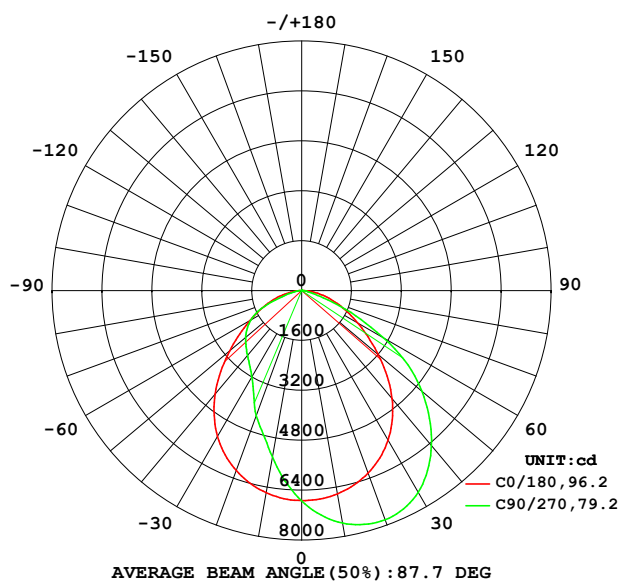
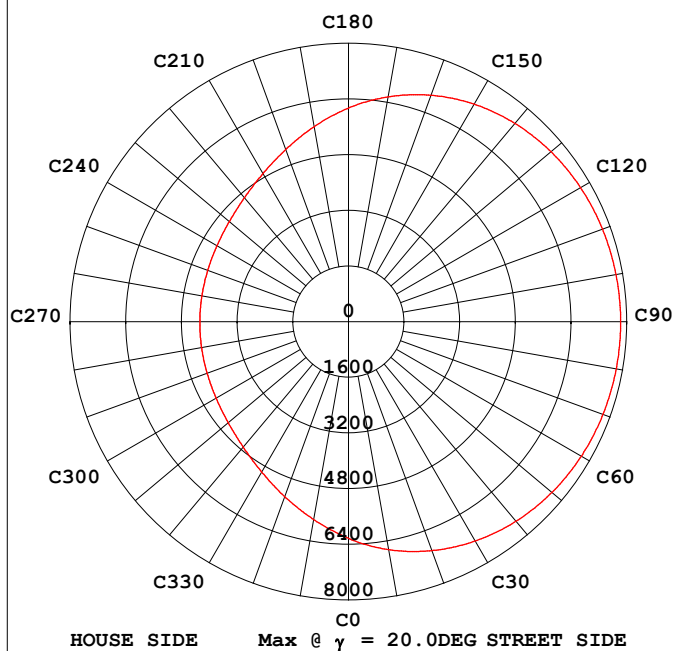


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.32V I:0.9359A P:112.29W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17176.5x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 152.97 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	7822	η street_up (%)	0.0
NOMINAL POWER (W)	120	LOR (%)	100.0	η street_down (%)	64.9
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	17176	η house_up (%)	0.0
NOMINAL FLUX (lm)	17176.5	MAXIMUM @ (C, γ)	90, 20.0	η house_down (%)	35.1
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	100.0	SLI	

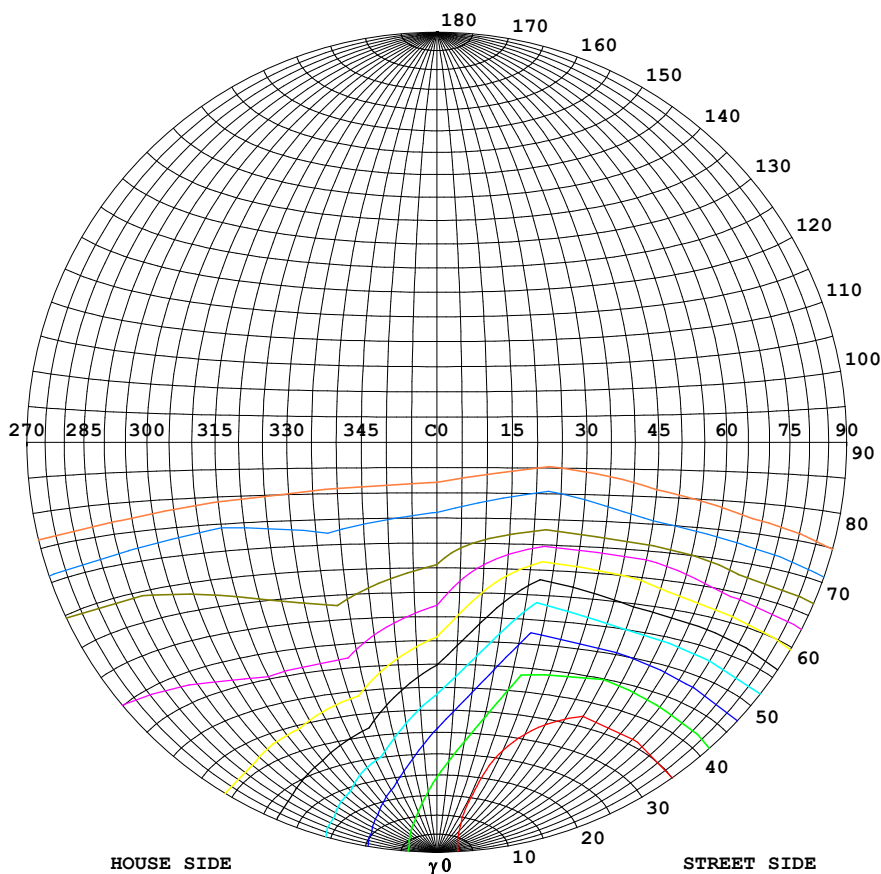
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 2026-07-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.740m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.32V I:0.9359A P:112.29W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17176.5x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:



Classification:

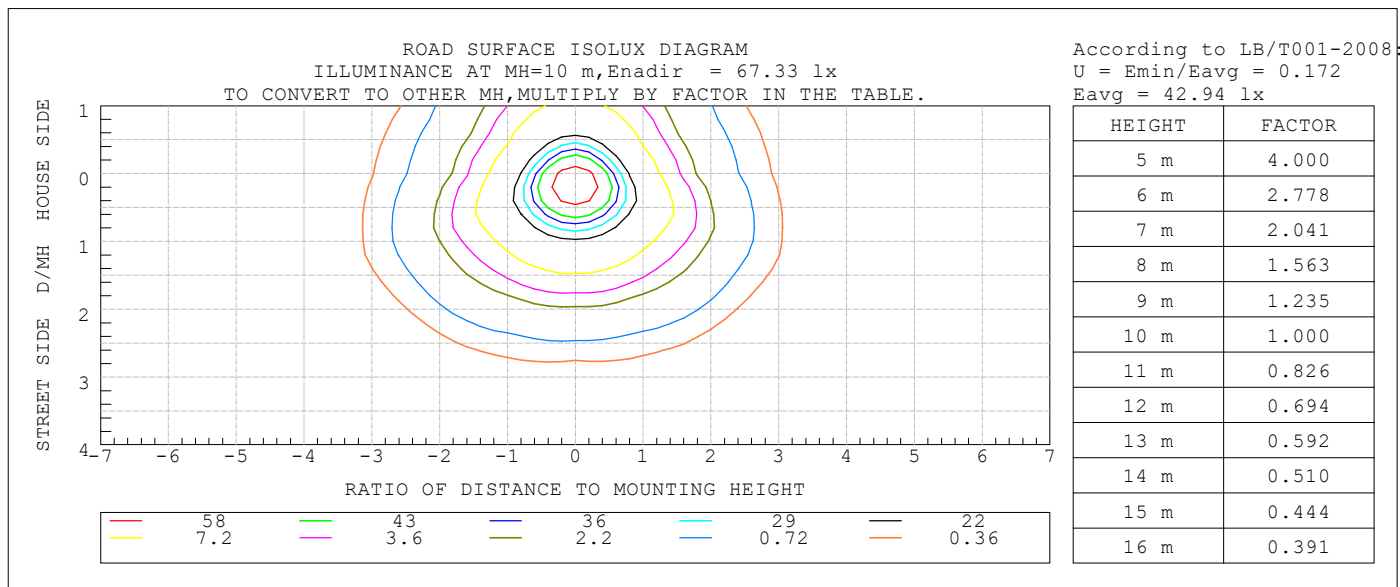
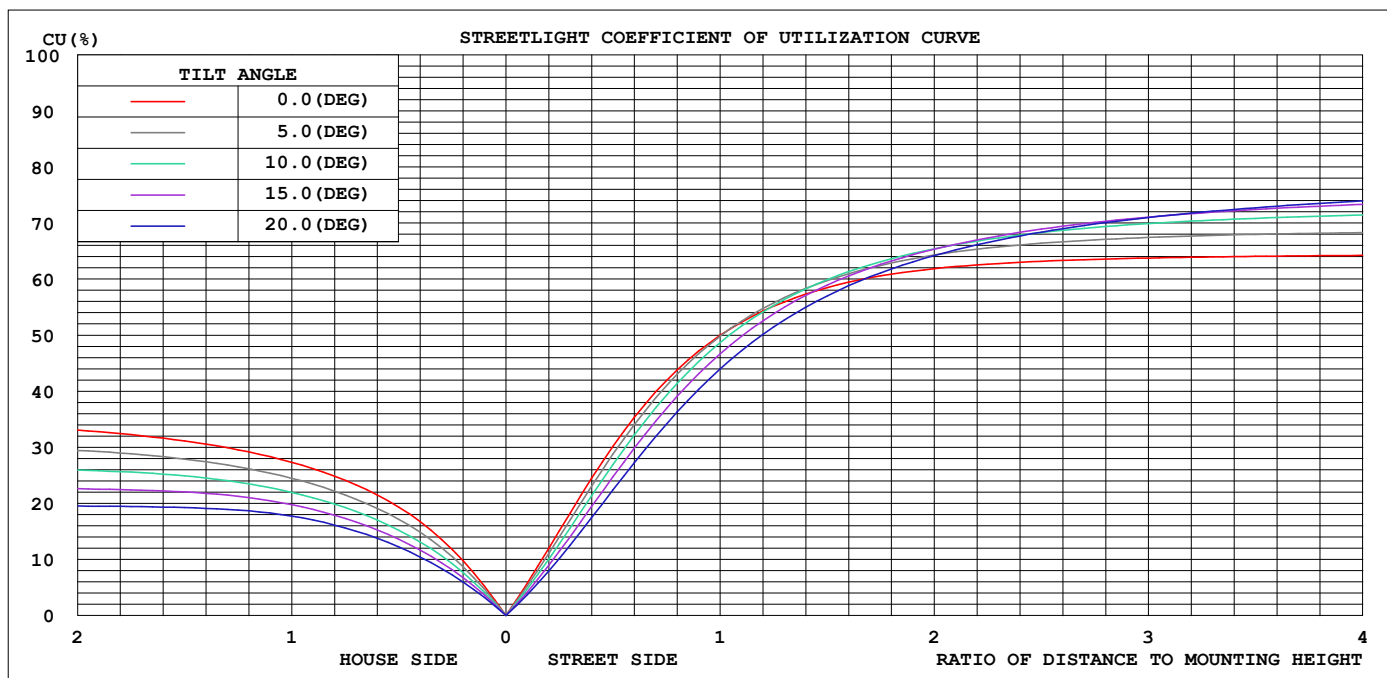
IES:Type II - Very Short
CIE:Narrow - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:48.08cd/klm
Max.At90:0cd/klm
Max.80-90:48.08cd/klm
NRB 5101:Limited[6.2%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	7822
90%	7040
80%	6258
70%	5476
60%	4693
50%	3911
40%	3129
30%	2347
20%	1564
10%	782
5%	391

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks:

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: 2026-07-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.740m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.32V I:0.9359A P:112.29W PF:1.0236 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17176.5x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:

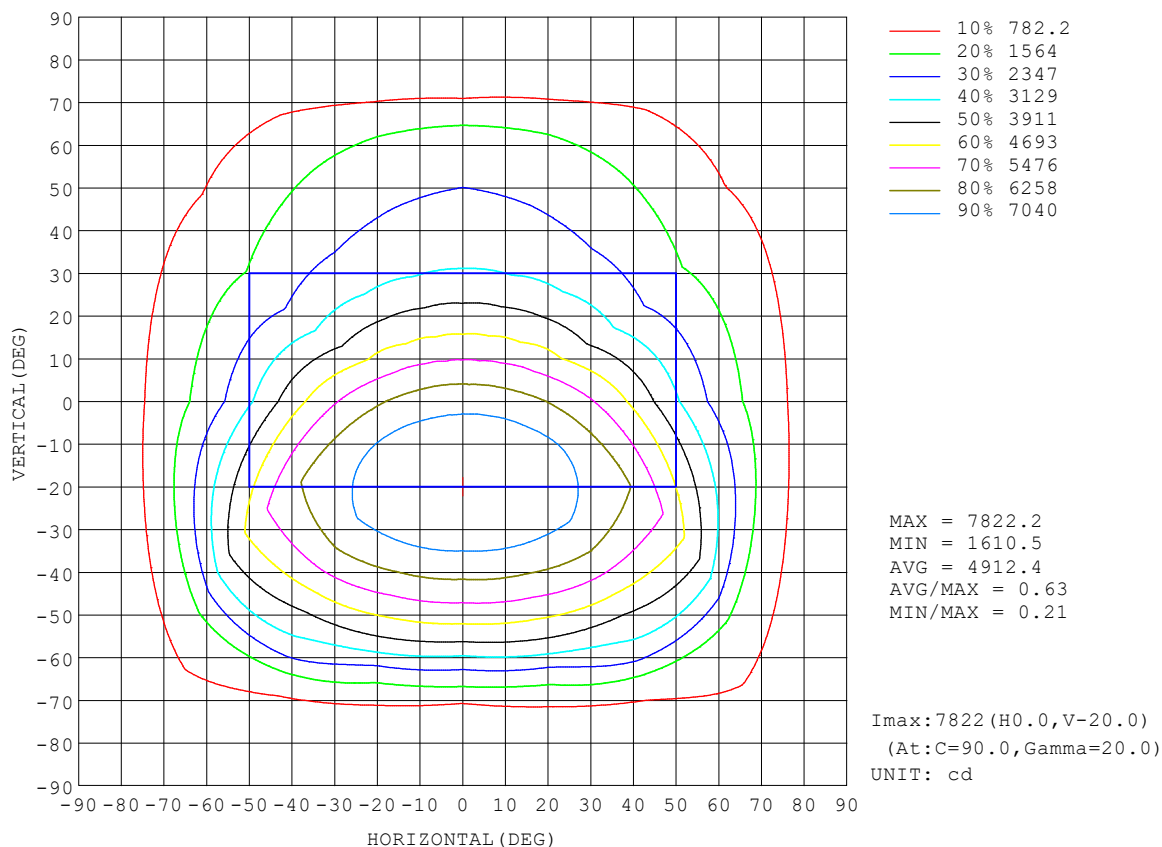
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	6617	7345	7565	7314	6580	5758	5424	5780	0- 10	633.9	633.9	3.69,3.69
20	6229	7570	7822	7528	6142	4556	4276	4603	10- 20	1787	2421	14.1,14.1
30	5541	7428	7469	7377	5400	3484	3202	3558	20- 30	2661	5082	29.6,29.6
40	4512	6791	6476	6723	4324	2629	2712	2676	30- 40	3152	8235	47.9,47.9
50	3226	5530	5040	5421	3020	2071	2349	2110	40- 50	3219	11453	66.7,66.7
60	2068	3808	3027	3676	1916	1589	1882	1631	50- 60	2825	14278	83.1,83.1
70	1212	1877	896.8	1716	1091	1052	907.2	1108	60- 70	1931	16208	94.4,94.4
80	526.2	463.6	193.1	412.3	425.3	273.9	208.8	334.3	70- 80	779.4	16988	98.9,98.9
90	0	0	0	0	0	0	0	0	80- 90	188.7	17176	100,100
100	0	0	0	0	0	0	0	0	90-100	0	17176	100,100
110	0	0	0	0	0	0	0	0	100-110	0	17176	100,100
120	0	0	0	0	0	0	0	0	110-120	0	17176	100,100
130	0	0	0	0	0	0	0	0	120-130	0	17176	100,100
140	0	0	0	0	0	0	0	0	130-140	0	17176	100,100
150	0	0	0	0	0	0	0	0	140-150	0	17176	100,100
160	0	0	0	0	0	0	0	0	150-160	0	17176	100,100
170	0	0	0	0	0	0	0	0	160-170	0	17176	100,100
180	0	0	0	0	0	0	0	0	170-180	0	17176	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:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

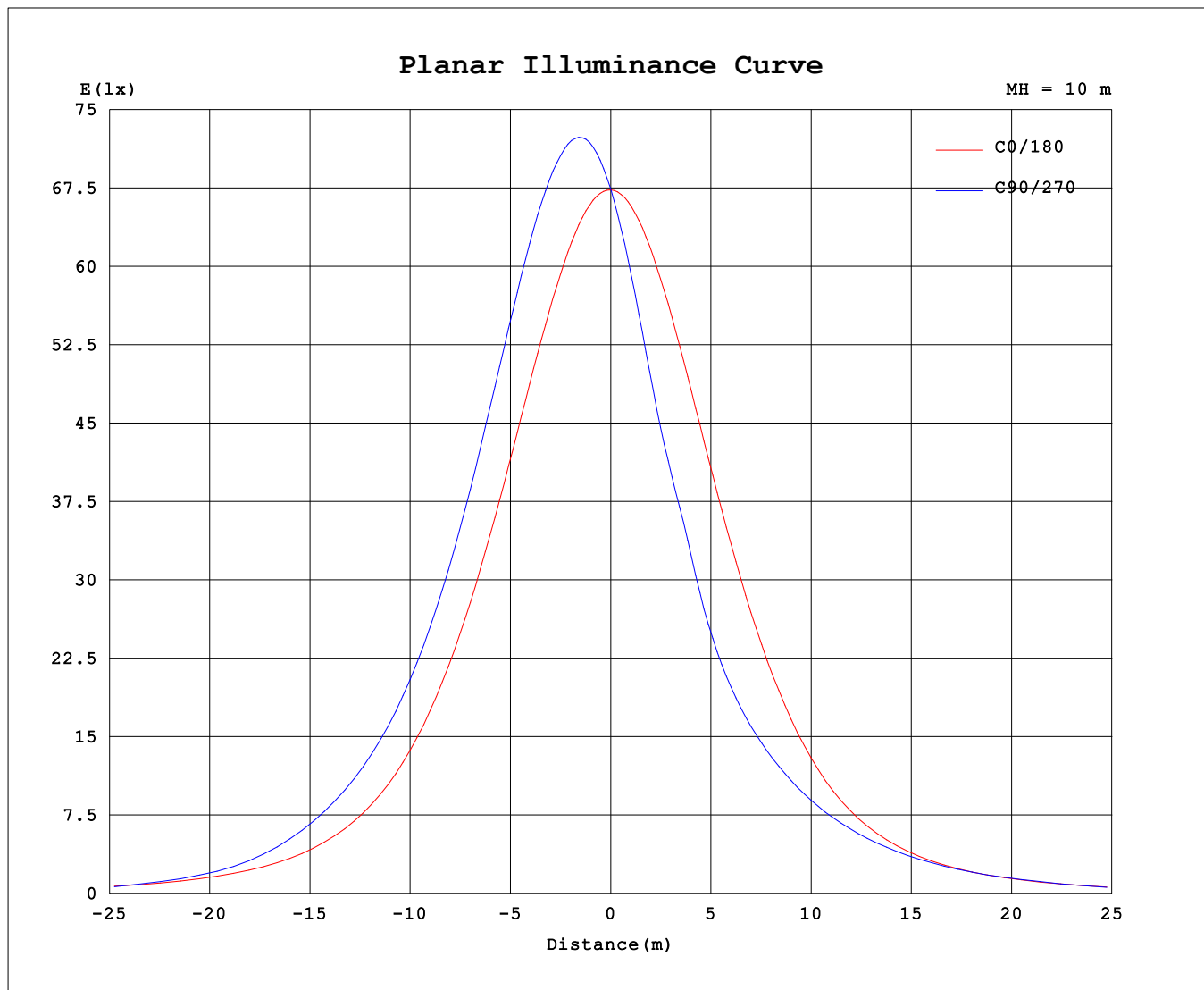
Test:U:120.32V I:0.9359A P:112.29W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17176.5x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: DAMIN
Test Date: 2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.740m [K=1.0000]
Remarks:

Planar Illuminance Curve



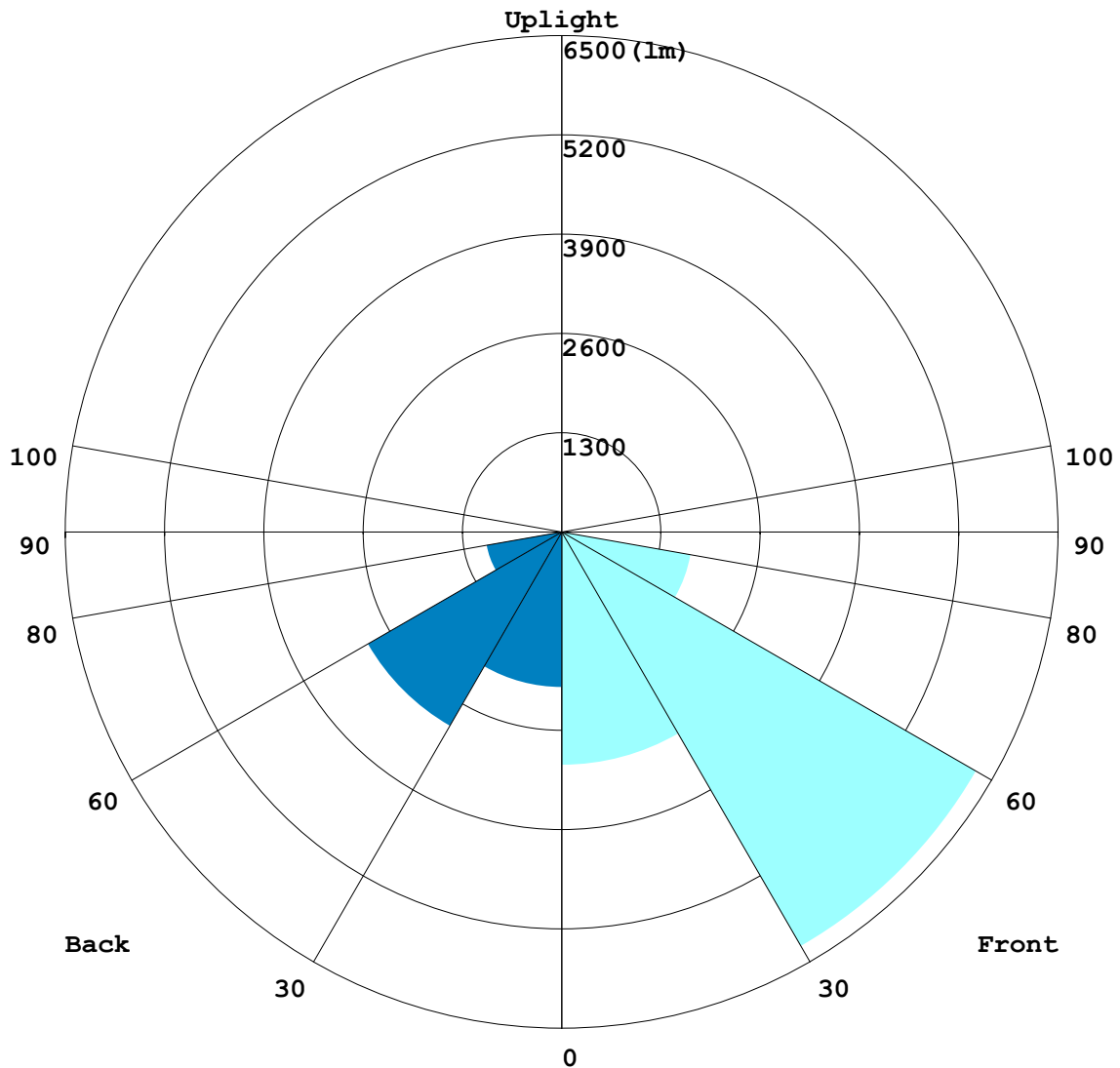
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 2026-07-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.740m [K=1.0000]
Remarks:

LCS REPORT

Test:U:120.32V I:0.9359A P:112.29W PF:1.0236 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17176.5x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	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:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks:

BUG REPORT

Test:U:120.32V I:0.9359A P:112.29W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17176.5x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	3050.4	17.8
FM - Front-Medium(30-60)	6264.1	36.5
FH - Front-High(60-80)	1712.8	10.0
FVH - Front-Very High(80-90)	116.59	0.7
Total Forward Light	11144	64.9

BL - Back-Low(0-30)	2031.8	11.8
BM - Back-Medium(30-60)	2931.4	17.1
BH - Back-High(60-80)	997.3	5.8
BVH - Back-Very High(80-90)	72.081	0.4
Total Back Light	6032.6	35.1

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B3-U0-G2
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6032.6	0	6032.6
Street Side	11144	0	11144

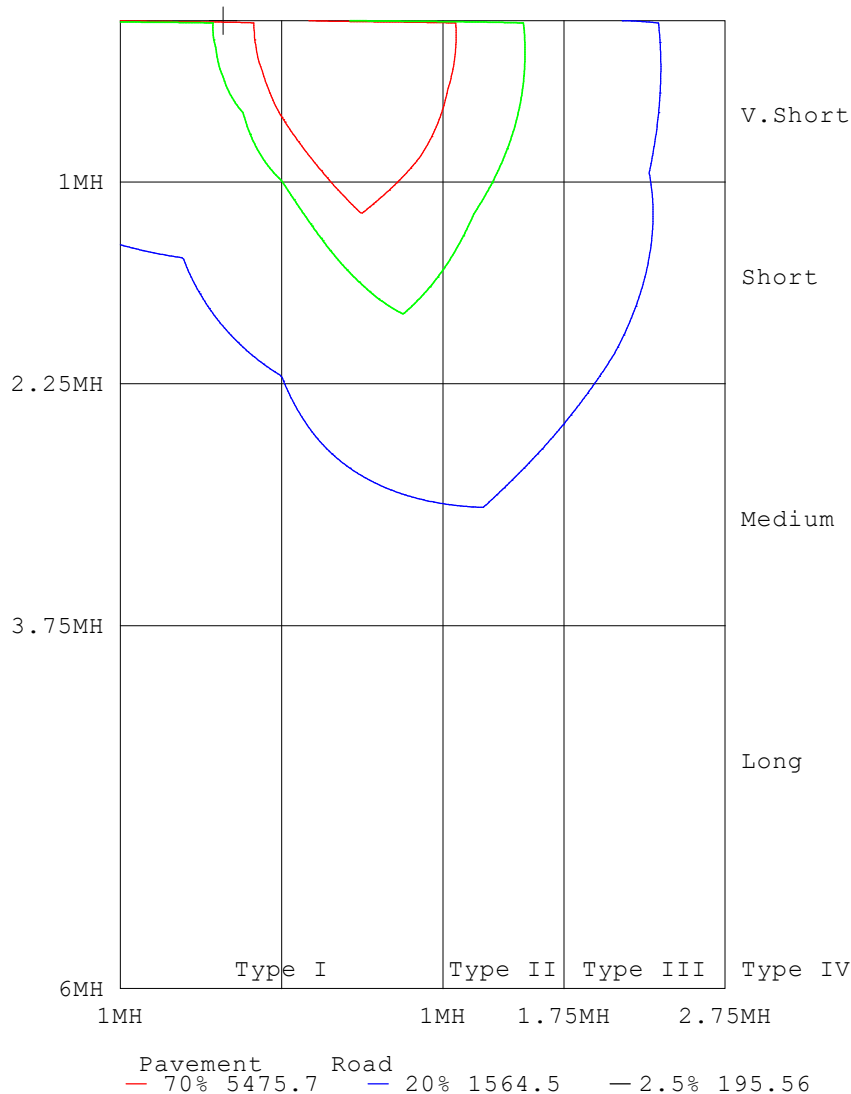
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.32V I:0.9359A P:112.29W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17176.5x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.32V I:0.9359A P:112.29W PF:1.0236 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17176.5x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	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	6733	6740	6742	6734	6739	6730	6734	6730	6733	6740	6742	6734	6739	6730	6734	6730			
5	6709	6925	7093	7189	7225	7174	7070	6897	6694	6481	6299	6164	6128	6162	6303	6489			
10	6617	7038	7345	7512	7565	7493	7314	6995	6580	6138	5758	5495	5424	5507	5780	6167			
15	6457	7080	7501	7709	7761	7687	7461	7033	6398	5704	5140	4834	4768	4851	5180	5754			
20	6229	7078	7570	7776	7822	7758	7528	7007	6142	5175	4556	4321	4276	4341	4603	5259			
25	5925	7014	7550	7712	7726	7688	7503	6934	5813	4591	4058	3727	3656	3759	4113	4692			
30	5541	6895	7428	7497	7469	7468	7377	6802	5400	4008	3484	3223	3202	3247	3558	4114			
35	5069	6721	7180	7126	7043	7091	7123	6618	4898	3448	2997	2887	2917	2907	3056	3559			
40	4512	6477	6791	6593	6476	6549	6723	6361	4324	2900	2629	2649	2712	2663	2676	3013			
45	3880	6145	6239	5937	5796	5883	6155	6017	3671	2429	2331	2442	2528	2459	2372	2525			
50	3226	5712	5530	5188	5040	5126	5421	5575	3020	2029	2071	2247	2349	2264	2110	2105			
55	2610	5168	4686	4384	4171	4321	4551	5011	2428	1687	1829	2036	2139	2055	1868	1753			
60	2068	4455	3808	3414	3027	3333	3676	4286	1916	1372	1589	1804	1882	1827	1631	1432			
65	1616	3507	3046	2129	1921	2048	2925	3290	1476	1093	1342	1487	1533	1517	1386	1148			
70	1212	2273	1877	1195	897	1132	1716	2052	1091	841	1052	972	907	1030	1108	892			
75	856	1258	837	555	381	531	766	1123	749	609	625	490	473	526	715	657			
80	526	826	464	264	193	252	412	686	425	371	274	212	209	231	334	431			
85	210	412	215	115	88.2	106	180	304	135	123	92.6	95.8	97.9	106	117	181			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks: