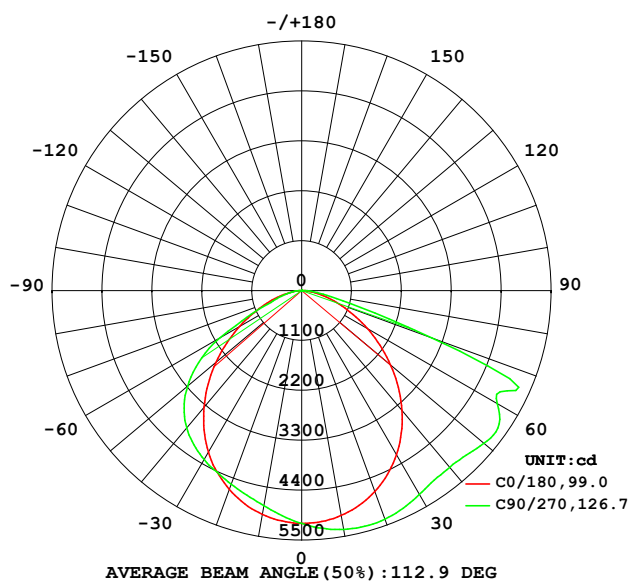
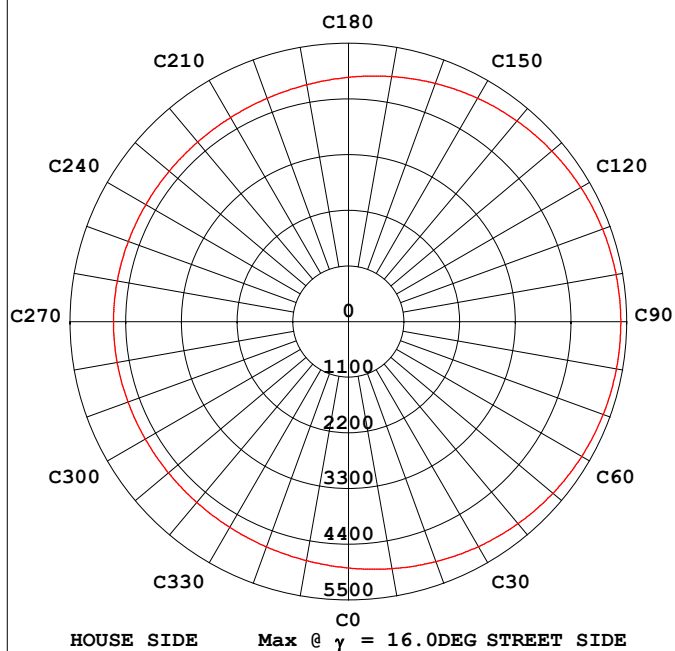


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.36V I:0.9822A P:117.88W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16119x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 5000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.74 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	5380	η street_up (%)	0.0
NOMINAL POWER (W)	120	LOR (%)	100.0	η street_down (%)	59.1
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	16119	η house_up (%)	0.0
NOMINAL FLUX (lm)	16119	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	

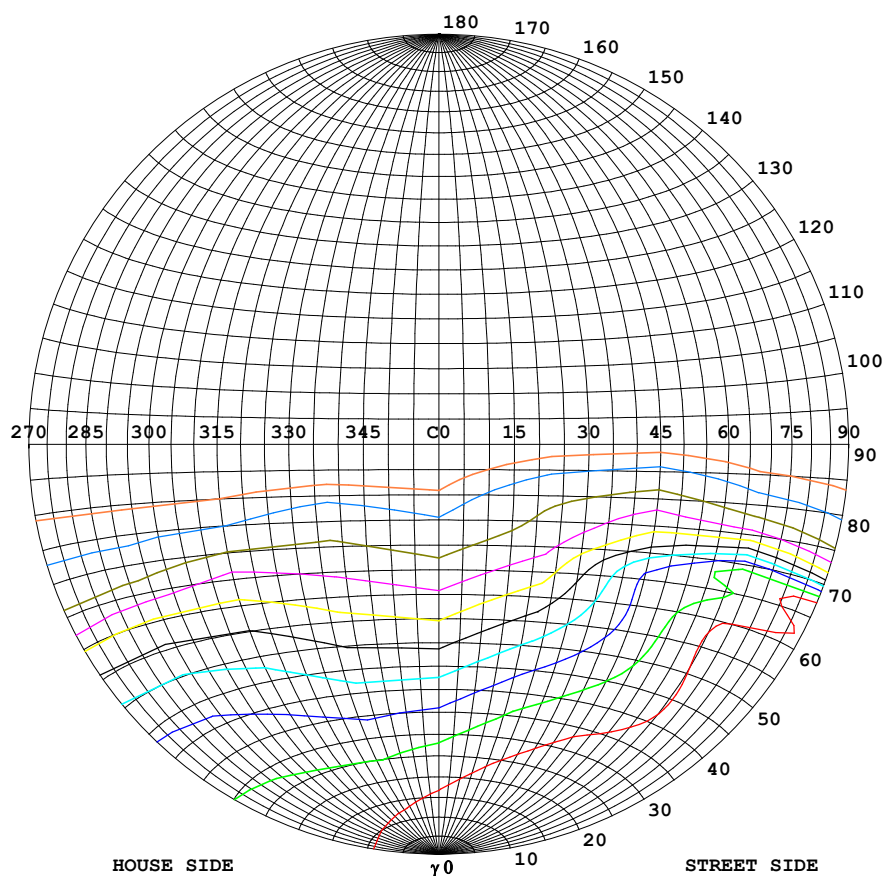
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °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:120.36V I:0.9822A P:117.88W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16119x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 5000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:



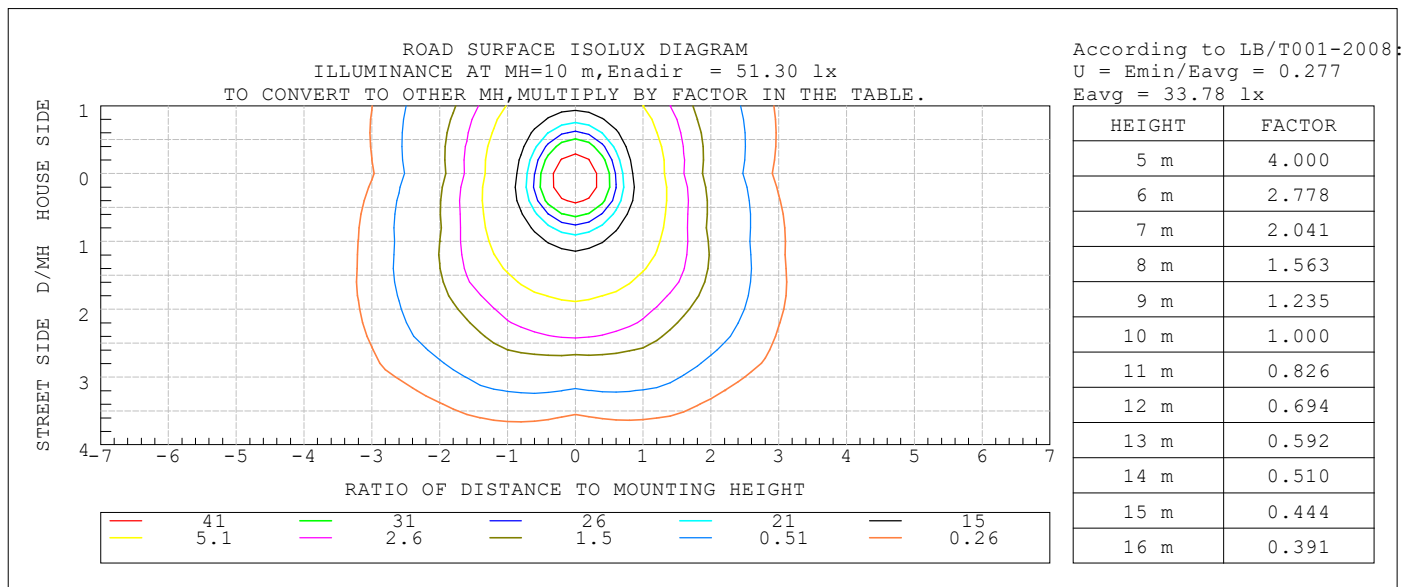
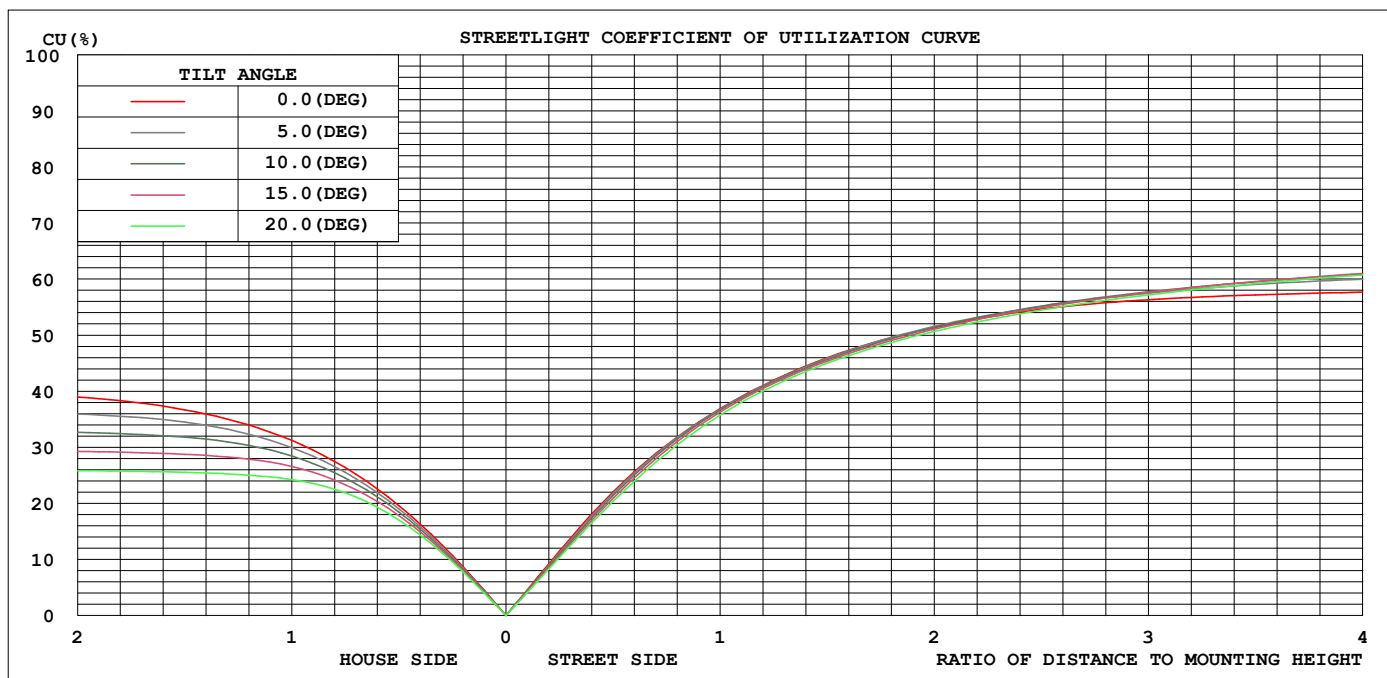
Classification:

IES:Type IV - Very Short
CIE:Broad - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:81.86cd/klm
Max.At90:0cd/klm
Max.80-90:81.86cd/klm
NRB 5101:Limited[8.2%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5380
90%	4842
80%	4304
70%	3766
60%	3228
50%	2690
40%	2152
30%	1614
20%	1076
10%	538
5%	269

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:0.9822A P:117.88W PF:1.0236 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16119x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 5000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:

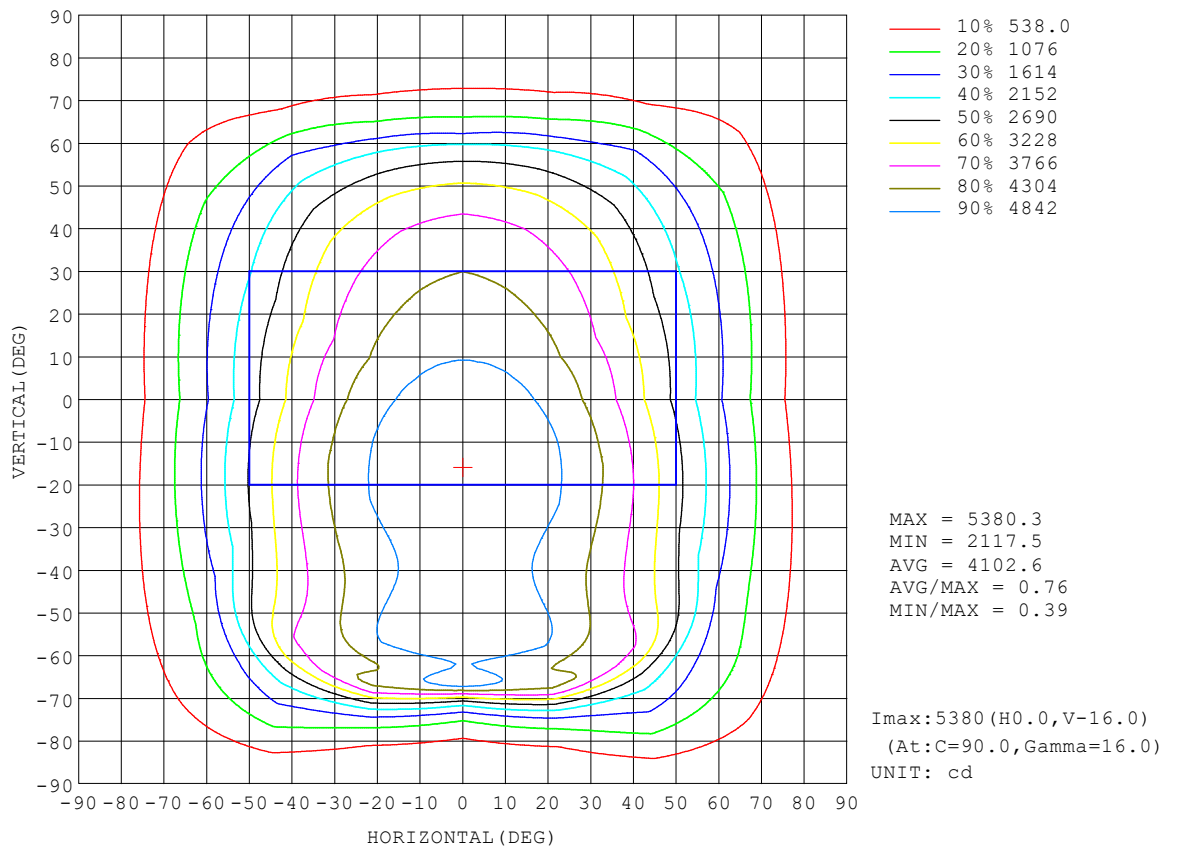
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	5031	5256	5342	5239	5009	4851	4813	4866	0- 10	486.1	486.1	3.02,3.02
20	4713	5195	5362	5163	4667	4482	4543	4507	10- 20	1400	1886	11.7,11.7
30	4180	4948	5188	4901	4114	4087	4301	4119	20- 30	2154	4040	25.1,25.1
40	3441	4535	5083	4471	3350	3613	3946	3660	30- 40	2666	6706	41.6,41.6
50	2568	4086	5243	3998	2470	3011	3286	3075	40- 50	2902	9609	59.6,59.6
60	1677	3864	4979	3776	1577	2177	2092	2266	50- 60	2833	12441	77.2,77.2
70	885.1	2963	3055	2770	811.5	961.5	674.2	1100	60- 70	2315	14757	91.5,91.5
80	305.7	1320	484.0	1146	259.1	227.1	248.8	268.6	70- 80	1087	15844	98.3,98.3
90	0	0	0	0	0	0	0	0	80- 90	275.4	16119	100,100
100	0	0	0	0	0	0	0	0	90-100	0	16119	100,100
110	0	0	0	0	0	0	0	0	100-110	0	16119	100,100
120	0	0	0	0	0	0	0	0	110-120	0	16119	100,100
130	0	0	0	0	0	0	0	0	120-130	0	16119	100,100
140	0	0	0	0	0	0	0	0	130-140	0	16119	100,100
150	0	0	0	0	0	0	0	0	140-150	0	16119	100,100
160	0	0	0	0	0	0	0	0	150-160	0	16119	100,100
170	0	0	0	0	0	0	0	0	160-170	0	16119	100,100
180	0	0	0	0	0	0	0	0	170-180	0	16119	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

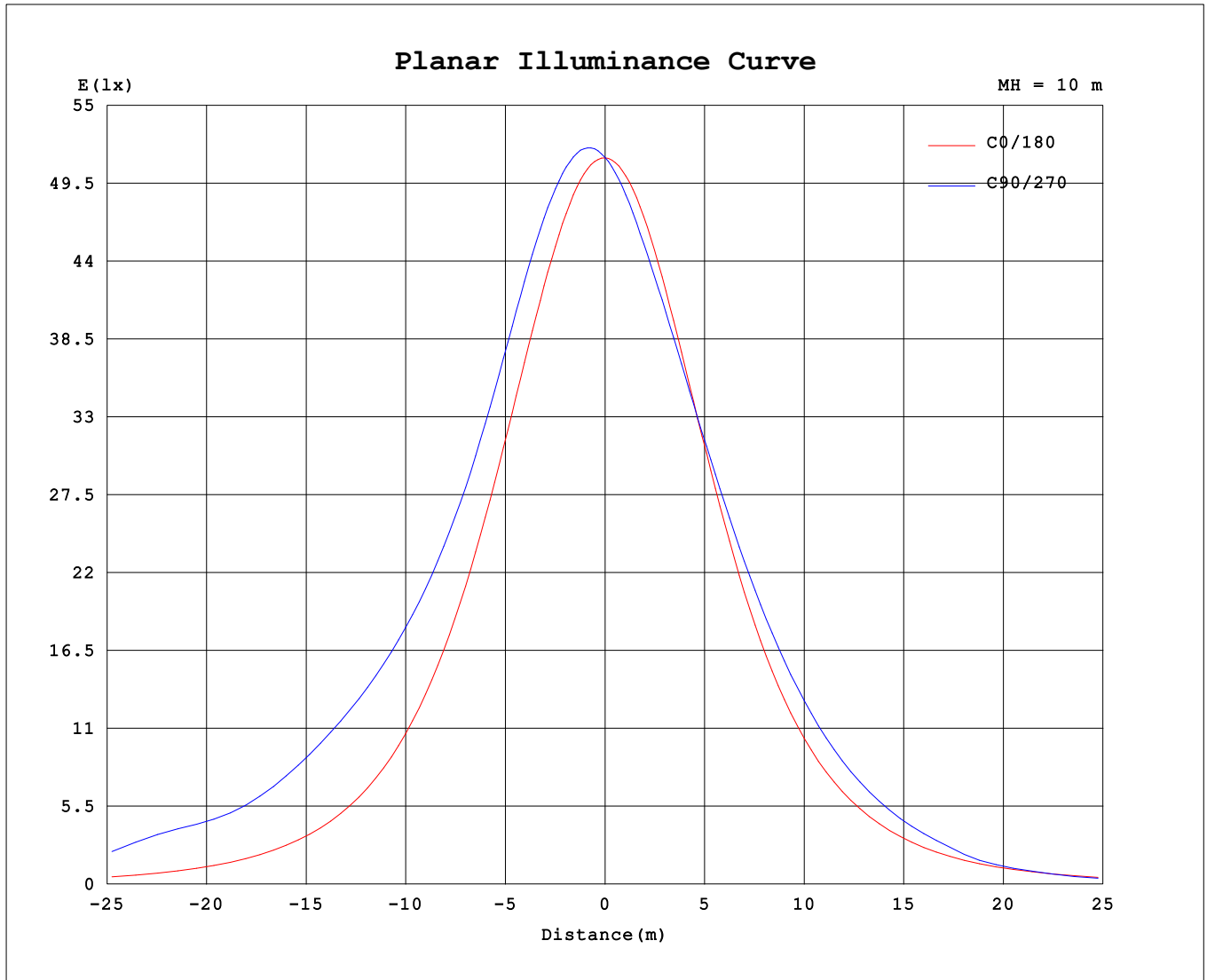
Test:U:120.36V I:0.9822A P:117.88W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16119x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 5000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:



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



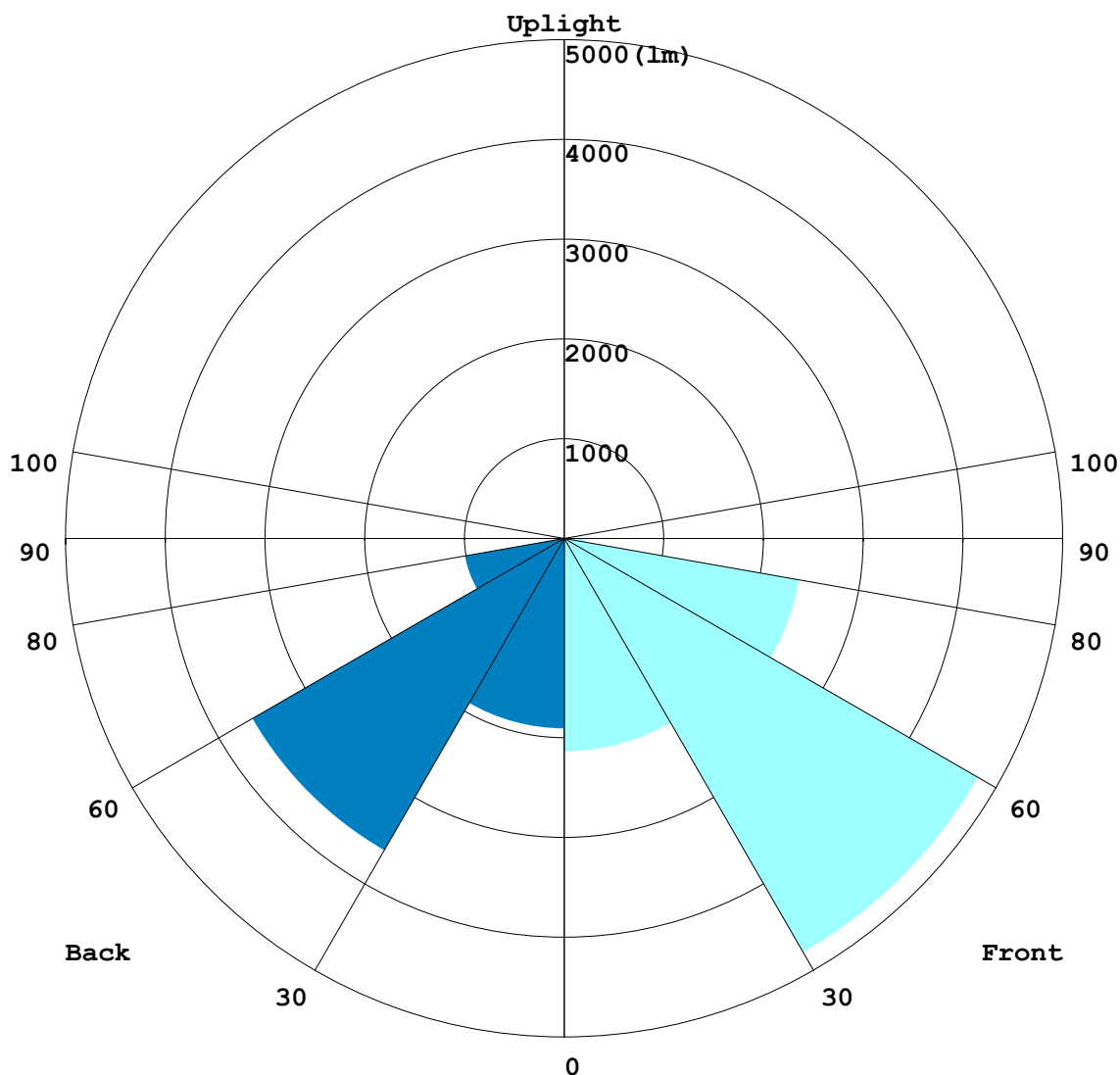
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: DAMIN
 Test Date: 2026-07-02

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:120.36V I:0.9822A P:117.88W PF:1.0236 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16119x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 5000K	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:0.9822A P:117.88W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16119x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 5000K	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)	2135.3	13.2
FM - Front-Medium(30-60)	4790.9	29.7
FH - Front-High(60-80)	2394.3	14.9
FVH - Front-Very High(80-90)	206.39	1.3
Total Forward Light	9526.9	59.1

BL - Back-Low(0-30)	1904.3	11.8
BM - Back-Medium(30-60)	3610.8	22.4
BH - Back-High(60-80)	1007.9	6.3
BVH - Back-Very High(80-90)	68.972	0.4
Total Back Light	6592.1	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	6592.1	0	6592.1
Street Side	9526.9	0	9526.9

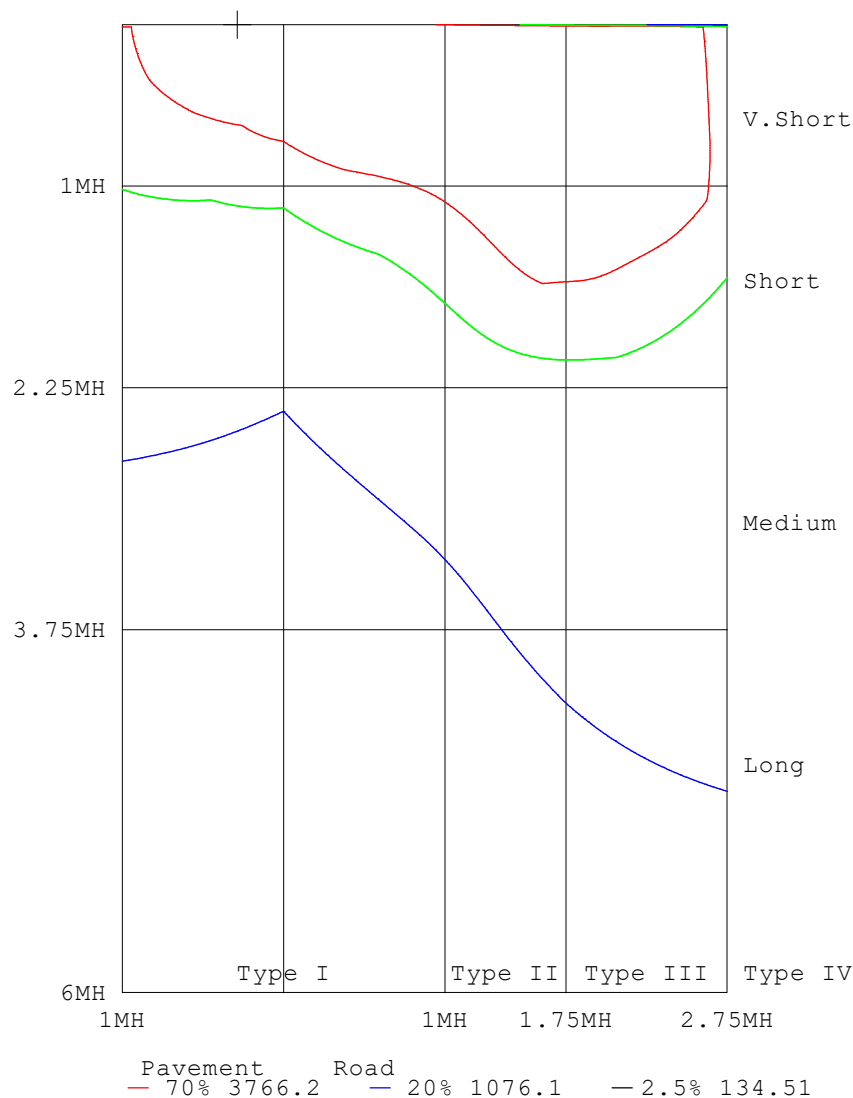
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

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:0.9822A P:117.88W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16119x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 5000K	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:0.9822A P:117.88W PF:1.0236 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:16119x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 5000K	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	5130	5133	5139	5135	5132	5129	5130	5134	5130	5133	5139	5135	5132	5129	5130	5134			
5	5110	5172	5223	5251	5259	5239	5207	5161	5096	5049	5012	4984	4981	4986	5015	5058			
10	5031	5155	5256	5323	5342	5311	5239	5136	5009	4911	4851	4819	4813	4823	4866	4936			
15	4899	5086	5251	5351	5379	5336	5225	5058	4866	4730	4667	4661	4671	4669	4692	4763			
20	4713	4971	5195	5328	5362	5308	5163	4927	4667	4500	4482	4517	4543	4526	4507	4550			
25	4473	4810	5096	5249	5292	5228	5053	4751	4412	4239	4300	4373	4418	4385	4328	4297			
30	4180	4603	4948	5133	5188	5110	4901	4527	4114	3953	4087	4218	4301	4236	4119	4015			
35	3833	4355	4759	5002	5098	4975	4703	4271	3751	3640	3860	4048	4147	4068	3900	3708			
40	3441	4057	4535	4908	5083	4872	4471	3951	3350	3304	3613	3842	3946	3863	3660	3375			
45	3014	3706	4299	4879	5133	4841	4225	3584	2917	2947	3338	3566	3667	3597	3391	3025			
50	2568	3308	4086	4922	5243	4884	3998	3173	2470	2581	3011	3205	3286	3245	3075	2665			
55	2112	2873	3923	4989	5277	4945	3832	2724	2018	2203	2628	2737	2778	2787	2703	2293			
60	1677	2411	3864	4824	4979	4753	3776	2247	1577	1832	2177	2150	2092	2212	2266	1919			
65	1258	1939	3848	4312	5206	4275	3736	1765	1170	1453	1663	1286	1235	1352	1763	1542			
70	885	1494	2963	4068	3055	3862	2770	1319	812	1080	961	683	674	725	1100	1168			
75	566	1184	1997	1843	1125	1765	1815	1022	505	718	465	418	424	447	533	803			
80	306	902	1320	770	484	738	1146	718	259	325	227	233	249	247	269	424			
85	115	471	636	301	206	279	524	343	83.9	98.5	102	128	139	139	121	144			
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: