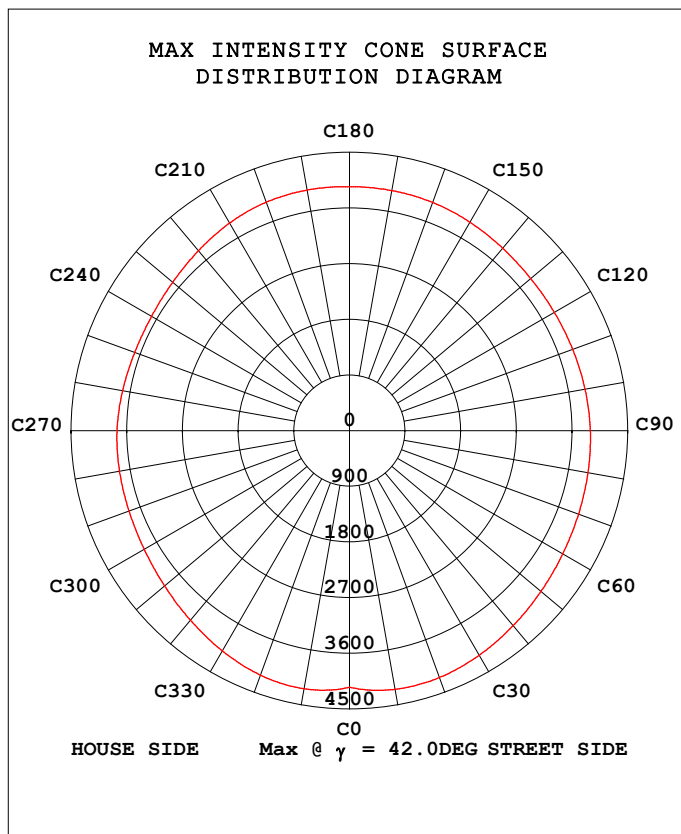
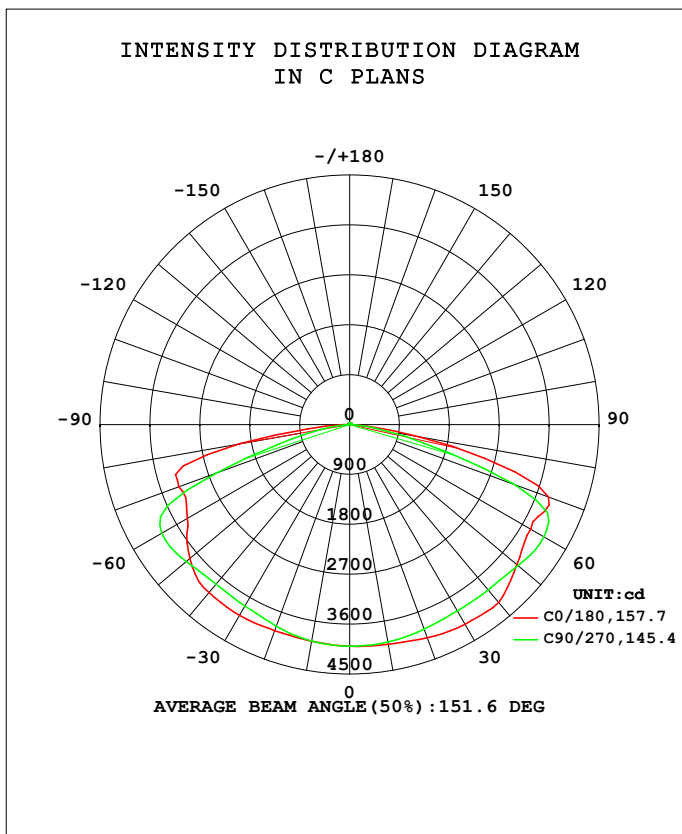


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.93V I:1.0996A P:131.60W PF:0.9980 Freq:60.00Hz		
UTHDi:1.33% ITHDi:3.58% KDisp:0.9997 Lamp Flux:20176.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: HAVELLS LIGHTING LLC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.31 lm/W			
MODEL	HL-AL-MW-MCCT-ML3-150W-BR-PS-XX	Imax (cd)	4238	η street_up (%)	0.4
NOMINAL POWER (W)	150	LOR (%)	100.0	η street_down (%)	50.9
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	20177	η house_up (%)	0.4
NOMINAL FLUX (lm)	20176.5	MAXIMUM @ (C, γ)	23,42.0	η house_down (%)	48.3
LAMPS INSIDE	1	η up (%)	0.8	76 FLASHAREA (m2)	0.05000
TEST VOLTAGE (V)	120	η down (%)	99.2	SLI	23.949



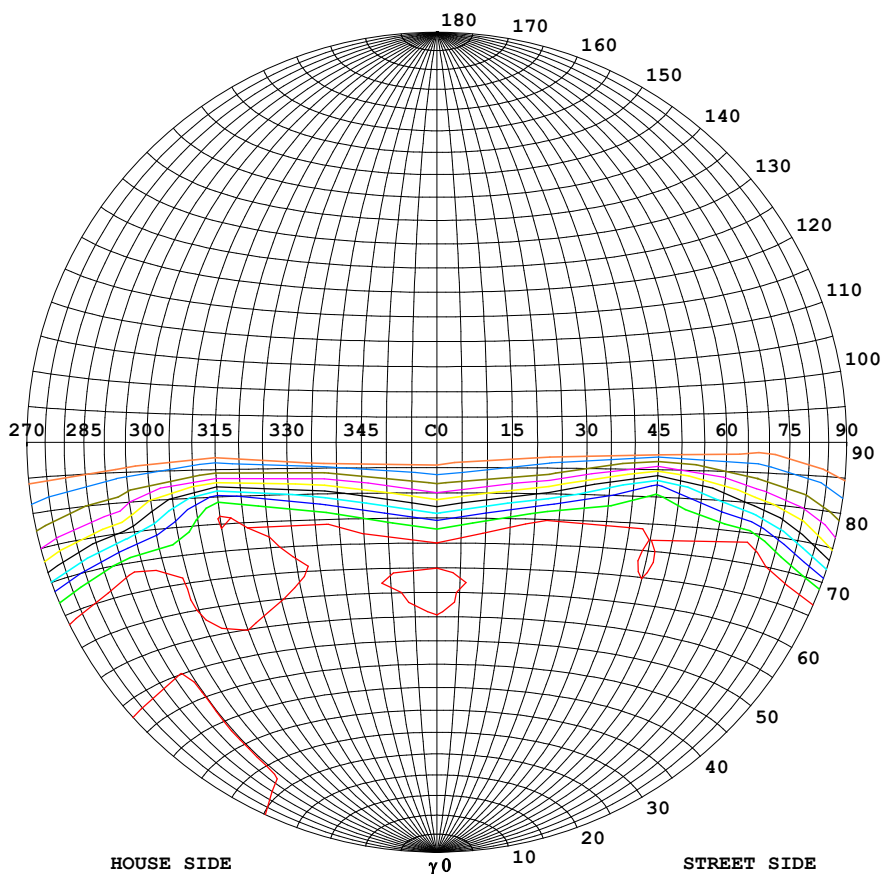
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 23 June 2025

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=1.0442]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.93V I:1.0996A P:131.60W PF:0.9980 Freq:60.00Hz		
UTHDi:1.33% ITHDi:3.58% KDisp:0.9997 Lamp Flux:20176.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



Classification:

IES:Type VS - Very Short
 CIE:Broad - Short
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:173.0cd/klm
 Max.At90:16.77cd/klm
 Max.80-90:173.0cd/klm

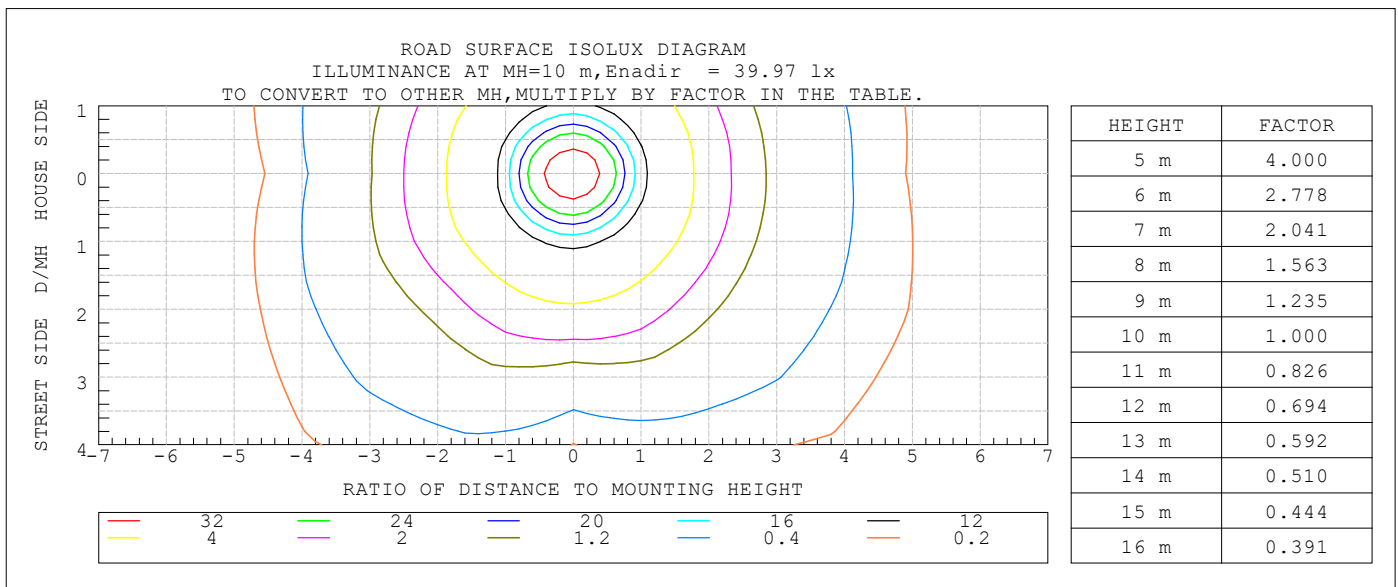
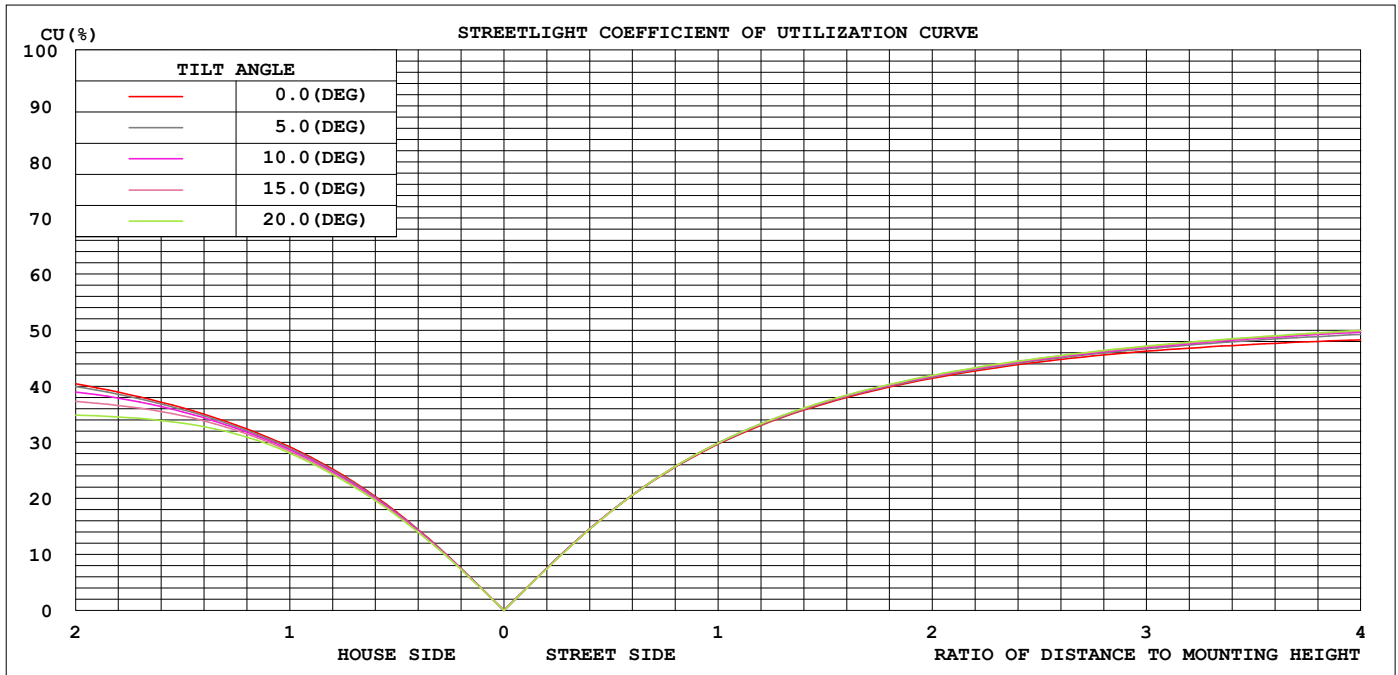
ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	4238
90%	3814
80%	3391
70%	2967
60%	2543
50%	2119
40%	1695
30%	1271
20%	848
10%	424
5%	212

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=1.0442]
 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=1.0442]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:119.93V I:1.0996A P:131.60W PF:0.9980 Freq:60.00Hz		
UTHDi:1.33% ITHDi:3.58% KDisp:0.9997 Lamp Flux:20176.5x1 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	4022	4006	3980	3963	3967	3964	3962	3982	0- 10	380.7	380.7	1.89,1.89
20	4089	4008	3928	3897	3955	3909	3868	3938	10- 20	1124	1504	7.46,7.46
30	4158	4023	3880	3835	3974	3827	3779	3917	20- 30	1822	3326	16.5,16.5
40	4185	4060	3891	3833	3951	3773	3753	3936	30- 40	2468	5794	28.7,28.7
50	3938	4036	3958	3826	3761	3692	3846	3891	40- 50	3032	8825	43.7,43.7
60	3771	3869	4046	3700	3383	3470	3913	3744	50- 60	3430	12256	60.7,60.7
70	3813	3793	3153	3533	3279	3156	2557	3680	60- 70	3674	15930	79,79
80	1268	3491	668.5	3327	2026	2686	543.9	3121	70- 80	3118	19048	94.4,94.4
90	12.19	15.88	11.21	155.4	13.24	11.22	5.718	10.26	80- 90	969.0	20017	99.2,99.2
100	18.14	16.81	15.63	16.44	15.38	15.93	13.19	15.29	90-100	18.47	20035	99.3,99.3
110	24.05	22.70	22.49	21.76	21.73	21.71	19.61	20.79	100-110	19.66	20055	99.4,99.4
120	29.63	28.08	27.80	27.68	28.16	27.45	25.13	25.23	110-120	24.27	20079	99.5,99.5
130	31.61	30.33	31.43	30.98	32.09	31.08	29.18	27.97	120-130	25.98	20105	99.6,99.6
140	32.16	31.56	31.91	31.56	33.46	32.15	31.22	29.24	130-140	23.93	20129	99.8,99.8
150	32.77	32.40	32.44	31.36	33.48	32.08	31.34	29.94	140-150	19.82	20149	99.9,99.9
160	33.10	33.32	33.10	31.66	33.89	32.66	31.78	31.09	150-160	14.81	20164	99.9,99.9
170	34.32	34.69	33.81	32.66	35.00	34.01	33.29	32.80	160-170	9.338	20173	100,100
180	35.44	34.99	34.14	33.59	35.46	34.99	34.16	33.61	170-180	3.249	20177	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%

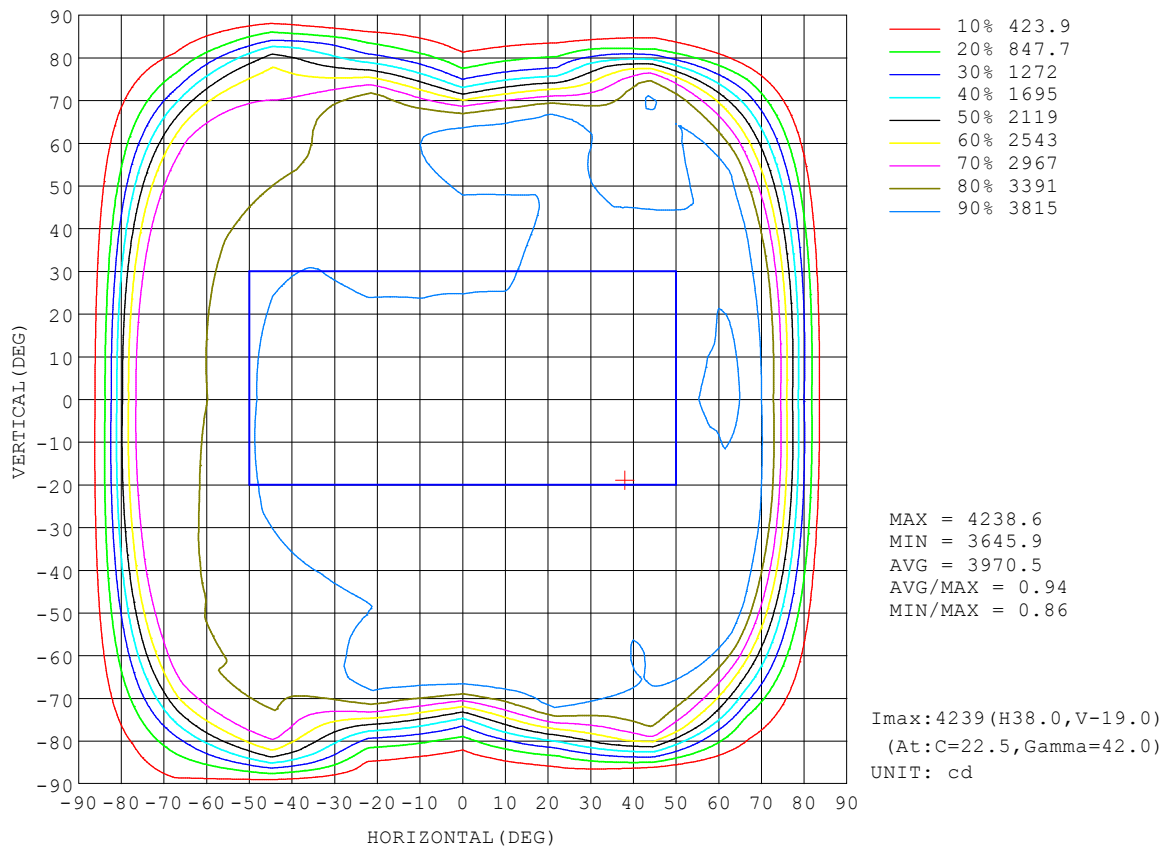
Test Distance:6.895m [K=1.0442]

Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

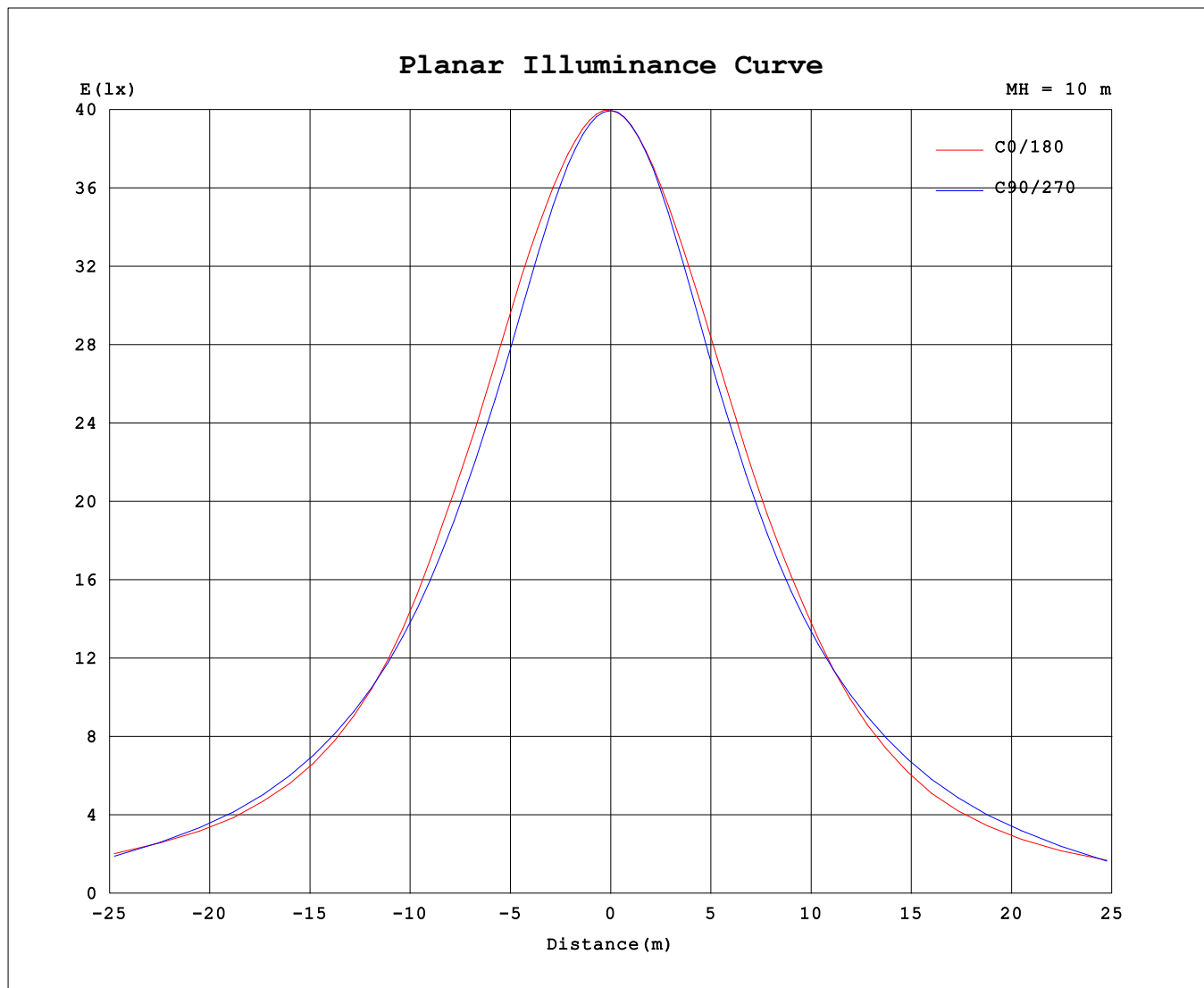
Test:U:119.93V I:1.0996A P:131.60W PF:0.9980 Freq:60.00Hz UTHDi:1.33% ITHDi:3.58% KDisp:0.9997 Lamp Flux:20176.5x1 lm		
NAME: streetlight	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



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=1.0442]
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=1.0442]

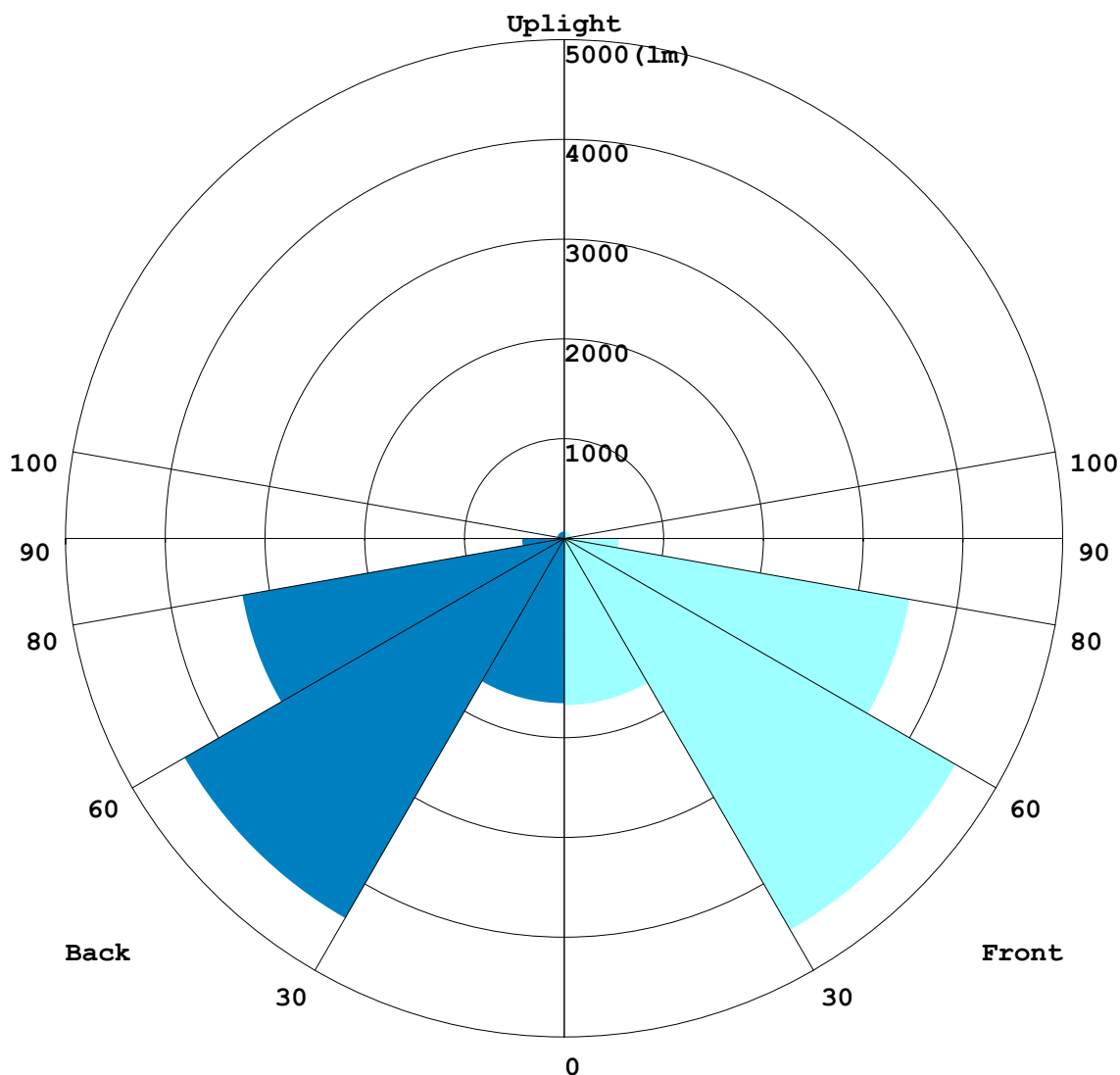
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:119.93V I:1.0996A P:131.60W PF:0.9980 Freq:60.00Hz		
UTHDi:1.33% ITHDi:3.58% KDisp:0.9997 Lamp Flux:20176.5x1 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=1.0442]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:119.93V I:1.0996A P:131.60W PF:0.9980 Freq:60.00Hz UTHDi:1.33% ITHDi:3.58% KDisp:0.9997 Lamp Flux:20176.5x1 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)	1672.8	8.3
FM - Front-Medium(30-60)	4533.4	22.5
FH - Front-High(60-80)	3517.2	17.4
FVH - Front-Very High(80-90)	546.1	2.7
Total Forward Light	10353	51.3

BL - Back-Low(0-30)	1653	8.2
BM - Back-Medium(30-60)	4396.6	21.8
BH - Back-High(60-80)	3275.2	16.2
BVH - Back-Very High(80-90)	422.86	2.1
Total Back Light	9823.7	48.7

UL - Uplight-Low(90-100)	18.474	0.1
UH - Uplight-High(100-180)	141.05	0.7
Total Up Light	159.52	0.8

BUG(Back,Up,Glare) Rating	B4-U3-G4
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	9747.6	76.015	9823.7
Street Side	10269	83.506	10353

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

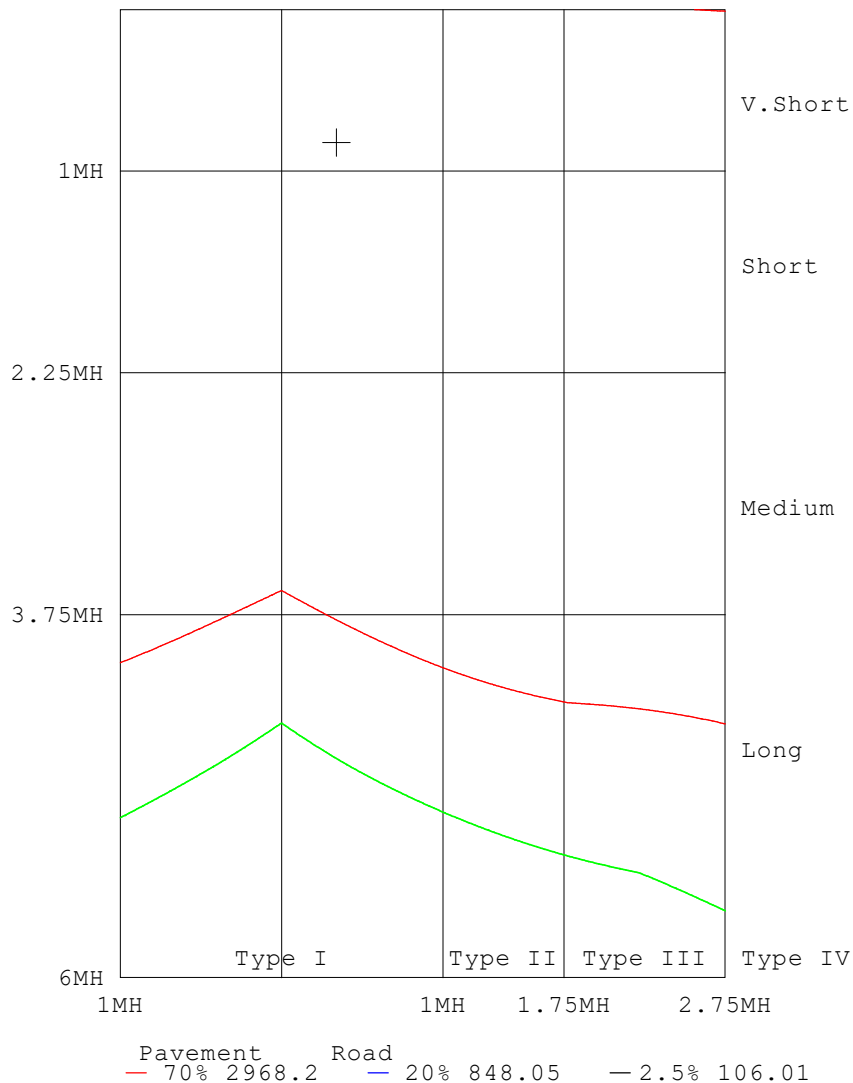
γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.471
Humidity:65.0%
Test Distance:6.895m [K=1.0442]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:119.93V I:1.0996A P:131.60W PF:0.9980 Freq:60.00Hz UTHDi:1.33% ITHDi:3.58% KDisp:0.9997 Lamp Flux:20176.5x1 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=1.0442]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.93V I:1.0996A P:131.60W PF:0.9980 Freq:60.00Hz																	
UTHDi:1.33% ITHDi:3.58% KDisp:0.9997									Lamp Flux:20176.5x1 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	3996	3996	3996	3996	3996	3996	3996	3996	3996	3996	3996	3996	3996	3996	3996	3996			
5	4005	4005	4002	3999	3995	3989	3987	3986	3986	3984	3986	3987	3990	3991	3996	4002			
10	4022	4018	4006	3993	3980	3968	3963	3963	3967	3965	3964	3963	3962	3967	3982	4002			
15	4042	4034	4005	3982	3964	3947	3940	3947	3957	3955	3946	3937	3934	3938	3965	4008			
20	4089	4071	4008	3957	3928	3902	3897	3927	3955	3945	3909	3878	3868	3877	3938	4036			
25	4124	4102	4012	3937	3901	3872	3868	3921	3963	3945	3878	3830	3822	3838	3925	4061			
30	4158	4144	4023	3921	3880	3841	3835	3920	3974	3945	3827	3770	3779	3807	3917	4098			
35	4170	4164	4033	3929	3883	3840	3826	3921	3970	3940	3801	3747	3762	3805	3923	4117			
40	4185	4228	4060	3948	3891	3840	3833	3918	3951	3925	3773	3708	3753	3803	3936	4179			
45	4092	4218	4102	3953	3902	3831	3840	3931	3925	3920	3758	3678	3772	3798	3963	4161			
50	3938	4107	4036	3952	3958	3818	3826	3862	3761	3798	3692	3656	3846	3815	3891	4044			
55	3840	4052	3961	3959	4015	3831	3770	3775	3628	3697	3606	3674	3900	3845	3828	3983			
60	3771	3990	3869	4002	4046	3886	3700	3596	3383	3471	3470	3721	3913	3898	3744	3896			
65	3781	3991	3819	4030	3998	3912	3650	3497	3275	3372	3313	3757	3798	3944	3694	3862			
70	3813	4138	3793	4071	3153	3800	3533	3391	3279	3273	3156	3781	2557	3604	3680	3935			
75	3104	3980	3797	3738	1877	3109	3474	3338	3268	3246	3053	3191	1451	2517	3813	3825			
80	1268	2192	3491	1963	668	1312	3327	3105	2026	2453	2686	1617	544	1021	3121	2298			
85	319	776	2061	848	253	568	2703	1905	780	1058	2006	841	223	421	928	870			
90	12.2	31.6	15.9	21.0	11.2	53.0	155	338	13.2	105	11.2	7.12	5.72	9.57	10.3	16.7			
95	14.2	12.7	13.4	16.3	11.7	9.20	13.0	14.4	10.6	14.1	12.7	8.11	8.51	12.4	12.2	10.4			
100	18.1	16.4	16.8	17.7	15.6	13.6	16.4	18.0	15.4	17.7	15.9	12.1	13.2	16.1	15.3	13.1			
105	20.4	18.5	18.8	19.8	18.7	16.3	18.4	20.2	18.1	19.9	18.0	14.6	16.0	18.2	17.3	15.0			
110	24.0	22.1	22.7	23.2	22.5	19.9	21.8	23.6	21.7	23.5	21.7	18.2	19.6	21.2	20.8	18.2			
115	26.6	24.7	25.1	25.5	24.6	22.2	24.2	26.1	24.3	26.3	24.3	20.6	21.9	23.6	22.9	20.6			
120	29.6	28.0	28.1	28.6	27.8	25.5	27.7	29.6	28.2	29.8	27.5	24.1	25.1	26.5	25.2	23.7			
125	30.9	29.7	29.3	29.8	29.7	27.5	29.5	31.0	30.1	31.0	29.1	26.2	27.1	28.2	26.5	25.2			
130	31.6	30.8	30.3	30.5	31.4	29.8	31.0	31.4	32.1	32.5	31.1	28.8	29.2	29.5	28.0	26.9			
135	31.8	31.0	30.9	30.9	31.8	30.8	31.4	31.4	32.9	32.8	31.8	30.0	30.2	29.9	28.6	27.7			
140	32.2	31.6	31.6	31.5	31.9	31.4	31.6	31.4	33.5	32.8	32.1	31.0	31.2	30.2	29.2	28.5			
145	32.5	32.0	31.9	31.9	32.0	31.6	31.4	31.5	33.4	32.8	32.1	31.3	31.4	30.2	29.5	28.8			
150	32.8	32.4	32.4	32.5	32.4	31.7	31.4	31.5	33.5	32.8	32.1	31.3	31.3	30.4	29.9	29.4			
155	32.9	32.6	32.7	32.8	32.7	31.8	31.4	31.5	33.5	32.9	32.2	31.4	31.4	30.7	30.3	29.8			
160	33.1	33.2	33.3	33.4	33.1	32.2	31.7	31.7	33.9	33.3	32.7	31.9	31.8	31.4	31.1	30.6			
165	33.5	33.7	33.8	34.0	33.4	32.6	32.0	32.0	34.3	33.7	33.1	32.4	32.3	32.0	31.7	31.3			
170	34.3	34.6	34.7	34.5	33.8	33.2	32.7	32.6	35.0	34.4	34.0	33.4	33.3	33.0	32.8	32.3			
175	34.9	35.2	35.0	34.5	34.0	33.5	33.2	33.1	35.5	34.9	34.6	34.0	33.9	33.5	33.5	33.1			
180	35.4	35.3	35.0	34.5	34.1	33.8	33.6	33.4	35.5	35.3	35.0	34.4	34.2	33.8	33.6	33.4			

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=1.0442]

Remarks: