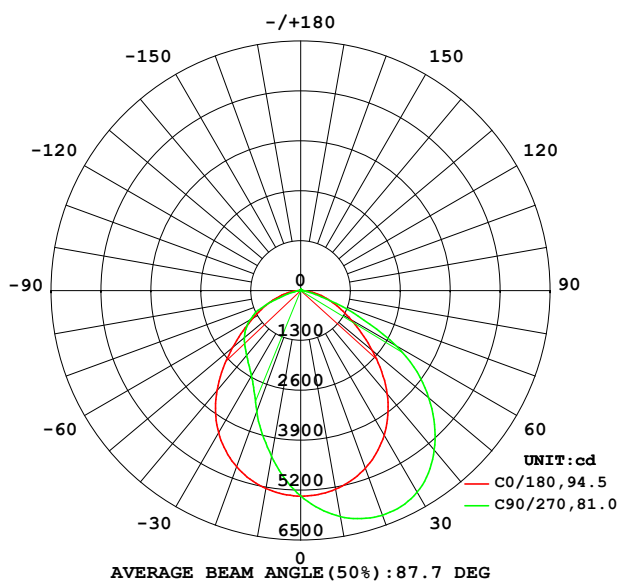
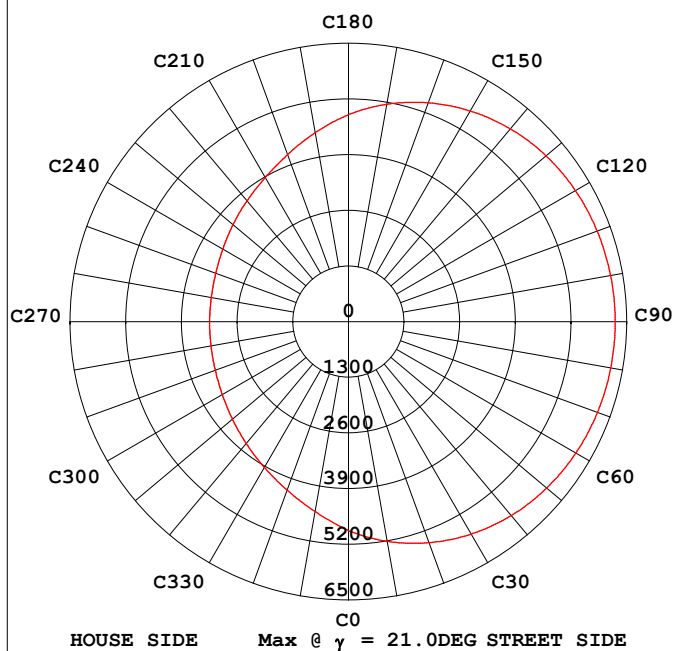


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.78V I:0.8227A P:98.299W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14116.3x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 143.61 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax(cd)	6228	η street_up(%)	0.2
NOMINAL POWER(W)	100	LOR(%)	100.0	η street_down(%)	65.4
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	14116	η house_up(%)	0.4
NOMINAL FLUX(lm)	14116.3	MAXIMUM @ (C, γ)	90,21.0	η house_down(%)	34.0
LAMPS INSIDE	1	η up(%)	0.6	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	120	η down(%)	99.4	SLI	

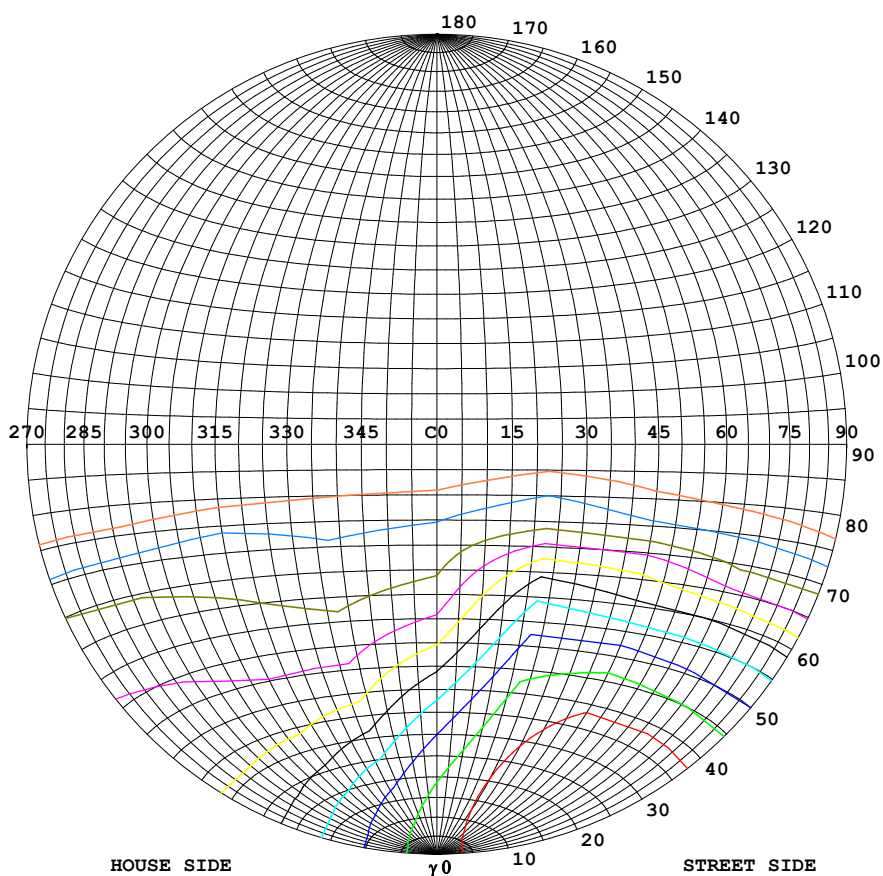
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:8.440m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.78V I:0.8227A P:98.299W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14116.3x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



Classification:

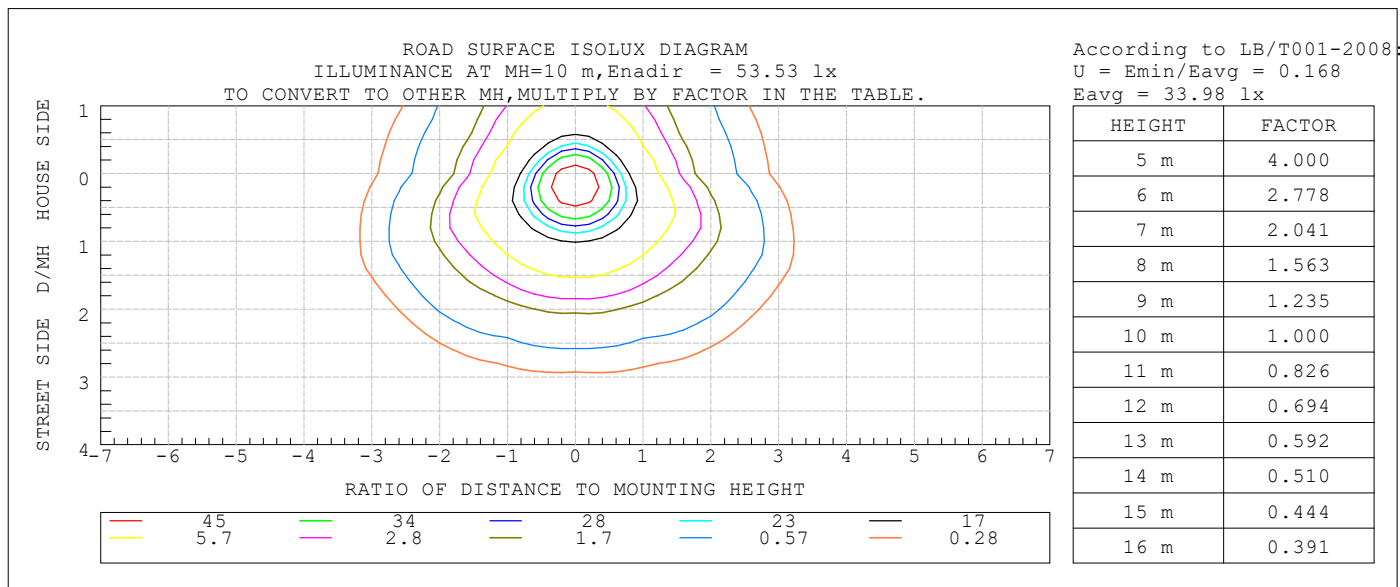
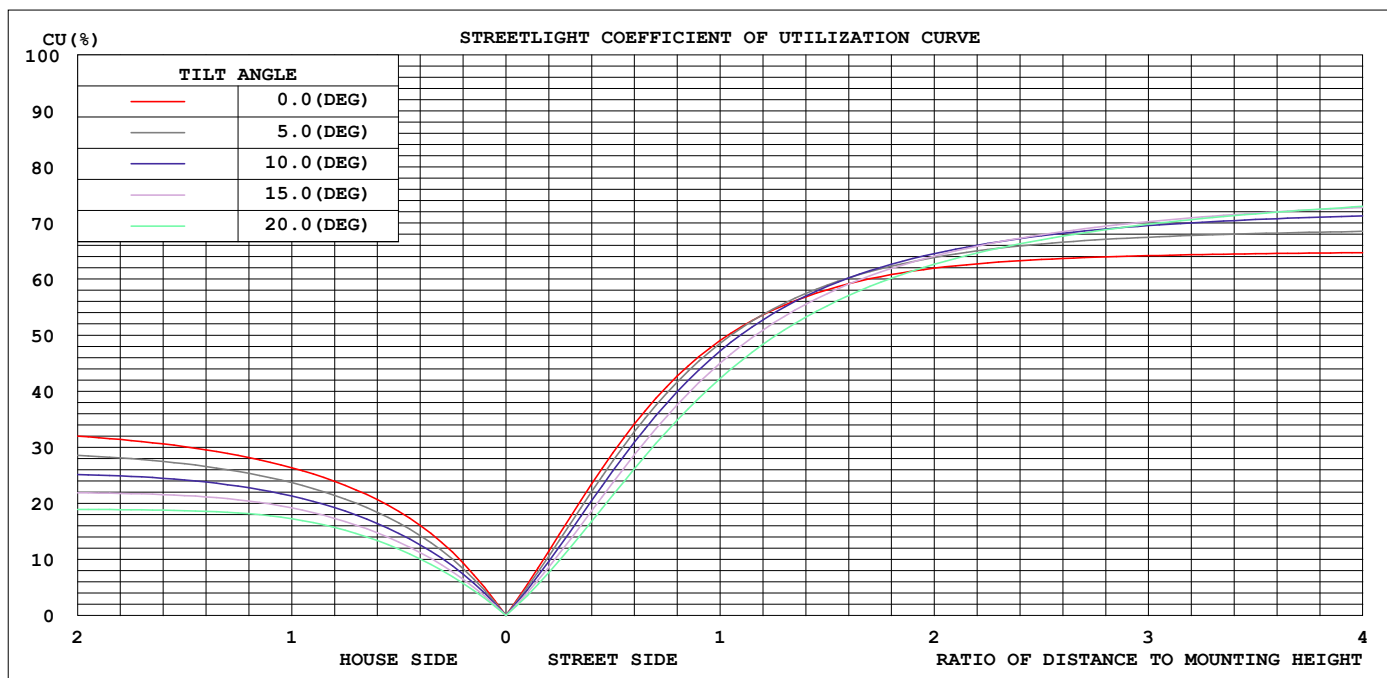
IES:Type II - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:44.15cd/klm
Max.At90:2.118cd/klm
Max.80-90:44.15cd/klm
NRB 5101:Limited[5.9%]

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	6228
90%	5606
80%	4983
70%	4360
60%	3737
50%	3114
40%	2491
30%	1869
20%	1246
10%	623
5%	311

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:8.440m [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: MA NENG
Test Date: 2026-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.473
Humidity: 65.0%
Test Distance: 8.440m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:119.78V I:0.8227A P:98.299W PF:0.9975 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:14116.3x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Type: 100W		Weight:				
SPEC.: 5000K		DIM.: 0-10V		Instrument No.: HUP-IES1-LAB				
MFR.:		SUR.: 0.28*0.16		shielding angle:				

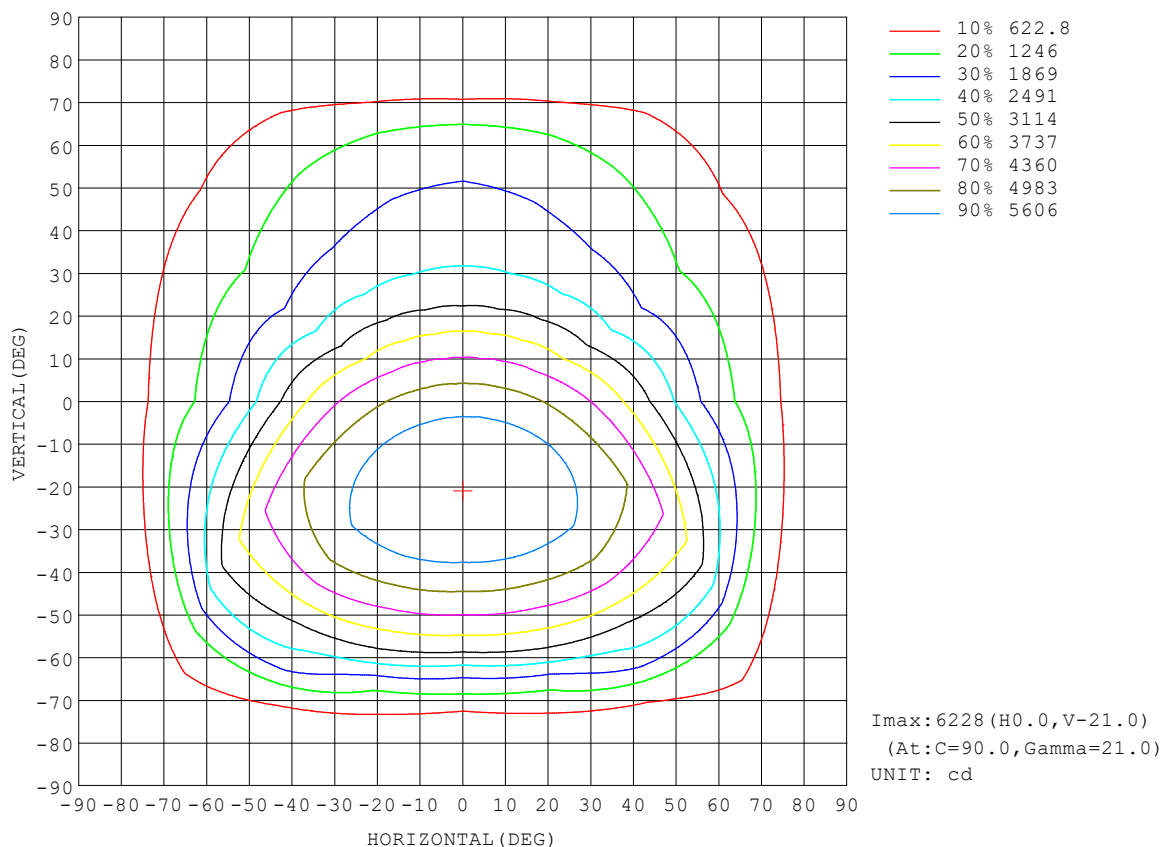
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	5254	5792	5977	5773	5233	4630	4385	4643	0- 10	503.6	503.6	3.57,3.57
20	4925	5979	6226	5955	4883	3697	3347	3718	10- 20	1422	1926	13.6,13.6
30	4353	5912	6067	5894	4280	2746	2568	2766	20- 30	2114	4039	28.6,28.6
40	3508	5506	5415	5511	3390	2129	2196	2124	30- 40	2528	6567	46.5,46.5
50	2443	4629	4360	4667	2318	1695	1917	1672	40- 50	2622	9189	65.1,65.1
60	1519	3263	2871	3295	1438	1321	1521	1292	50- 60	2351	11540	81.8,81.8
70	862.1	1769	989.8	1908	814.6	877.7	696.3	857.5	60- 70	1663	13203	93.5,93.5
80	355.5	373.2	188.9	384.8	326.9	219.5	151.2	222.4	70- 80	674.0	13877	98.3,98.3
90	4.174	25.83	18.84	28.80	5.637	8.061	7.279	7.572	80- 90	148.2	14025	99.4,99.4
100	6.181	4.009	4.226	4.065	6.796	10.13	9.059	10.20	90-100	7.021	14032	99.4,99.4
110	9.350	5.792	6.130	5.973	10.09	14.52	14.08	14.63	100-110	8.920	14041	99.5,99.5
120	12.89	7.972	7.956	8.271	13.80	18.35	18.92	18.78	110-120	11.59	14053	99.6,99.6
130	16.62	10.87	10.29	11.38	17.61	22.02	23.19	22.52	120-130	13.47	14066	99.6,99.6
140	20.23	14.60	13.55	15.06	21.07	25.25	26.75	25.58	130-140	14.29	14081	99.7,99.7
150	23.17	18.52	17.44	18.84	24.09	27.97	29.72	28.02	140-150	13.66	14094	99.8,99.8
160	26.04	22.29	21.73	22.48	26.65	29.37	31.06	29.44	150-160	11.43	14106	99.9,99.9
170	28.56	26.04	26.14	26.38	28.66	29.96	31.22	30.16	160-170	7.676	14114	100,100
180	29.54	29.13	29.82	29.59	29.54	29.16	29.91	29.60	170-180	2.753	14116	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:8.440m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

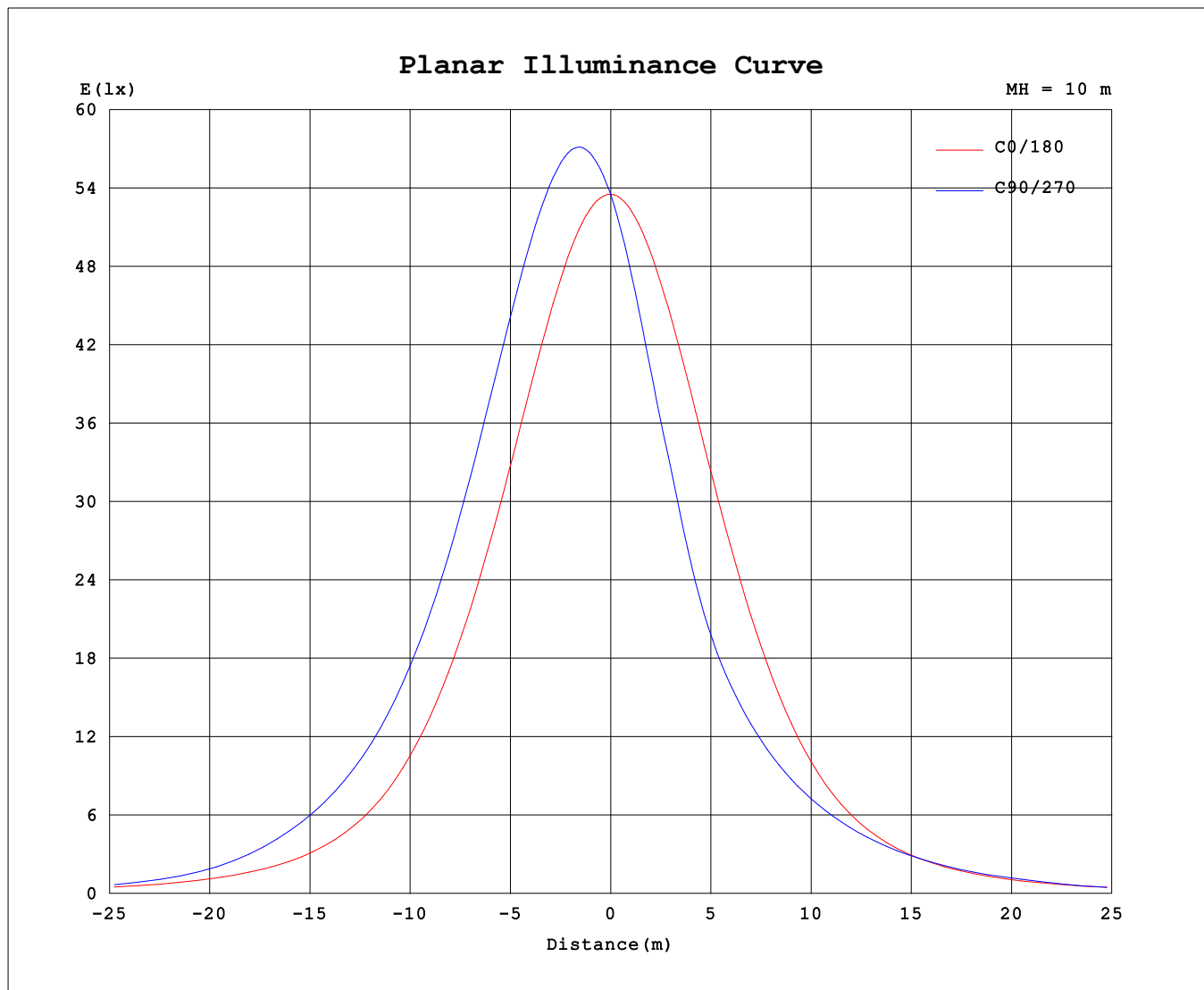
Test:U:119.78V I:0.8227A P:98.299W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14116.3x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: MA NENG
Test Date: 2026-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.473
Humidity: 65.0%
Test Distance: 8.440m [K=1.0000]
Remarks:

Planar Illuminance Curve



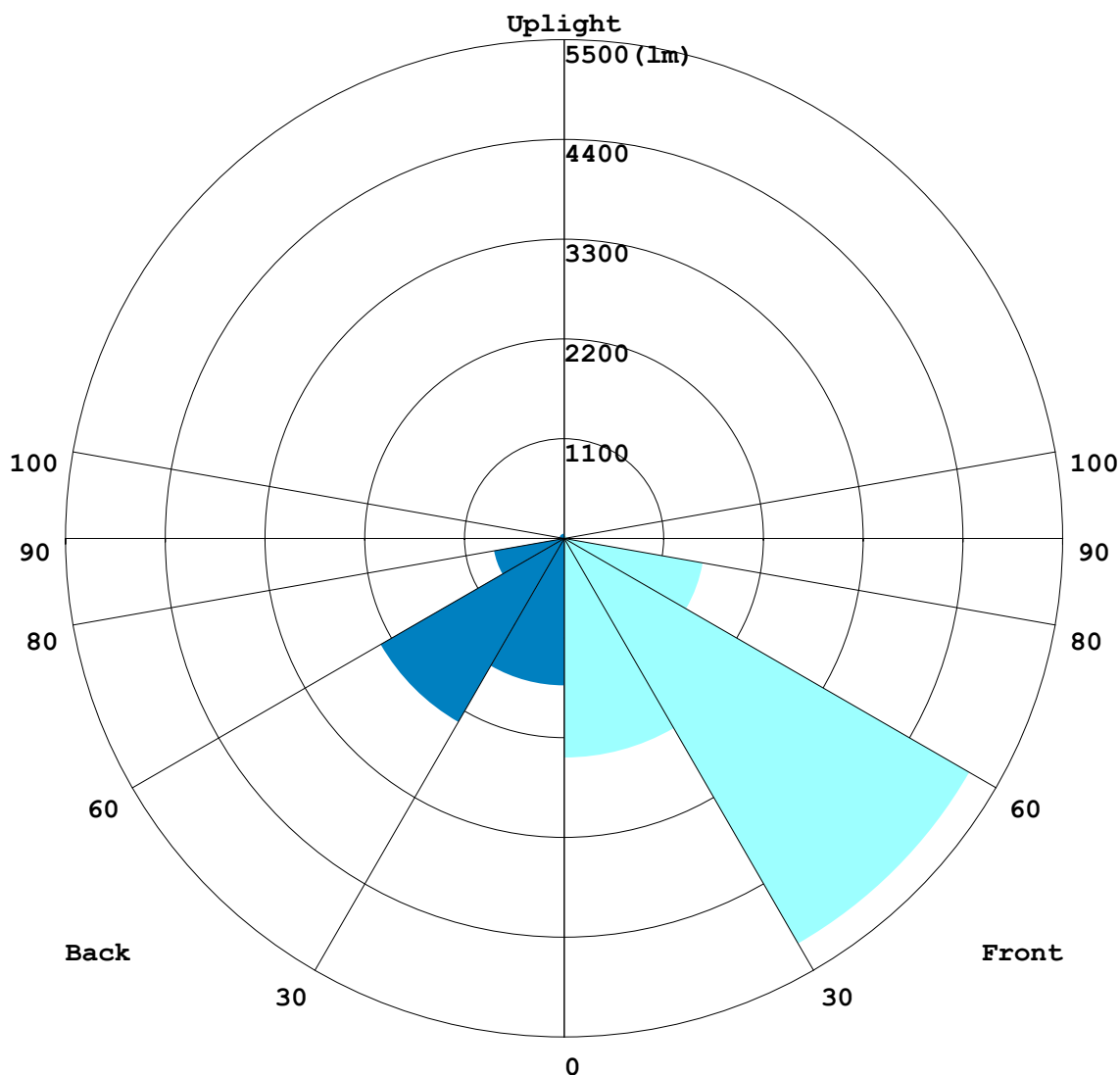
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000H_V1 SYSTEM V2.00.473
 Humidity: 65.0%
 Test Distance: 8.440m [K=1.0000]
 Remarks:

LCS REPORT

Test:U:119.78V I:0.8227A P:98.299W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14116.3x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
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:MA NENG
 Test Date:2026-07-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.473
 Humidity:65.0%
 Test Distance:8.440m [K=1.0000]
 Remarks:

BUG REPORT

Test:U:119.78V I:0.8227A P:98.299W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14116.3x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	2417.7	17.1
FM - Front-Medium(30-60)	5161.1	36.6
FH - Front-High(60-80)	1552.8	11.0
FVH - Front-Very High(80-90)	97.716	0.7
Total Forward Light	9264.2	65.6

BL - Back-Low(0-30)	1621.7	11.5
BM - Back-Medium(30-60)	2339.7	16.6
BH - Back-High(60-80)	784.33	5.6
BVH - Back-Very High(80-90)	50.481	0.4
Total Back Light	4852.1	34.4

UL - Uplight-Low(90-100)	7.0206	0.0
UH - Uplight-High(100-180)	83.802	0.6
Total Up Light	90.822	0.6

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4796.2	55.83	4852.1
Street Side	9229.2	34.992	9264.2

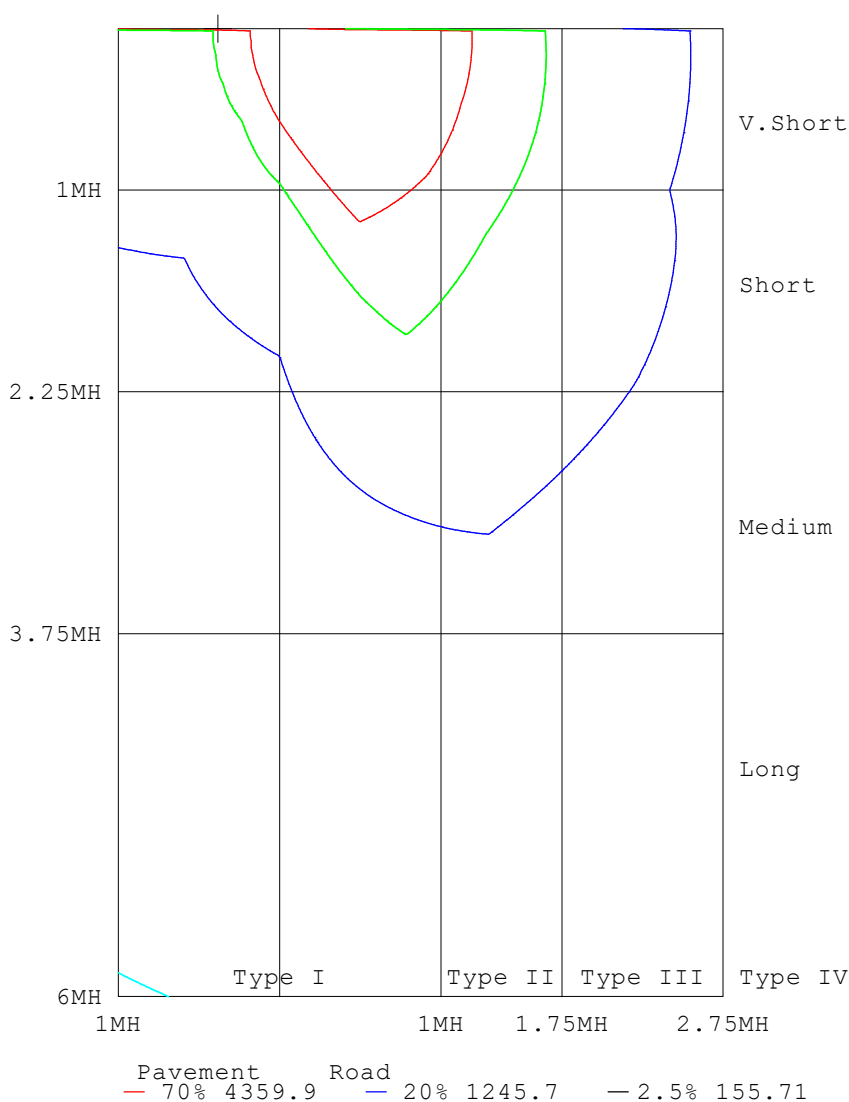
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:8.440m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:119.78V I:0.8227A P:98.299W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14116.3x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
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:MA NENG
Test Date:2026-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:8.440m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.78V I:0.8227A P:98.299W PF:0.9975 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:14116.3x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2			Type: 100W			Weight:		
SPEC.: 5000K			DIM.: 0-10V			Instrument No.: HUP-IES1-LAB		
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	5353	5347	5350	5341	5350	5338	5346	5337	5353	5347	5350	5341	5350	5338	5346	5337			
5	5331	5476	5602	5672	5703	5667	5590	5457	5322	5157	5029	4925	4906	4928	5034	5160			
10	5254	5552	5792	5928	5977	5918	5773	5523	5233	4903	4630	4432	4385	4439	4643	4916			
15	5118	5579	5915	6094	6147	6084	5894	5543	5088	4573	4167	3922	3870	3932	4185	4599			
20	4925	5564	5979	6173	6226	6164	5955	5516	4883	4170	3697	3424	3347	3438	3718	4208			
25	4673	5507	5980	6164	6203	6157	5957	5448	4613	3709	3206	2931	2882	2941	3232	3752			
30	4353	5411	5912	6053	6067	6050	5894	5342	4280	3222	2746	2584	2568	2587	2766	3268			
35	3966	5273	5760	5824	5803	5830	5753	5198	3874	2733	2399	2349	2362	2346	2406	2777			
40	3508	5090	5506	5466	5415	5480	5511	5012	3390	2300	2129	2161	2196	2150	2124	2332			
45	2986	4847	5133	4997	4931	5016	5155	4770	2854	1941	1900	1999	2055	1986	1885	1956			
50	2443	4537	4629	4437	4360	4459	4667	4466	2318	1633	1695	1850	1917	1836	1672	1634			
55	1939	4143	3989	3802	3704	3824	4034	4091	1838	1360	1508	1686	1747	1668	1481	1352			
60	1519	3654	3263	3073	2871	3110	3295	3637	1438	1114	1321	1482	1521	1468	1292	1098			
65	1164	2967	2603	2021	1817	2086	2609	3022	1105	895	1121	1222	1233	1208	1092	873			
70	862	2011	1769	1129	990	1144	1908	2149	815	696	878	785	696	790	858	671			
75	599	1024	713	551	403	578	790	1096	557	509	518	387	356	388	525	484			
80	355	623	373	256	189	271	385	574	327	313	219	163	151	163	222	299			
85	124	295	173	110	86.5	116	179	275	115	105	69.2	66.2	65.1	65.2	66.4	100			
90	4.17	25.2	25.8	22.4	18.8	24.0	28.8	29.9	5.64	7.20	8.06	7.38	7.28	7.02	7.57	6.46			
95	4.81	3.37	3.21	3.30	3.33	3.32	3.23	3.64	5.39	7.27	7.96	7.26	6.78	7.37	8.06	7.51			
100	6.18	4.32	4.01	4.17	4.23	4.19	4.06	4.64	6.80	9.01	10.1	9.53	9.06	9.65	10.2	9.27			
105	7.70	5.43	4.87	5.09	5.20	5.14	4.99	5.83	8.38	10.8	12.4	12.0	11.6	12.1	12.5	11.1			
110	9.35	6.73	5.79	5.98	6.13	6.08	5.97	7.15	10.1	12.7	14.5	14.4	14.1	14.7	14.6	12.9			
115	11.1	8.16	6.81	6.85	7.02	7.01	7.05	8.57	11.9	14.4	16.5	16.8	16.5	17.0	16.7	14.7			
120	12.9	9.76	7.97	7.80	7.96	8.00	8.27	10.1	13.8	16.1	18.3	19.0	18.9	19.4	18.8	16.5			
125	14.8	11.5	9.31	8.93	9.02	9.17	9.71	11.8	15.7	17.9	20.2	21.1	21.1	21.5	20.7	18.2			
130	16.6	13.3	10.9	10.2	10.3	10.6	11.4	13.6	17.6	19.7	22.0	23.1	23.2	23.5	22.5	19.9			
135	18.5	15.2	12.7	11.7	11.8	12.3	13.2	15.4	19.4	21.4	23.6	25.0	25.0	25.1	24.0	21.5			
140	20.2	17.0	14.6	13.5	13.5	14.0	15.1	17.2	21.1	23.2	25.2	26.8	26.8	26.7	25.6	23.2			
145	21.7	18.7	16.5	15.3	15.3	15.9	16.9	18.7	22.6	24.6	26.7	28.2	28.4	28.0	26.9	24.6			
150	23.2	20.5	18.5	17.4	17.4	18.0	18.8	20.4	24.1	25.9	28.0	29.4	29.7	29.1	28.0	25.9			
155	24.7	22.2	20.5	19.5	19.6	20.0	20.7	22.1	25.5	26.9	28.8	30.2	30.6	29.8	28.9	27.0			
160	26.0	23.8	22.3	21.5	21.7	22.0	22.5	23.8	26.6	27.7	29.4	30.6	31.1	30.2	29.4	27.9			
165	27.3	25.3	24.2	23.5	23.9	24.0	24.4	25.6	27.7	28.4	29.8	30.9	31.2	30.5	30.0	28.9			
170	28.6	26.9	26.0	25.6	26.1	26.0	26.4	27.3	28.7	28.9	30.0	30.8	31.2	30.5	30.2	29.5			
175	29.3	28.0	27.6	27.5	28.1	27.8	28.1	28.7	29.4	29.3	29.9	30.5	31.0	30.5	30.3	30.1			
180	29.5	29.0	29.1	29.3	29.8	29.4	29.6	29.8	29.5	29.0	29.2	29.3	29.9	29.5	29.6	29.8			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000H_V1 SYSTEM V2.00.473
Humidity:65.0%
Test Distance:8.440m [K=1.0000]
Remarks: