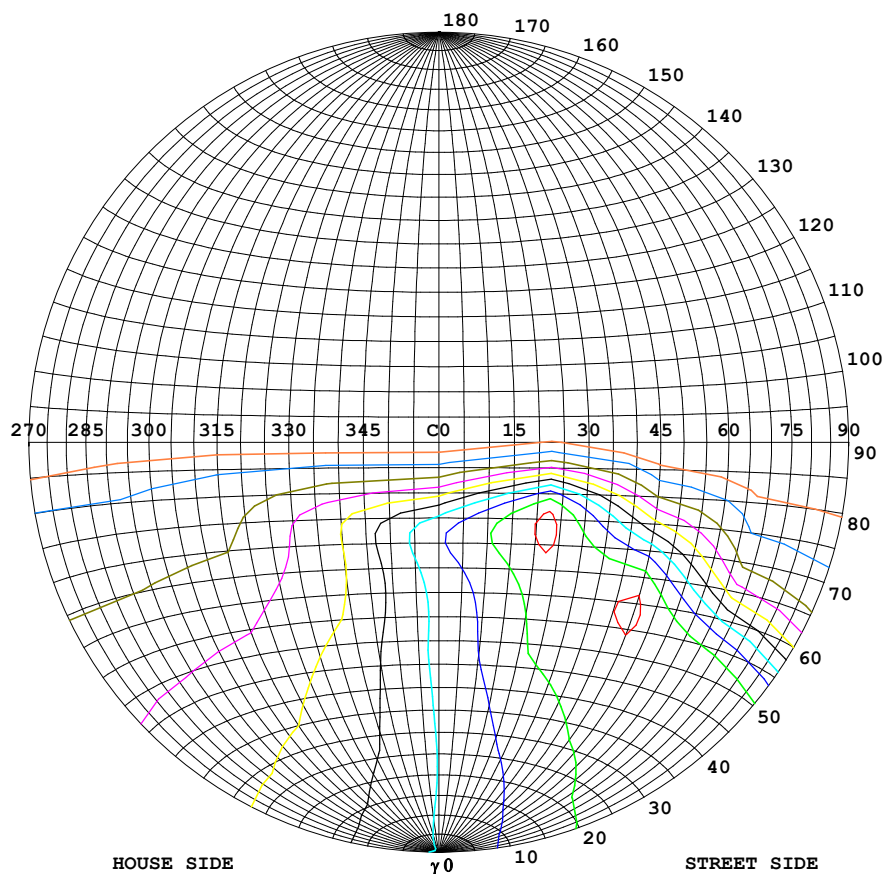
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 21 June 2025

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=1.0152]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.52V I:2.6012A P:308.92W PF:0.9937 Freq:60.00Hz UTHDi:2.02% ITHDi:8.56% KDisp:0.9980 Lamp Flux:45833.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type III - Medium
 CIE:Broad - Long
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:266.7cd/klm
 Max.At90:19.32cd/klm
 Max.80-90:266.7cd/klm

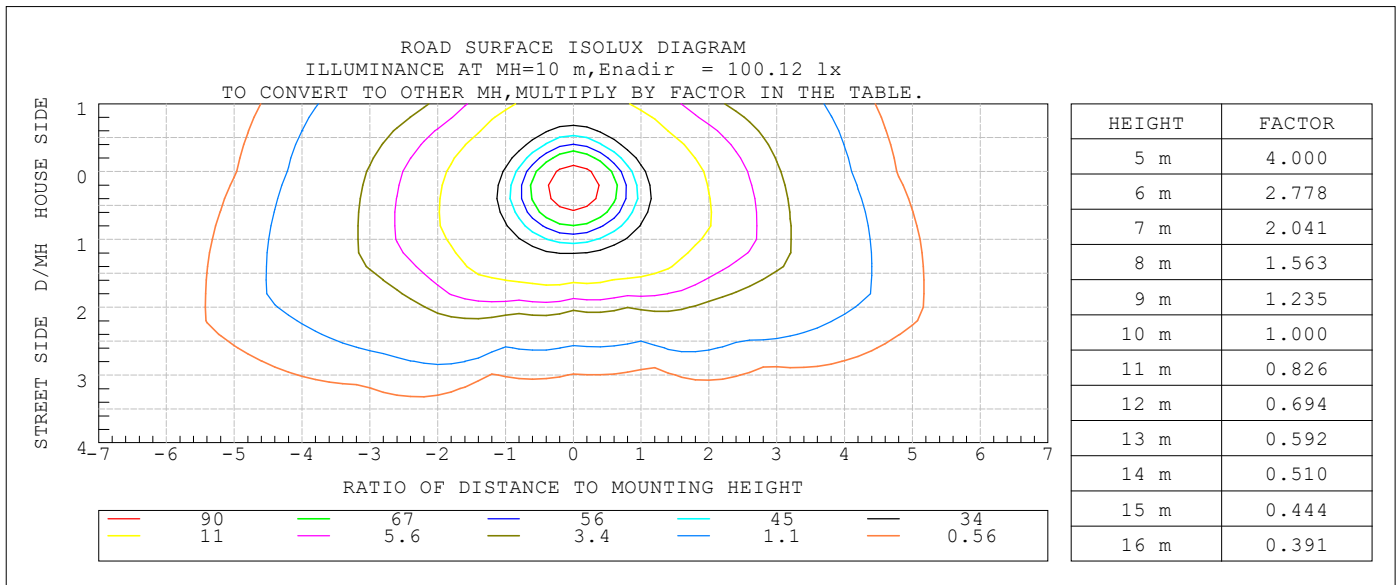
ISOCANDELA DIAGRAM		
UNIT		cd
I _{max} =100%		16311
90%		14680
80%		13049
70%		11418
60%		9787
50%		8155
40%		6524
30%		4893
20%		3262
10%		1631
5%		816

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=1.0152]
 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=1.0152]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:119.52V I:2.6012A P:308.92W PF:0.9937 Freq:60.00Hz		
UTHDi:2.02% ITHDi:8.56% KDisp:0.9980 Lamp Flux:45833.5x1 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	982.8	1107	1160	1110	991.6	879.5	839.0	877.1	0- 10	947.6	947.6	2.07,2.07
20	973.5	1212	1297	1218	991.4	779.2	716.8	775.7	10- 20	2820	3768	8.22,8.22
30	978.1	1299	1374	1306	1003	694.2	622.0	692.2	20- 30	4613	8381	18.3,18.3
40	991.7	1379	1392	1381	1024	613.5	542.1	617.1	30- 40	6257	14638	31.9,31.9
50	1006	1442	1310	1447	1044	524.2	453.3	532.7	40- 50	7649	22287	48.6,48.6
60	1018	1502	641.6	1409	1077	421.6	361.4	432.4	50- 60	8236	30523	66.6,66.6
70	1108	1083	197.7	830.7	1160	318.0	271.4	325.0	60- 70	7461	37984	82.9,82.9
80	584.8	328.5	75.60	192.3	473.1	212.9	161.9	220.0	70- 80	5739	43723	95.4,95.4
90	20.52	13.04	8.789	10.54	5.337	1.914	0.8142	38.91	80- 90	1726	45449	99.2,99.2
100	7.402	3.421	1.969	2.178	6.963	3.490	1.855	6.133	90-100	51.09	45500	99.3,99.3
110	9.139	4.558	2.709	2.871	8.662	5.395	4.000	7.941	100-110	49.81	45550	99.4,99.4
120	10.21	5.530	3.390	3.448	9.881	6.777	6.048	8.932	110-120	59.28	45609	99.5,99.5
130	10.03	6.044	3.937	3.883	10.08	8.157	7.366	9.208	120-130	61.09	45670	99.6,99.6
140	9.534	6.486	4.463	4.247	9.652	9.080	8.445	8.449	130-140	55.65	45726	99.8,99.8
150	9.172	6.967	5.045	4.567	9.194	9.326	8.742	7.471	140-150	45.99	45772	99.9,99.9
160	8.933	7.519	5.704	4.946	8.927	9.186	8.378	6.776	150-160	33.81	45805	99.9,99.9
170	8.955	8.197	6.484	5.462	8.984	9.132	7.978	6.499	160-170	20.90	45826	100,100
180	9.014	8.769	7.292	6.022	9.020	8.776	7.306	6.029	170-180	7.187	45834	100,100
DEG	LUMINOUS INTENSITY:X10cd									UNIT:lm		

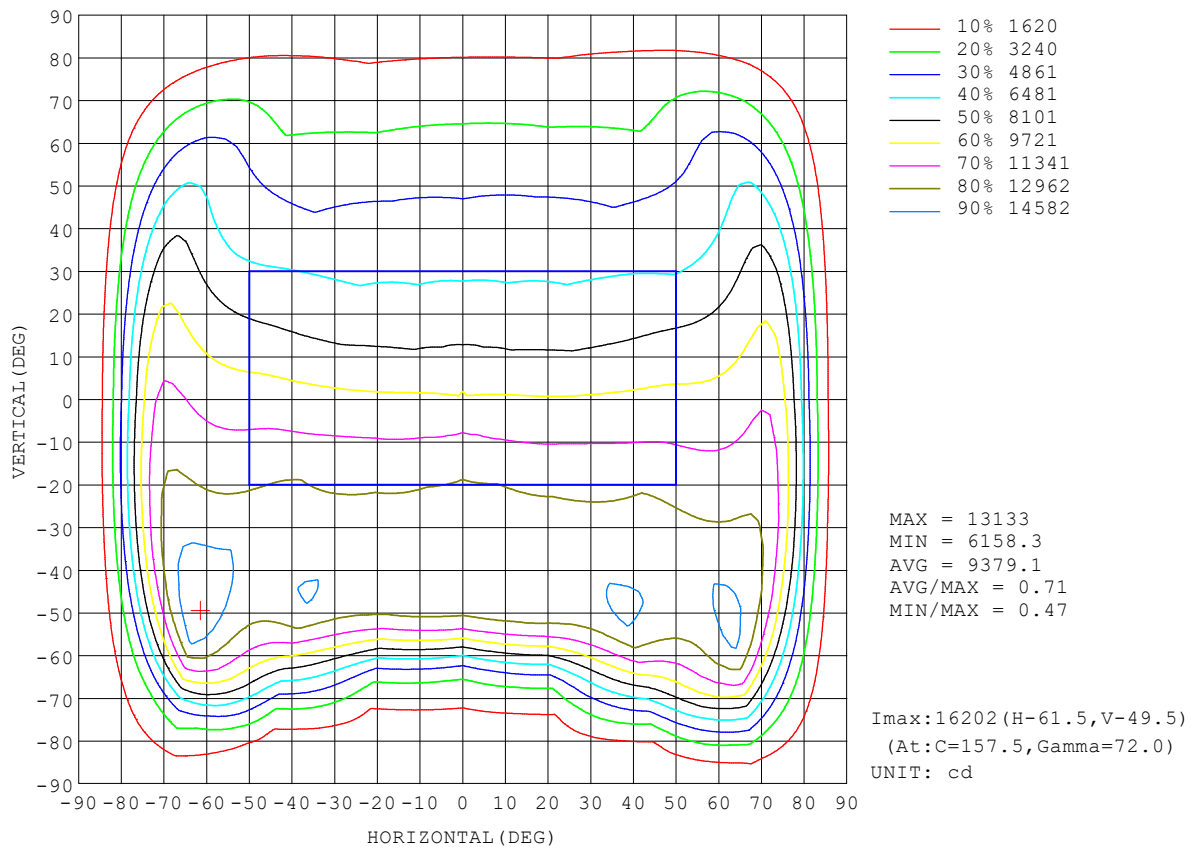
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3℃
 Operators:DAMIN
 Test Date:21 June 2025

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=1.0152]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

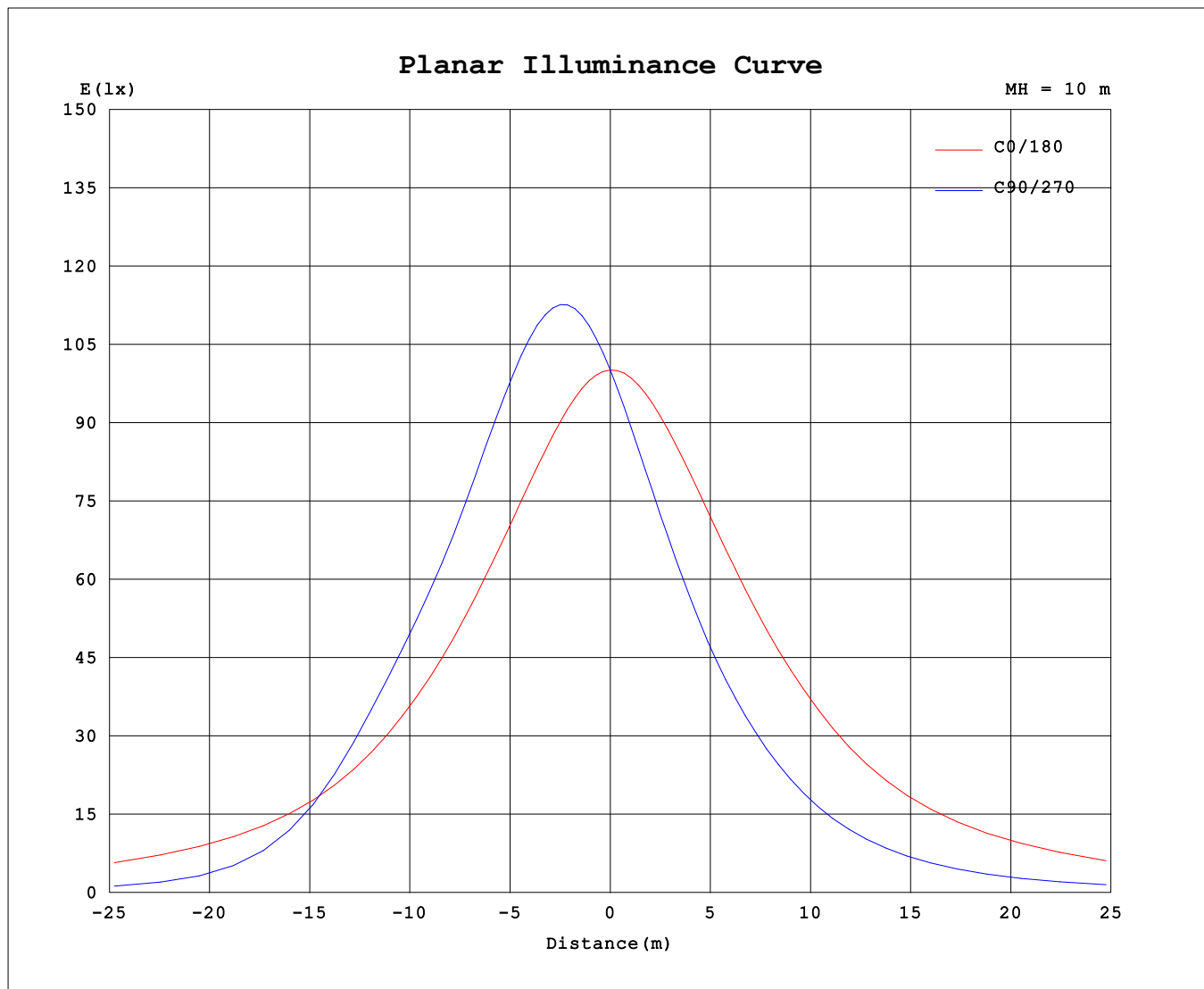
Test:U:119.52V I:2.6012A P:308.92W PF:0.9937 Freq:60.00Hz UTHDi:2.02% ITHDi:8.56% KDisp:0.9980 Lamp Flux:45833.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
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=1.0152]
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=1.0152]

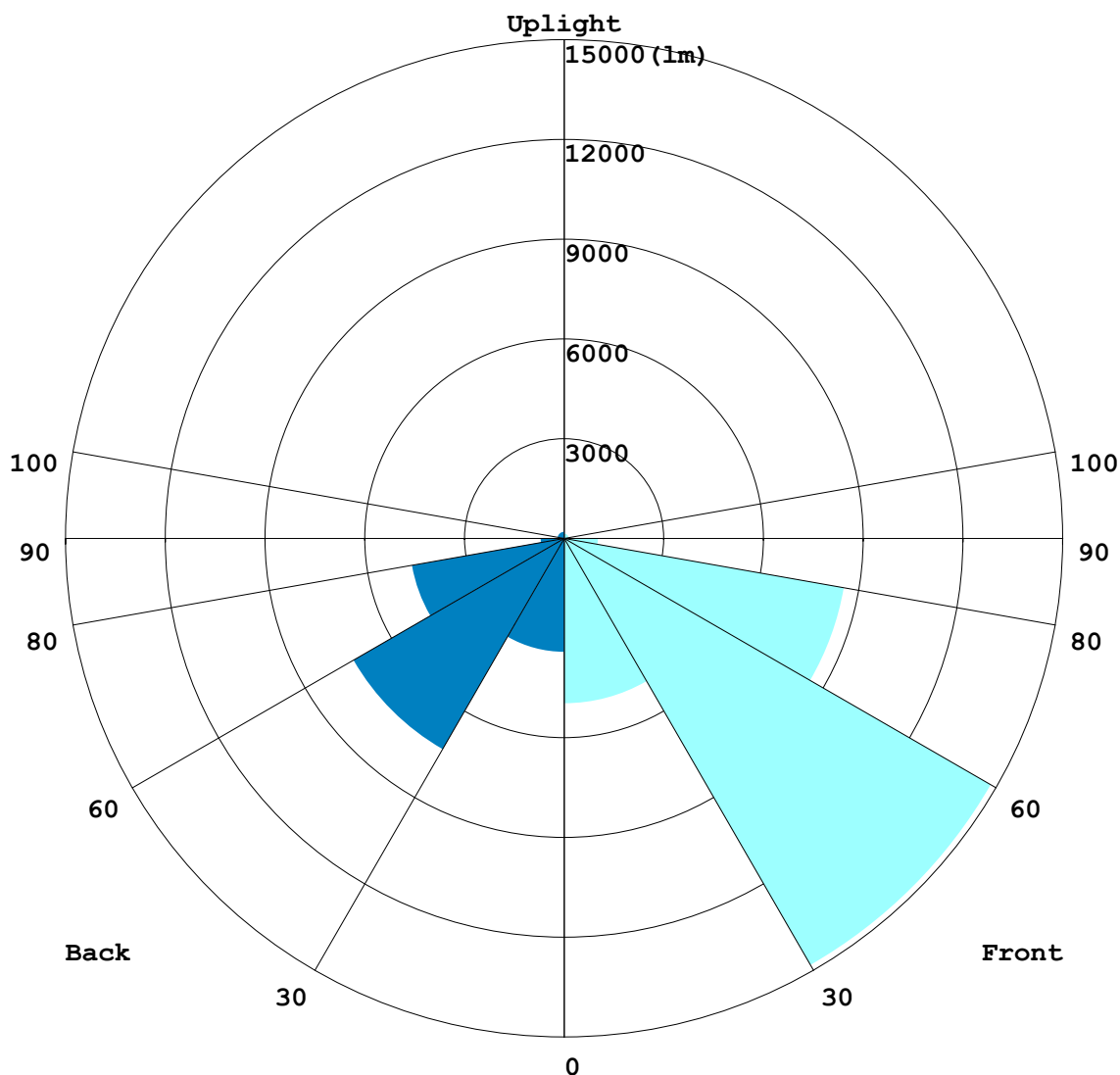
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:119.52V I:2.6012A P:308.92W PF:0.9937 Freq:60.00Hz		
UTHDi:2.02% ITHDi:8.56% KDisp:0.9980 Lamp Flux:45833.5x1 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: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=1.0152]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:119.52V I:2.6012A P:308.92W PF:0.9937 Freq:60.00Hz UTHDi:2.02% ITHDi:8.56% KDisp:0.9980 Lamp Flux:45833.5x1 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)	4963.3	10.8
FM - Front-Medium(30-60)	14824	32.3
FH - Front-High(60-80)	8549.3	18.7
FVH - Front-Very High(80-90)	1020.8	2.2
Total Forward Light	29522	64.4

BL - Back-Low(0-30)	3417.6	7.5
BM - Back-Medium(30-60)	7318.8	16.0
BH - Back-High(60-80)	4650.2	10.1
BVH - Back-Very High(80-90)	705.07	1.5
Total Back Light	16312	35.6

UL - Uplight-Low(90-100)	51.09	0.1
UH - Uplight-High(100-180)	333.72	0.7
Total Up Light	384.81	0.8

BUG(Back,Up,Glare) Rating	B4-U3-G5
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	16092	220.19	16312
Street Side	29357	164.62	29522

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

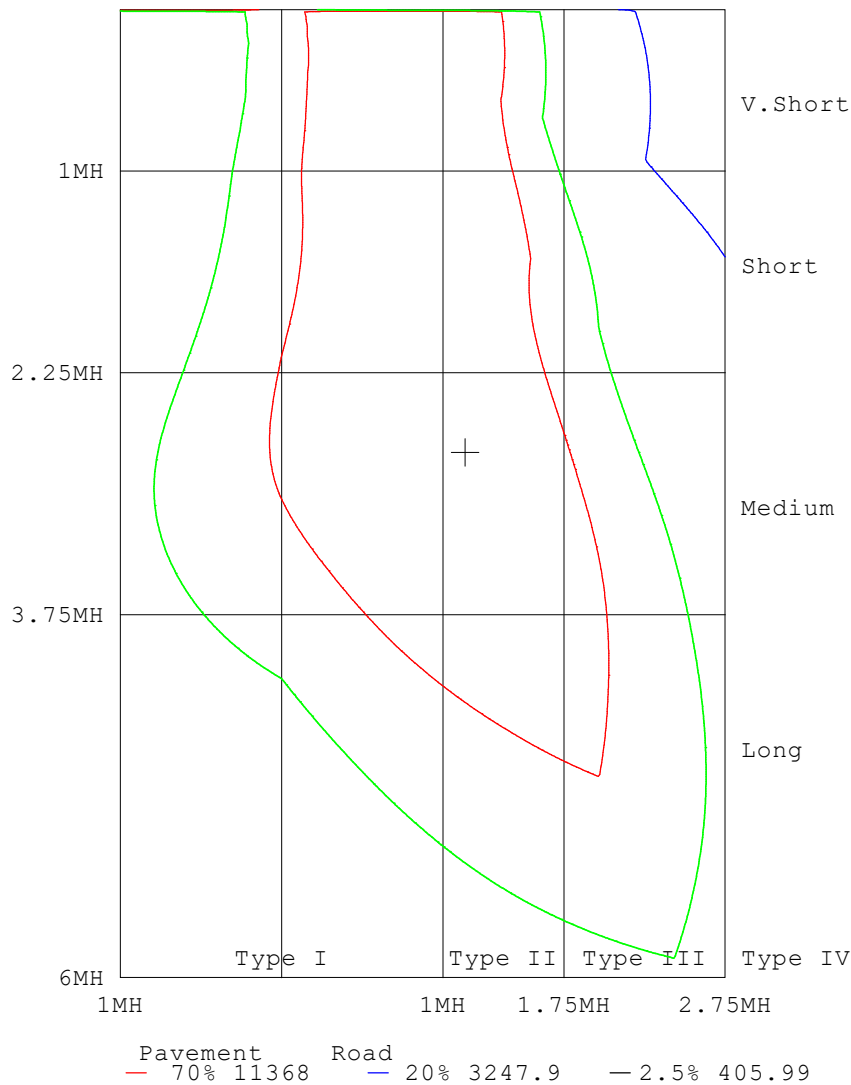
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0152]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.52V I:2.6012A P:308.92W PF:0.9937 Freq:60.00Hz UTHDi:2.02% ITHDi:8.56% KDisp:0.9980 Lamp Flux:45833.5x1 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°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=1.0152]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.52V I:2.6012A P:308.92W PF:0.9937 Freq:60.00Hz		
UTHDi:2.02% ITHDi:8.56% KDisp:0.9980 Lamp Flux:45833.5x1 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	992	992	992	992	992	992	992	992	992	992	992	992	992	992	992	992			
5	989	1015	1038	1054	1059	1054	1039	1018	993	968	946	932	927	932	945	965			
10	983	1048	1107	1147	1160	1146	1110	1056	992	930	880	848	839	849	877	924			
15	978	1070	1151	1206	1221	1204	1156	1081	990	905	838	797	787	799	835	896			
20	973	1104	1212	1280	1297	1275	1218	1121	991	870	779	730	717	732	776	858			
25	974	1130	1249	1319	1335	1313	1255	1151	994	848	744	689	675	692	740	834			
30	978	1172	1299	1364	1374	1354	1306	1198	1003	818	694	636	622	641	692	802			
35	983	1202	1331	1384	1386	1371	1338	1231	1011	798	662	604	590	611	662	782			
40	992	1249	1379	1400	1392	1383	1381	1286	1024	768	614	559	542	569	617	751			
45	999	1284	1404	1411	1392	1393	1403	1325	1036	748	579	527	508	538	584	730			
50	1006	1323	1442	1410	1310	1368	1447	1362	1044	712	524	471	453	482	533	693			
55	1005	1339	1479	1324	1106	1239	1477	1386	1050	686	484	431	417	443	495	664			
60	1018	1373	1502	953	642	832	1409	1444	1077	655	422	368	361	380	432	623			
65	1046	1412	1411	636	386	535	1225	1510	1114	647	380	326	325	339	389	604			
70	1108	1503	1083	290	198	244	831	1626	1160	660	318	262	271	276	325	600			
75	1049	1534	781	179	136	155	543	1589	1008	616	280	220	236	233	284	601			
80	585	1222	328	91.8	75.6	80.7	192	996	473	356	213	156	162	169	220	420			
85	251	649	123	54.5	43.4	46.8	85.0	387	180	165	149	109	93.1	119	165	228			
90	20.5	88.5	13.0	10.5	8.79	6.09	10.5	3.63	5.34	11.6	1.91	19.7	0.81	5.23	38.9	15.3			
95	5.89	4.31	2.67	1.75	1.52	1.56	1.76	2.38	5.42	4.94	2.21	1.07	1.06	2.19	4.53	4.78			
100	7.40	5.51	3.42	2.27	1.97	1.97	2.18	2.91	6.96	6.37	3.49	1.84	1.86	3.56	6.13	6.07			
105	8.24	6.17	3.89	2.61	2.26	2.25	2.45	3.15	7.75	7.03	4.31	2.58	2.61	4.58	7.00	6.53			
110	9.14	6.92	4.56	3.11	2.71	2.66	2.87	3.50	8.66	7.92	5.40	3.87	4.00	6.09	7.94	6.92			
115	9.66	7.38	5.00	3.46	3.00	2.95	3.13	3.74	9.20	8.52	5.99	4.68	4.93	6.93	8.42	7.19			
120	10.2	7.96	5.53	3.90	3.39	3.32	3.45	3.99	9.88	9.33	6.78	5.73	6.05	7.86	8.93	7.58			
125	10.3	8.19	5.77	4.16	3.63	3.54	3.64	4.11	10.1	9.73	7.33	6.32	6.63	8.25	9.13	7.67			
130	10.0	8.24	6.04	4.52	3.94	3.79	3.88	4.27	10.1	10.05	8.16	7.14	7.37	8.66	9.21	7.49			
135	9.80	8.21	6.22	4.75	4.13	3.95	4.04	4.37	9.92	10.1	8.62	7.69	7.83	8.84	9.02	7.26			
140	9.53	8.20	6.49	5.13	4.46	4.23	4.25	4.50	9.65	10.1	9.08	8.38	8.45	8.93	8.45	6.83			
145	9.38	8.23	6.67	5.40	4.71	4.44	4.37	4.59	9.47	9.95	9.24	8.68	8.69	8.83	8.04	6.55			
150	9.17	8.25	6.97	5.80	5.04	4.71	4.57	4.70	9.19	9.68	9.33	8.86	8.74	8.43	7.47	6.13			
155	9.04	8.30	7.18	6.09	5.29	4.91	4.71	4.78	9.04	9.50	9.29	8.86	8.63	8.11	7.15	5.92			
160	8.93	8.40	7.52	6.53	5.70	5.24	4.95	4.90	8.93	9.31	9.19	8.76	8.38	7.68	6.78	5.73			
165	8.91	8.51	7.77	6.85	6.01	5.49	5.12	5.02	8.92	9.27	9.14	8.69	8.20	7.48	6.62	5.68			
170	8.96	8.77	8.20	7.32	6.48	5.88	5.46	5.24	8.98	9.25	9.13	8.60	7.98	7.24	6.50	5.71			
175	9.01	8.93	8.45	7.62	6.82	6.17	5.70	5.39	9.03	9.23	9.04	8.44	7.77	7.03	6.35	5.70			
180	9.01	9.09	8.77	8.06	7.29	6.61	6.02	5.55	9.02	9.09	8.78	8.06	7.31	6.61	6.03	5.56			

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=1.0152]

Remarks: