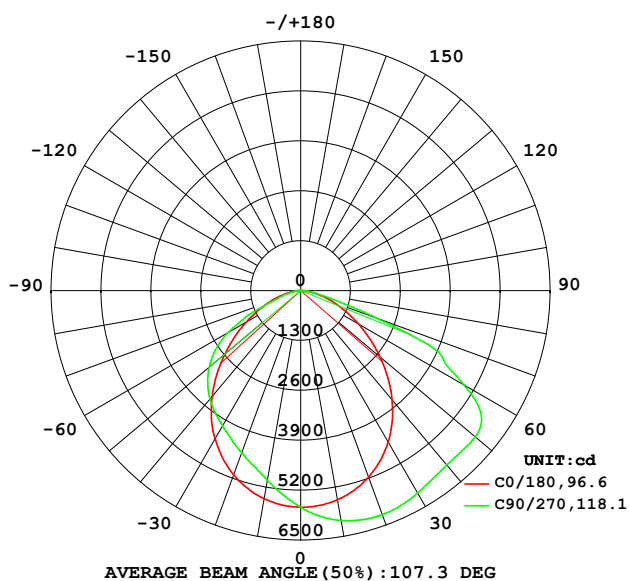
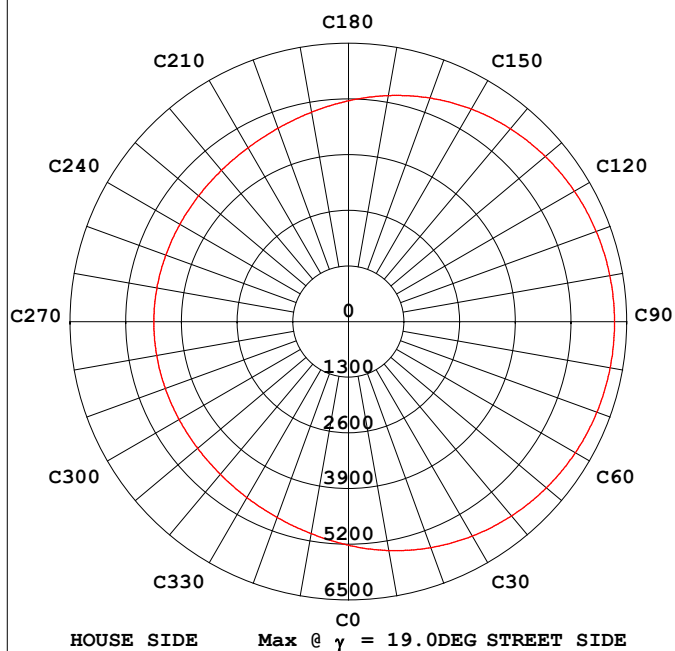


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.34V I:0.9345A P:112.13W PF:1.0238 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17029.8x1 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: 151.87 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	6212	η street_up (%)	0.0
NOMINAL POWER (W)	120	LOR (%)	100.0	η street_down (%)	61.7
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	17030	η house_up (%)	0.0
NOMINAL FLUX (lm)	17029.8	MAXIMUM @ (C, γ)	90, 19.0	η house_down (%)	38.3
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	100.0	SLI	

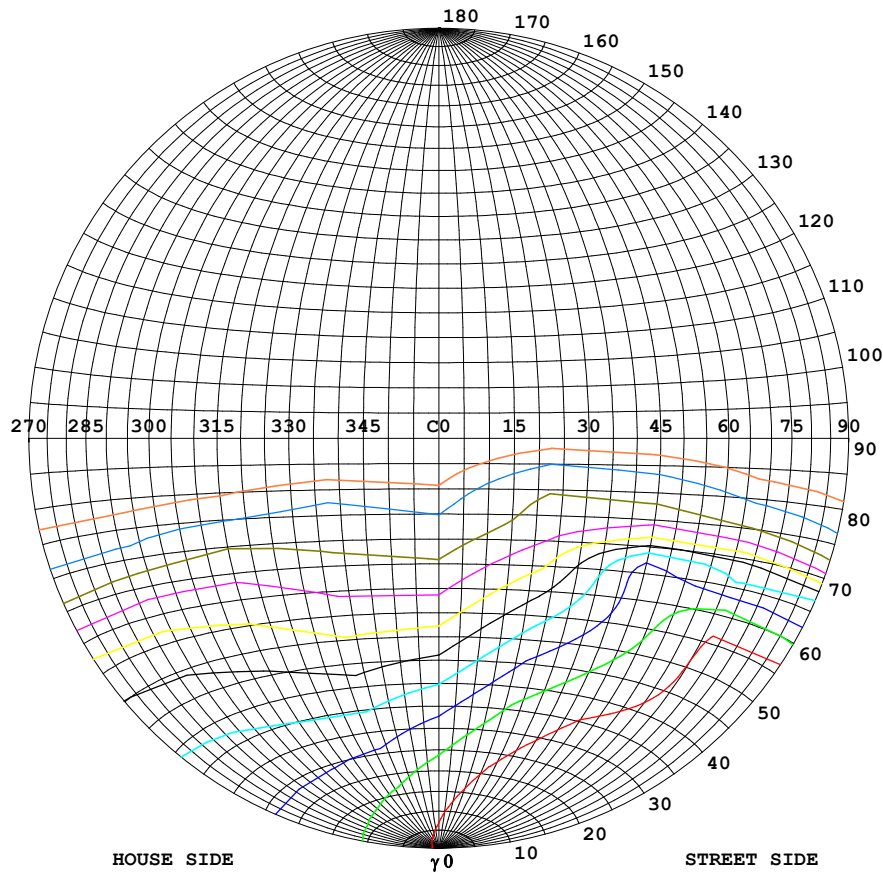
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:120.34V I:0.9345A P:112.13W PF:1.0238 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17029.8x1 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:



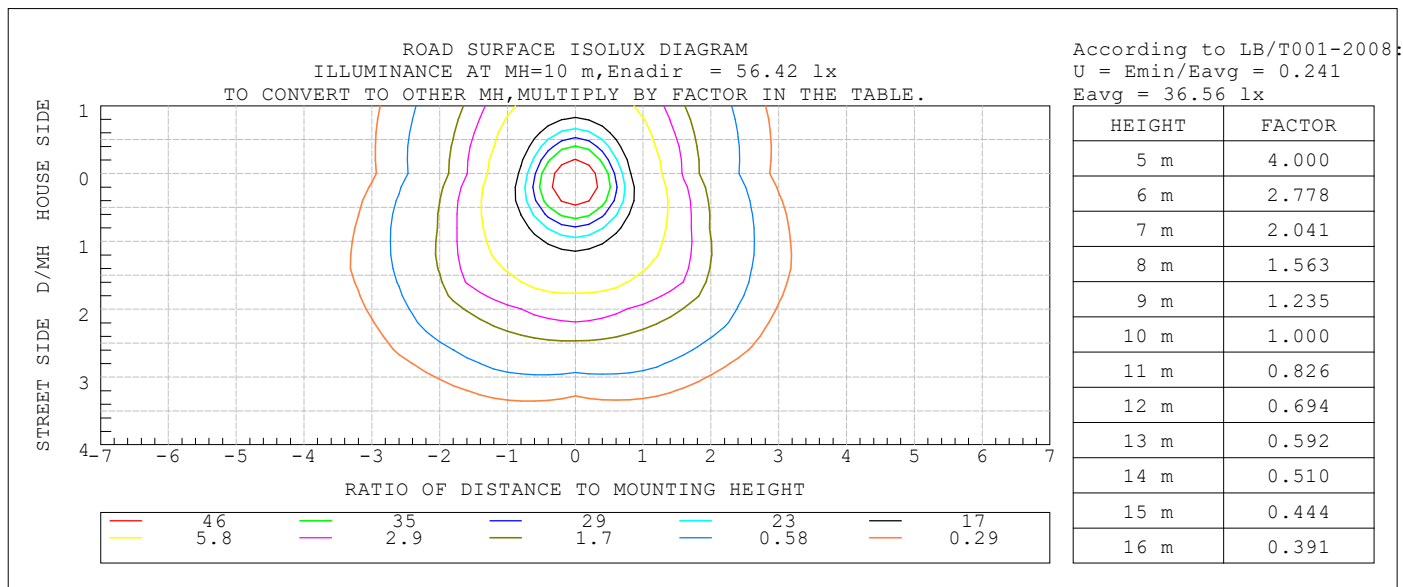
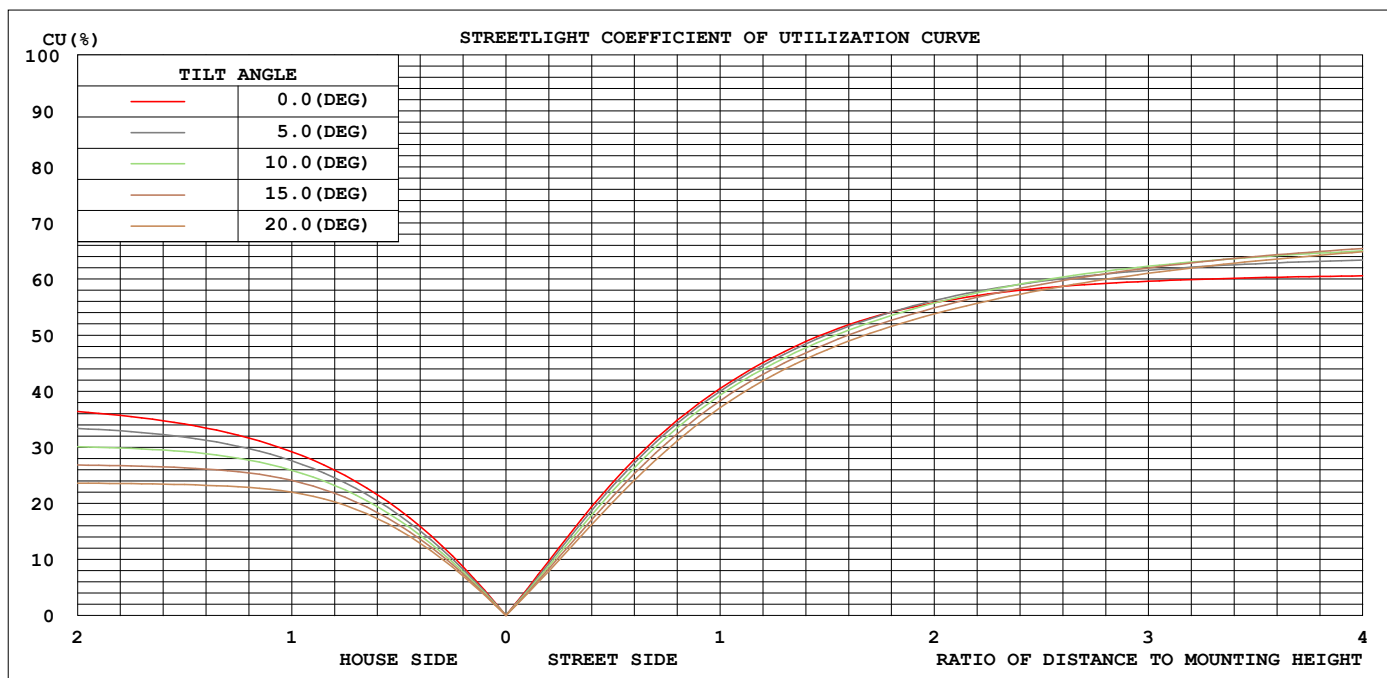
Classification:

IES:Type III - Very Short
CIE:Broad - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:68.55cd/klm
Max.At90:0cd/klm
Max.80-90:68.55cd/klm
NRB 5101:Limited[8.2%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6212
90%	5591
80%	4970
70%	4349
60%	3727
50%	3106
40%	2485
30%	1864
20%	1242
10%	621
5%	311

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:120.34V I:0.9345A P:112.13W PF:1.0238 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17029.8x1 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:

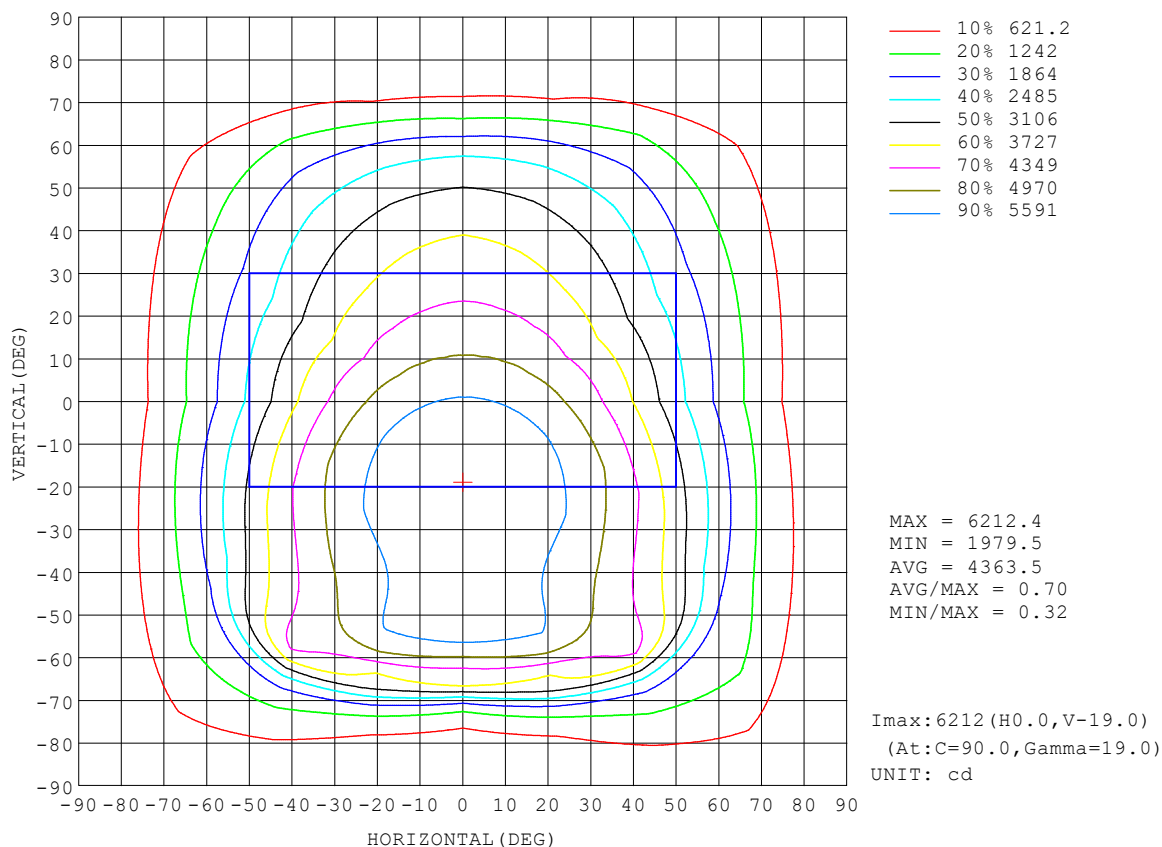
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	5533	5942	6079	5915	5504	5136	5018	5156	0- 10	533.6	533.6	3.13,3.13
20	5172	5978	6212	5939	5109	4533	4500	4569	10- 20	1527	2061	12.1,12.1
30	4558	5784	6090	5732	4461	3965	4073	4008	20- 30	2333	4394	25.8,25.8
40	3706	5381	5929	5312	3591	3389	3680	3438	30- 40	2869	7263	42.6,42.6
50	2706	4879	5931	4788	2588	2783	3115	2843	40- 50	3113	10376	60.9,60.9
60	1742	4610	4917	4538	1634	2061	2187	2133	50- 60	3039	13415	78.8,78.8
70	932.9	3214	2107	2964	855.3	1086	712.9	1196	60- 70	2358	15773	92.6,92.6
80	340.2	985.8	364.7	866.9	286.7	233.6	224.0	282.2	70- 80	1001	16774	98.5,98.5
90	0	0	0	0	0	0	0	0	80- 90	255.9	17030	100,100
100	0	0	0	0	0	0	0	0	90-100	0	17030	100,100
110	0	0	0	0	0	0	0	0	100-110	0	17030	100,100
120	0	0	0	0	0	0	0	0	110-120	0	17030	100,100
130	0	0	0	0	0	0	0	0	120-130	0	17030	100,100
140	0	0	0	0	0	0	0	0	130-140	0	17030	100,100
150	0	0	0	0	0	0	0	0	140-150	0	17030	100,100
160	0	0	0	0	0	0	0	0	150-160	0	17030	100,100
170	0	0	0	0	0	0	0	0	160-170	0	17030	100,100
180	0	0	0	0	0	0	0	0	170-180	0	17030	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

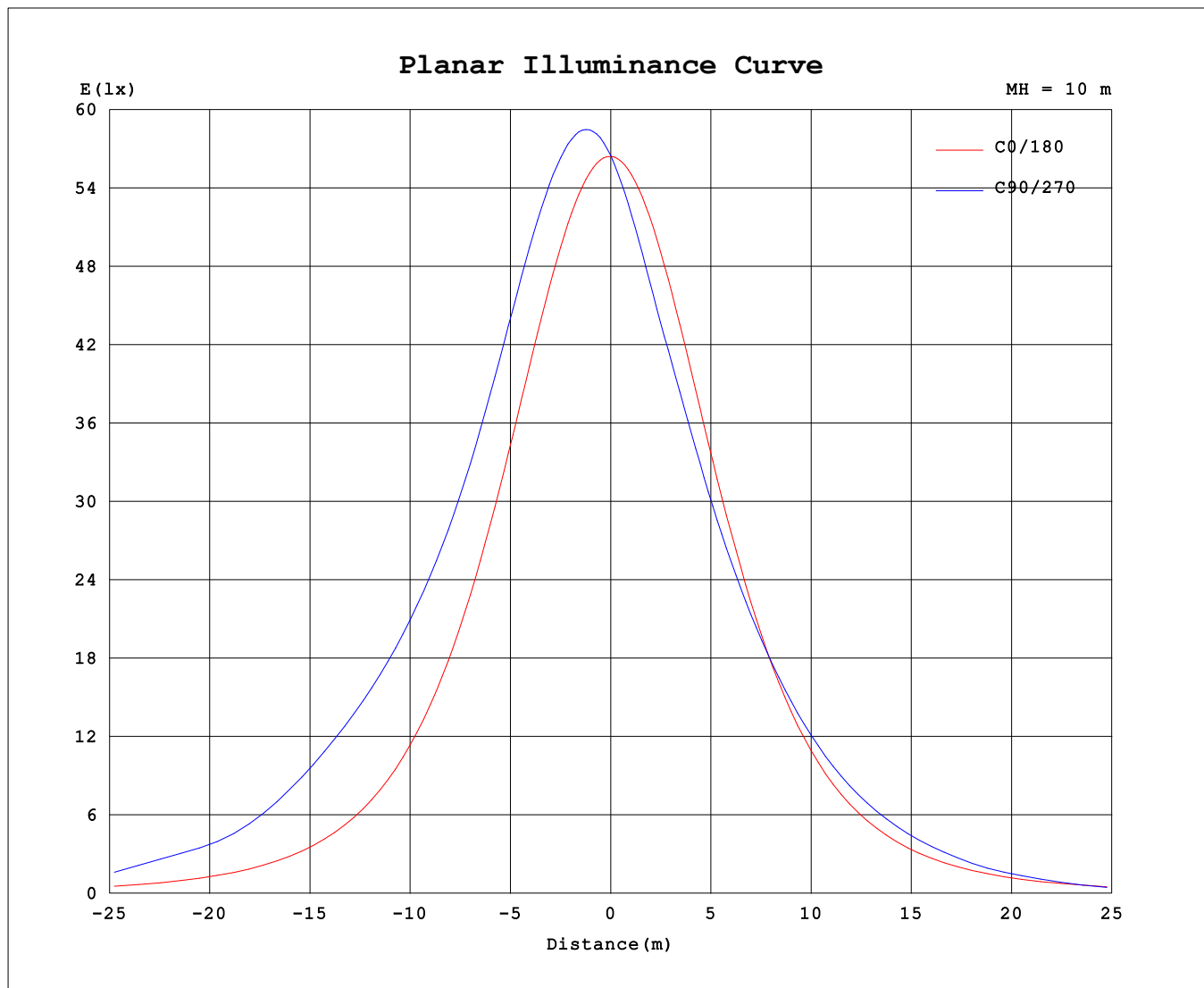
Test:U:120.34V I:0.9345A P:112.13W PF:1.0238 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17029.8x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 4000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:



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



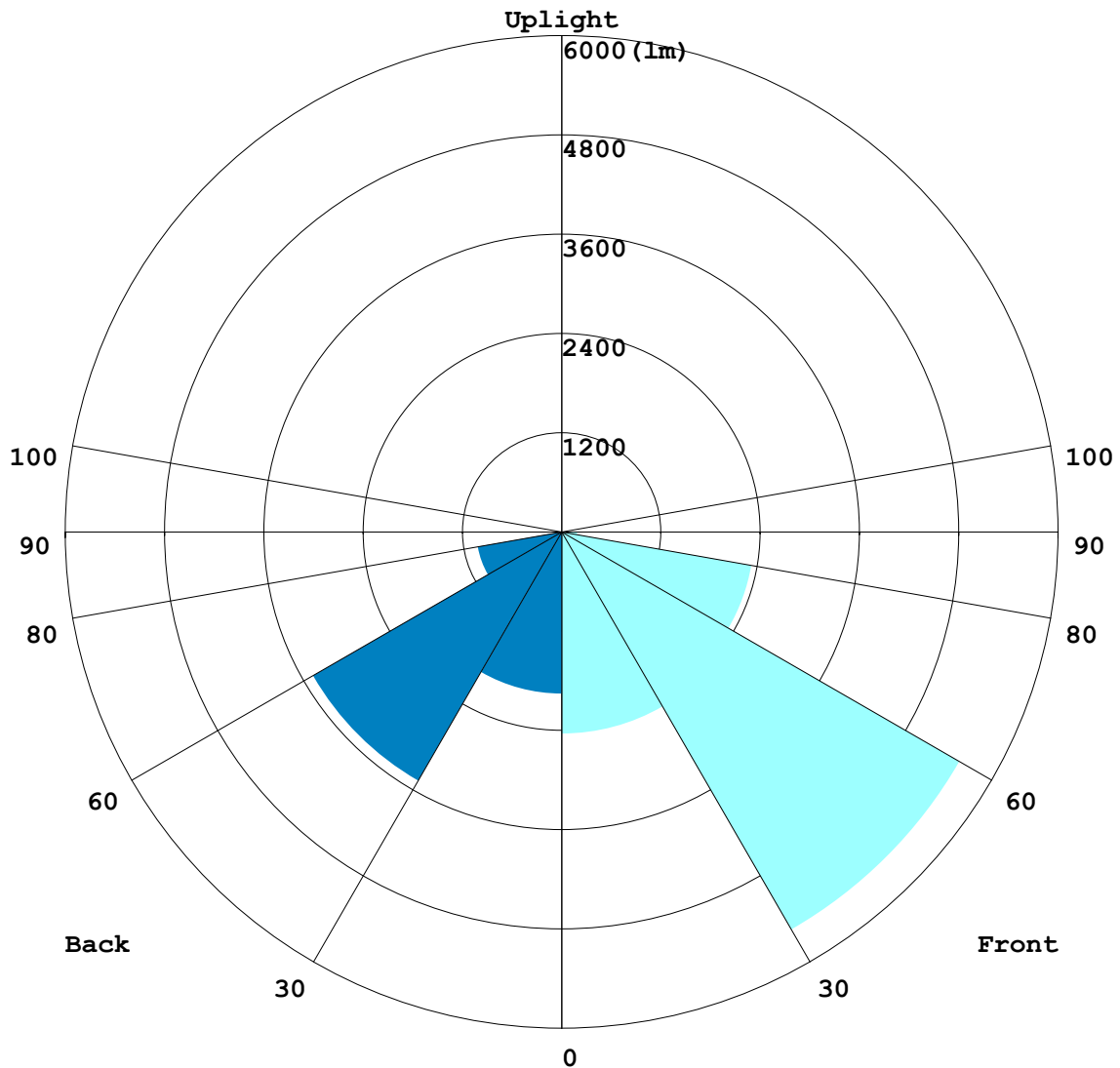
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 2026-07-02

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:120.34V I:0.9345A P:112.13W PF:1.0238 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17029.8x1 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:120.34V I:0.9345A P:112.13W PF:1.0238 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17029.8x1 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)	2438.4	14.3
FM - Front-Medium(30-60)	5551.2	32.6
FH - Front-High(60-80)	2327.5	13.7
FVH - Front-Very High(80-90)	187.64	1.1
Total Forward Light	10505	61.7

BL - Back-Low(0-30)	1955.3	11.5
BM - Back-Medium(30-60)	3470.3	20.4
BH - Back-High(60-80)	1031.2	6.1
BVH - Back-Very High(80-90)	68.287	0.4
Total Back Light	6525.2	38.3

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	6525.2	0	6525.2
Street Side	10505	0	10505

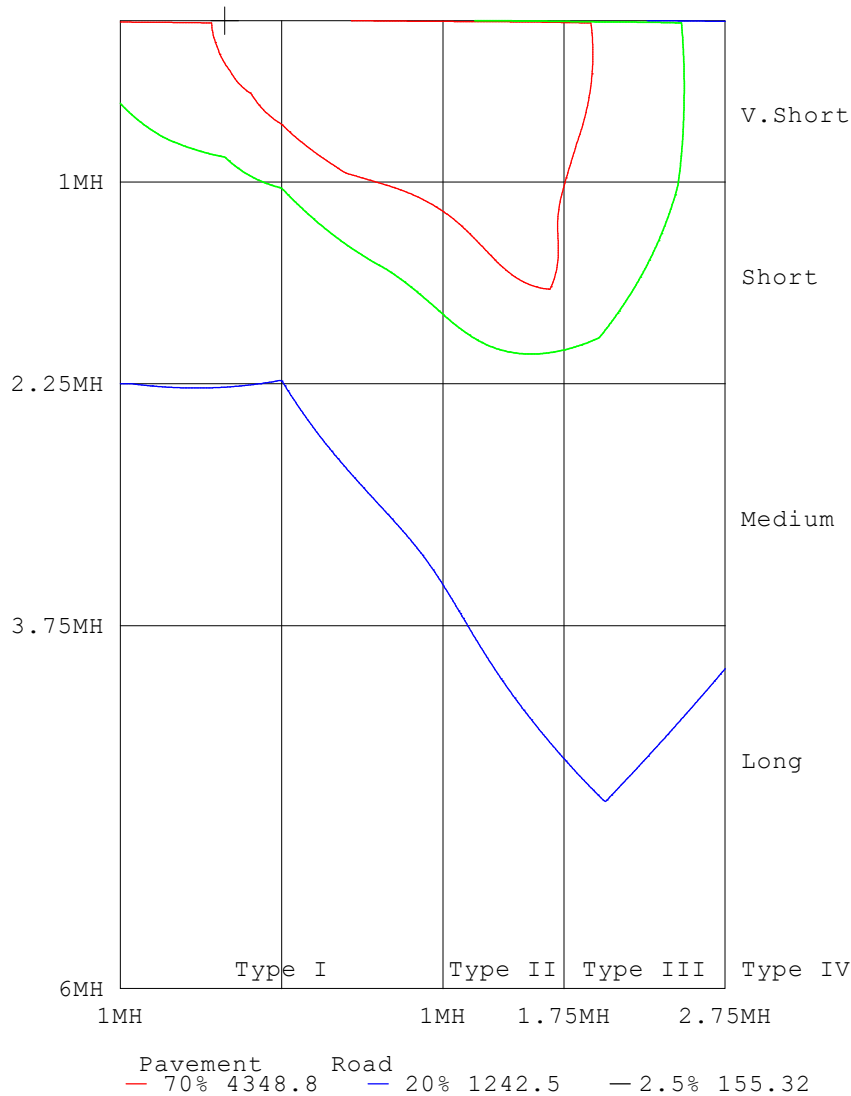
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

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:120.34V I:0.9345A P:112.13W PF:1.0238 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17029.8x1 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:120.34V I:0.9345A P:112.13W PF:1.0238 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:17029.8x1 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	5642	5648	5652	5645	5649	5643	5648	5650	5642	5648	5652	5645	5649	5643	5648	5650			
5	5619	5735	5830	5884	5900	5874	5814	5722	5605	5502	5418	5354	5341	5358	5424	5515			
10	5533	5762	5942	6048	6079	6032	5915	5733	5504	5293	5136	5036	5018	5048	5156	5326			
15	5383	5726	5988	6139	6181	6122	5959	5687	5338	5024	4828	4742	4733	4756	4860	5073			
20	5172	5636	5978	6163	6212	6147	5939	5582	5109	4710	4533	4496	4500	4509	4569	4771			
25	4896	5491	5908	6121	6177	6104	5864	5422	4815	4358	4265	4246	4278	4262	4301	4429			
30	4558	5293	5784	6023	6090	6000	5732	5209	4461	3991	3965	4011	4073	4030	4008	4068			
35	4158	5044	5607	5893	5989	5864	5545	4942	4057	3612	3671	3796	3885	3819	3718	3691			
40	3706	4739	5381	5772	5929	5735	5312	4621	3591	3219	3389	3578	3680	3601	3438	3302			
45	3215	4387	5127	5703	5925	5661	5048	4255	3094	2827	3099	3319	3428	3346	3153	2910			
50	2706	3976	4879	5685	5931	5645	4788	3817	2588	2443	2783	3011	3115	3040	2843	2524			
55	2206	3507	4685	5644	5754	5606	4590	3332	2097	2061	2439	2635	2716	2671	2503	2145			
60	1742	2988	4610	5182	4917	5104	4538	2799	1634	1702	2061	2169	2187	2215	2133	1785			
65	1310	2432	4610	3871	4070	3787	4516	2226	1218	1348	1637	1512	1475	1568	1718	1426			
70	933	1864	3214	2871	2107	2724	2964	1658	855	1015	1086	752	713	808	1196	1089			
75	611	1478	1668	1271	800	1218	1516	1290	545	698	508	427	418	456	595	770			
80	340	1167	986	549	365	526	867	937	287	356	234	216	224	229	282	446			
85	130	617	464	223	159	207	383	450	93.0	106	95.9	114	121	124	116	156			
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: