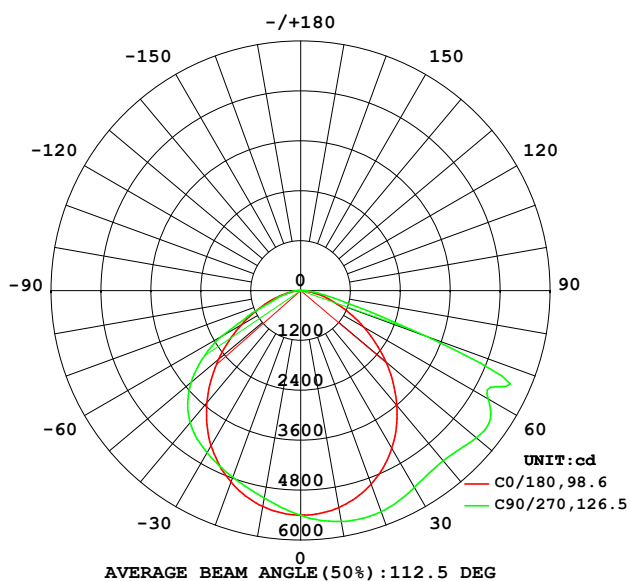
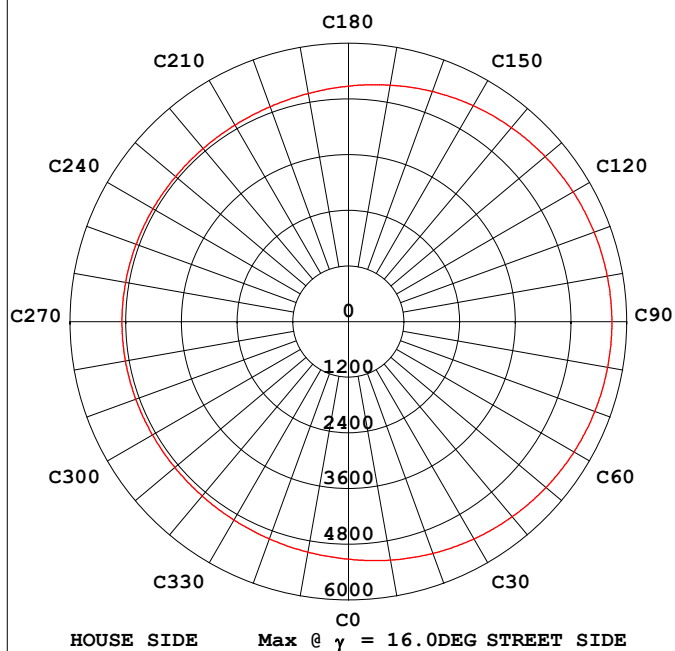


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.36V I:0.9342A P:112.12W PF:1.0239 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16905.2x1 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: 150.78 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax(cd)	5677	η street_up(%)	0.0
NOMINAL POWER(W)	120	LOR(%)	100.0	η street_down(%)	59.1
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	16905	η house_up(%)	0.0
NOMINAL FLUX(lm)	16905.2	MAXIMUM @ (C, γ)	90,16.0	η house_down(%)	40.9
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	120	η down(%)	100.0	SLI	

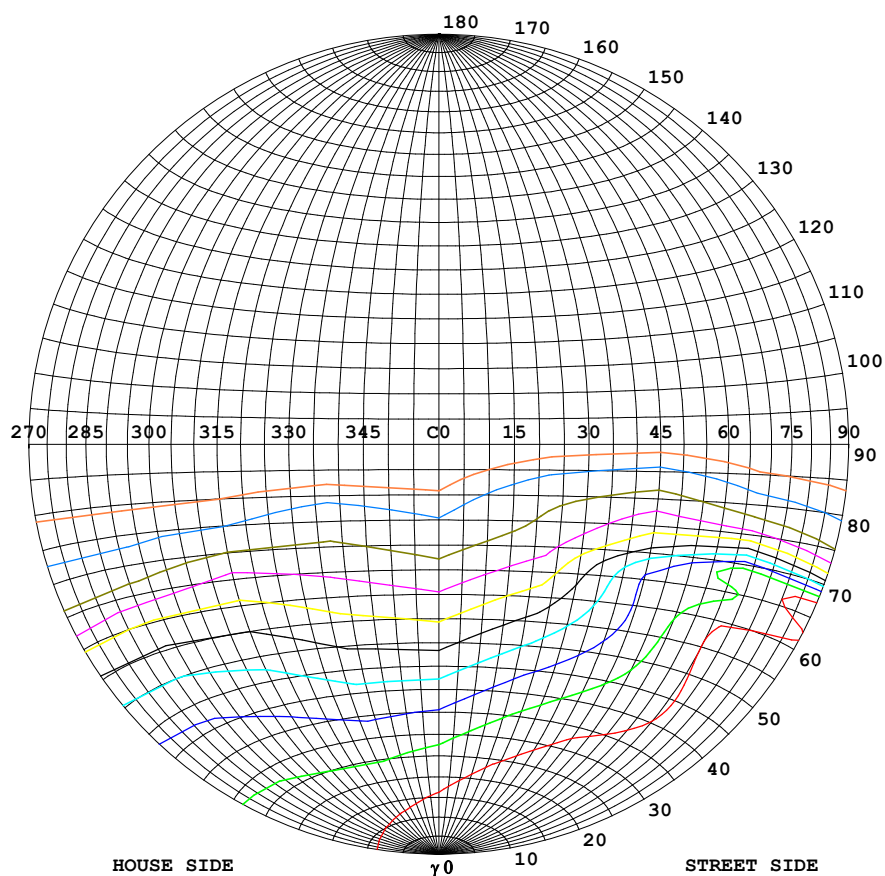
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
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:120.36V I:0.9342A P:112.12W PF:1.0239 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16905.2x1 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:



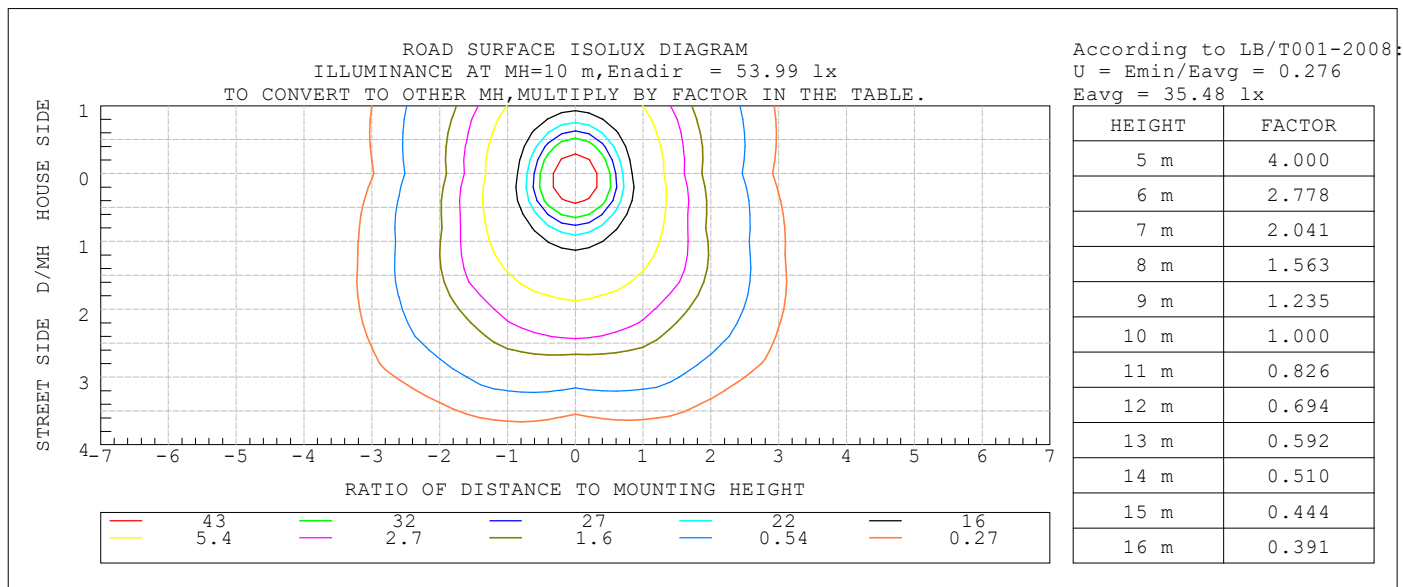
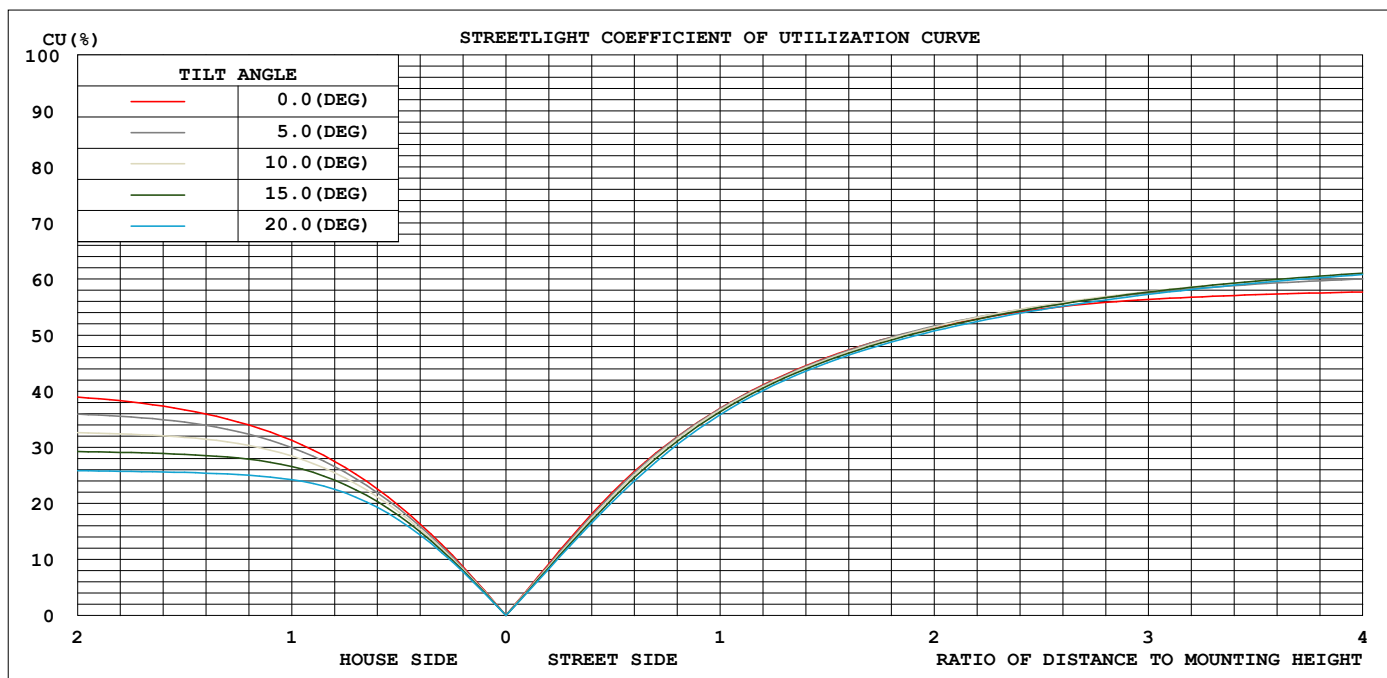
Classification:

IES:Type IV - Very Short
CIE:Broad - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:81.59cd/klm
Max.At90:0cd/klm
Max.80-90:81.59cd/klm
NRB 5101:Limited[8.2%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5677
90%	5110
80%	4542
70%	3974
60%	3406
50%	2839
40%	2271
30%	1703
20%	1135
10%	568
5%	284

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:120.36V I:0.9342A P:112.12W PF:1.0239 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16905.2x1 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:

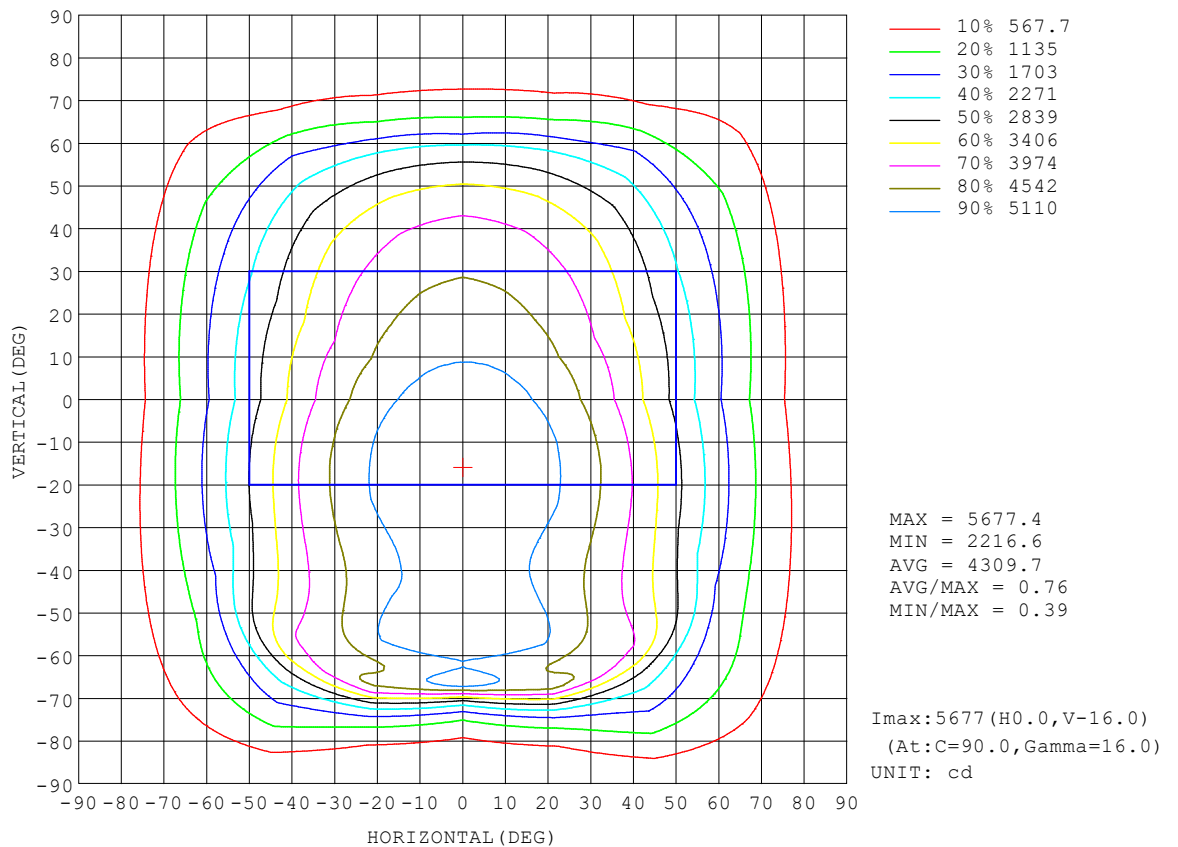
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	5297	5544	5636	5526	5272	5104	5063	5122	0- 10	512.0	512.0	3.03,3.03
20	4957	5477	5658	5444	4900	4712	4776	4740	10- 20	1474	1986	11.7,11.7
30	4385	5209	5466	5162	4315	4292	4501	4329	20- 30	2265	4251	25.1,25.1
40	3602	4766	5338	4702	3510	3787	4137	3836	30- 40	2800	7052	41.7,41.7
50	2682	4281	5511	4196	2583	3154	3443	3221	40- 50	3044	10096	59.7,59.7
60	1748	4036	5209	3955	1648	2282	2184	2374	50- 60	2967	13063	77.3,77.3
70	923.9	3080	3185	2882	847.8	1005	701.6	1150	60- 70	2422	15486	91.6,91.6
80	319.3	1379	502.6	1198	270.1	237.9	257.9	281.9	70- 80	1133	16618	98.3,98.3
90	0	0	0	0	0	0	0	0	80- 90	287.1	16905	100,100
100	0	0	0	0	0	0	0	0	90-100	0	16905	100,100
110	0	0	0	0	0	0	0	0	100-110	0	16905	100,100
120	0	0	0	0	0	0	0	0	110-120	0	16905	100,100
130	0	0	0	0	0	0	0	0	120-130	0	16905	100,100
140	0	0	0	0	0	0	0	0	130-140	0	16905	100,100
150	0	0	0	0	0	0	0	0	140-150	0	16905	100,100
160	0	0	0	0	0	0	0	0	150-160	0	16905	100,100
170	0	0	0	0	0	0	0	0	160-170	0	16905	100,100
180	0	0	0	0	0	0	0	0	170-180	0	16905	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

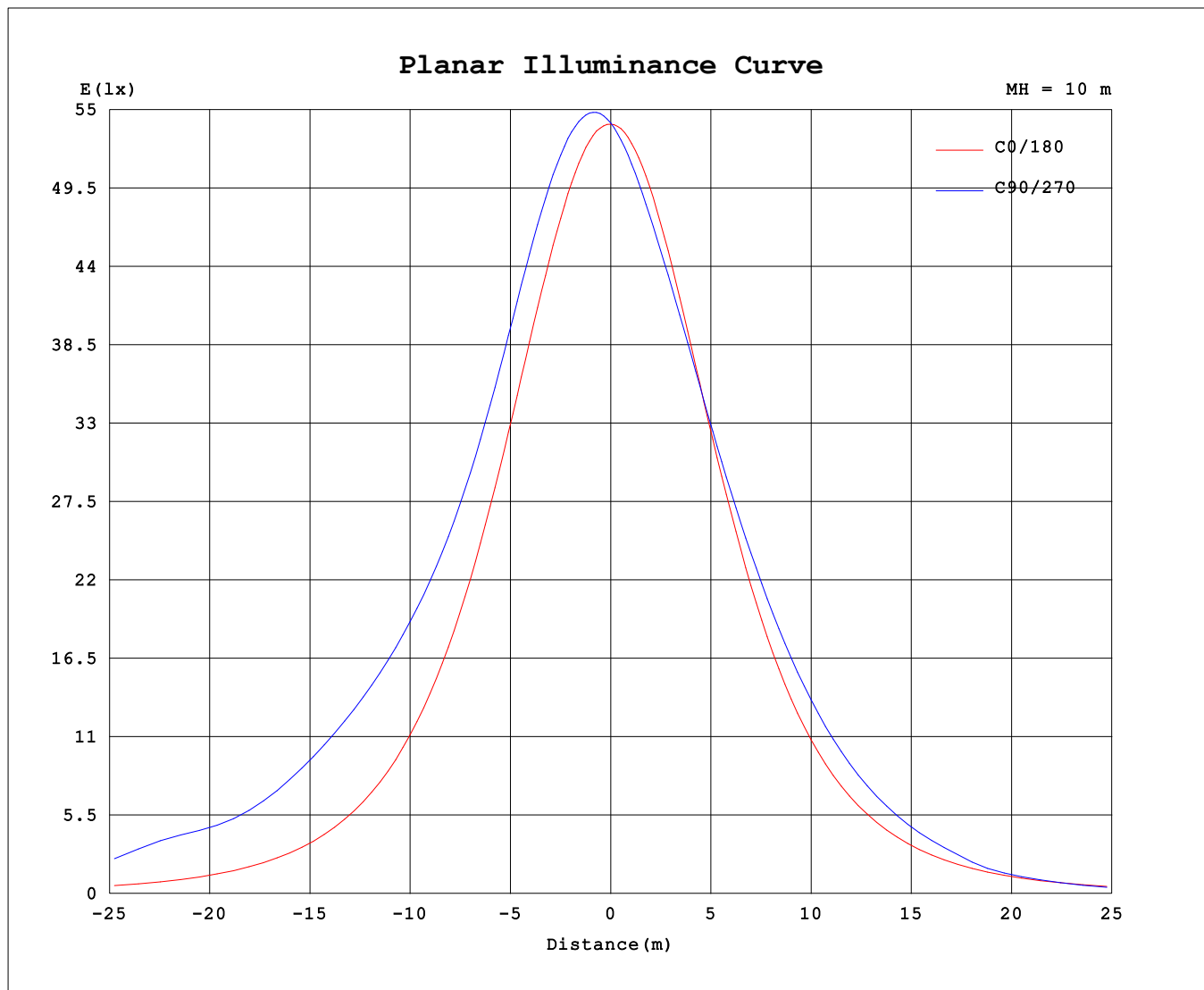
Test:U:120.36V I:0.9342A P:112.12W PF:1.0239 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16905.2x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:



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



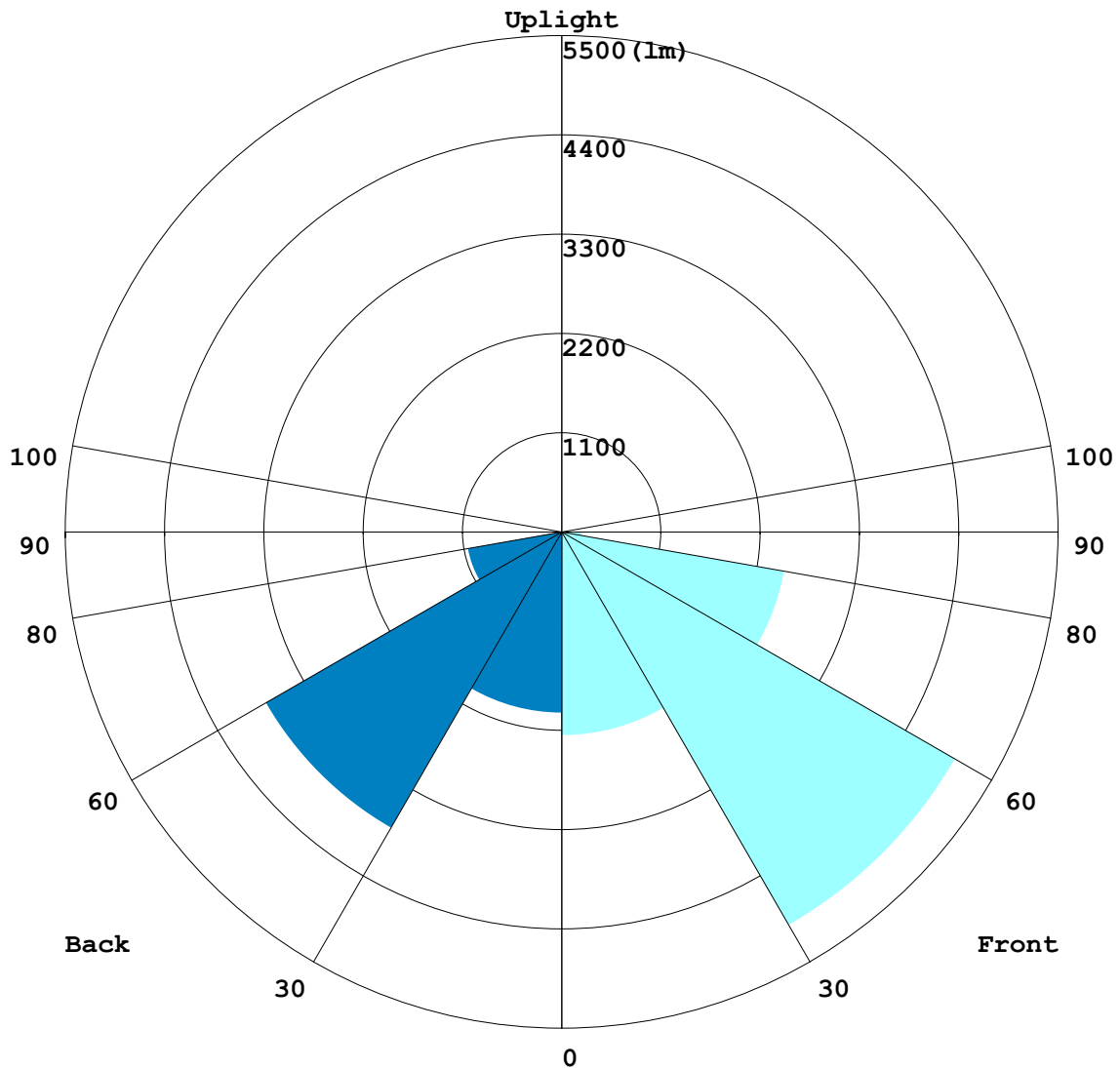
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 2026-07-02

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:120.36V I:0.9342A P:112.12W PF:1.0239 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16905.2x1 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:120.36V I:0.9342A P:112.12W PF:1.0239 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16905.2x1 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)	2250.3	13.3
FM - Front-Medium(30-60)	5027.8	29.7
FH - Front-High(60-80)	2501.1	14.8
FVH - Front-Very High(80-90)	215.13	1.3
Total Forward Light	9994.4	59.1

BL - Back-Low(0-30)	2001.2	11.8
BM - Back-Medium(30-60)	3784	22.4
BH - Back-High(60-80)	1053.7	6.2
BVH - Back-Very High(80-90)	71.925	0.4
Total Back Light	6910.8	40.9

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-G3
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6910.8	0	6910.8
Street Side	9994.4	0	9994.4

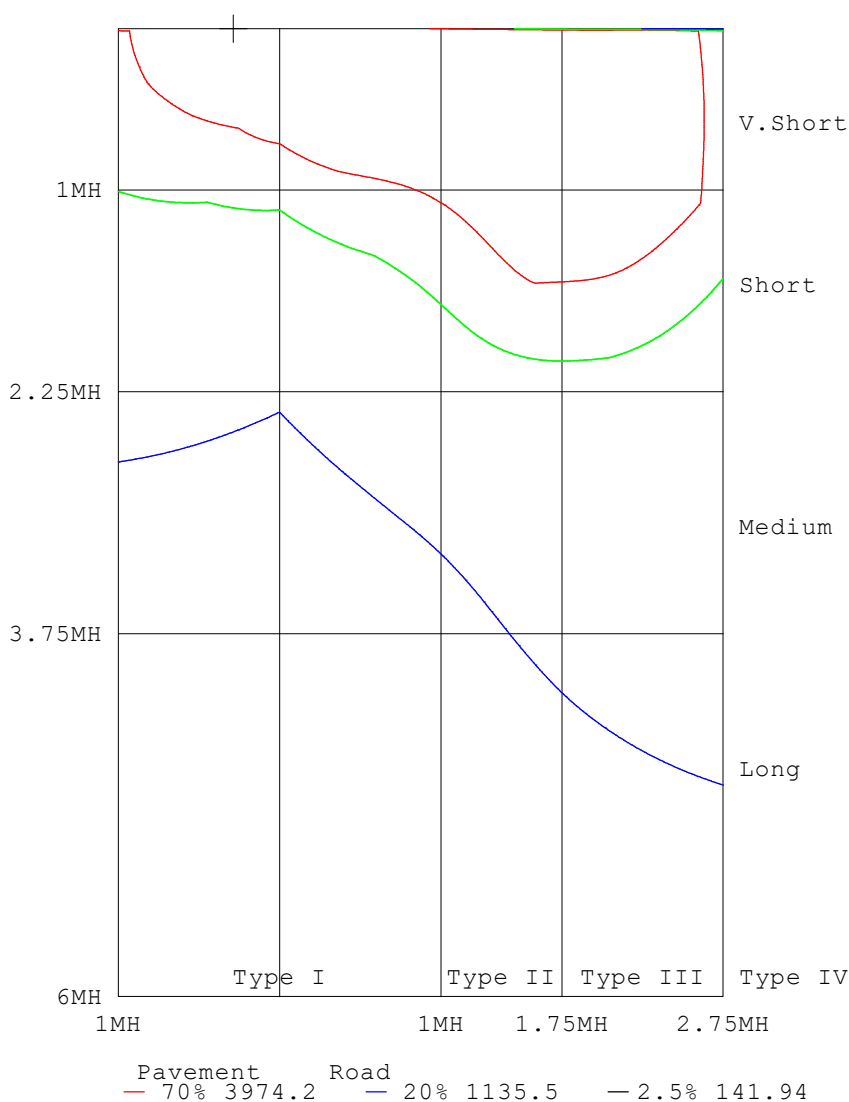
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

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:120.36V I:0.9342A P:112.12W PF:1.0239 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16905.2x1 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:120.36V I:0.9342A P:112.12W PF:1.0239 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16905.2x1 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	5399	5408	5409	5409	5407	5406	5408	5413	5399	5408	5409	5409	5407	5406	5408	5413			
5	5379	5443	5502	5535	5545	5527	5491	5439	5365	5313	5272	5247	5239	5250	5283	5333			
10	5297	5427	5544	5616	5636	5605	5526	5413	5272	5166	5104	5067	5063	5078	5122	5198			
15	5158	5361	5535	5645	5676	5630	5511	5329	5115	4968	4909	4902	4913	4914	4937	5015			
20	4957	5238	5477	5619	5658	5603	5444	5194	4900	4726	4712	4750	4776	4760	4740	4782			
25	4697	5063	5369	5538	5583	5516	5328	5006	4630	4450	4504	4595	4643	4608	4536	4515			
30	4385	4837	5209	5409	5466	5387	5162	4764	4315	4147	4292	4431	4501	4446	4329	4217			
35	4015	4564	5005	5266	5371	5239	4950	4480	3933	3819	4050	4249	4351	4268	4092	3889			
40	3602	4253	4766	5159	5338	5127	4702	4151	3510	3463	3787	4029	4137	4052	3836	3539			
45	3152	3880	4511	5126	5398	5087	4439	3760	3052	3088	3497	3741	3844	3771	3553	3172			
50	2682	3460	4281	5170	5511	5131	4196	3324	2583	2703	3154	3363	3443	3402	3221	2789			
55	2206	3002	4108	5235	5537	5196	4016	2849	2110	2307	2753	2868	2906	2919	2832	2399			
60	1748	2513	4036	5050	5209	4986	3955	2350	1648	1912	2282	2252	2184	2313	2374	2000			
65	1311	2017	4027	4498	5457	4457	3927	1844	1221	1520	1740	1344	1290	1411	1846	1612			
70	924	1551	3080	4225	3185	4076	2882	1376	848	1131	1005	713	702	755	1150	1222			
75	591	1222	2079	1914	1162	1834	1892	1061	528	754	487	436	438	466	557	840			
80	319	934	1379	795	503	763	1198	747	270	341	238	243	258	257	282	444			
85	120	490	668	311	212	289	549	359	87.5	103	106	134	144	144	126	151			
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: