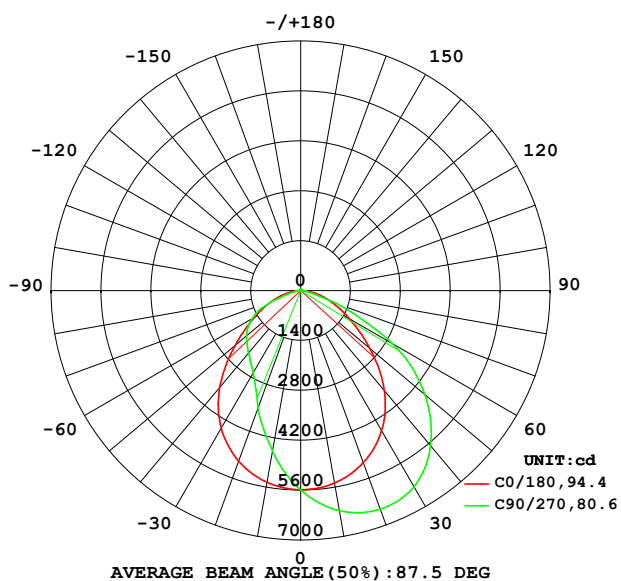
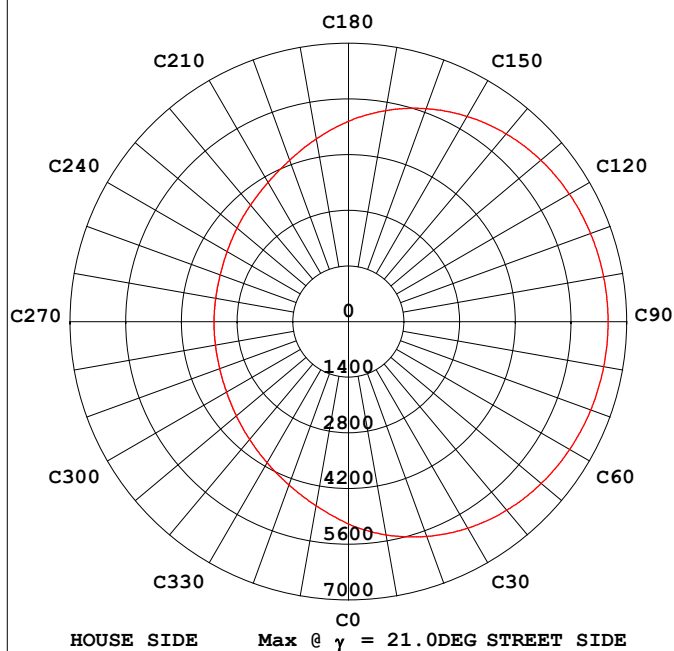


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.78V I:0.7876A P:94.108W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14712.5x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 156.34 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax(cd)	6529	η street_up(%)	0.3
NOMINAL POWER(W)	100	LOR(%)	100.0	η street_down(%)	65.5
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	14713	η house_up(%)	0.4
NOMINAL FLUX(lm)	14712.5	MAXIMUM @ (C, γ)	90,21.0	η house_down(%)	33.9
LAMPS INSIDE	1	η up(%)	0.7	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	120	η down(%)	99.3	SLI	

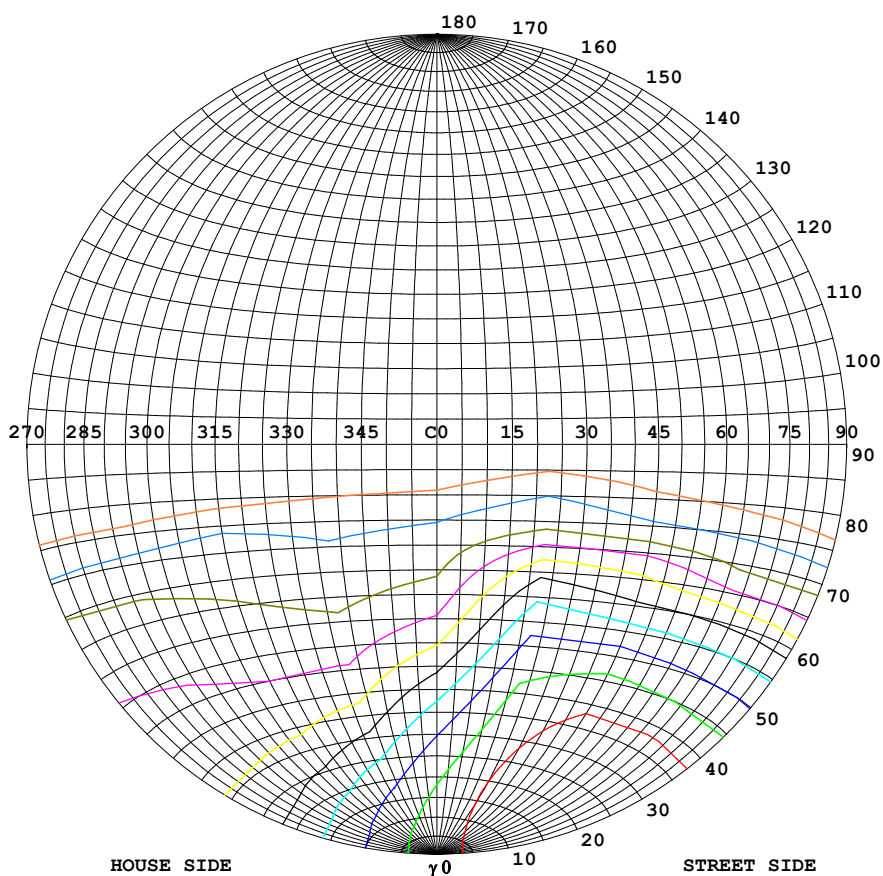
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:0.7876A P:94.108W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14712.5x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



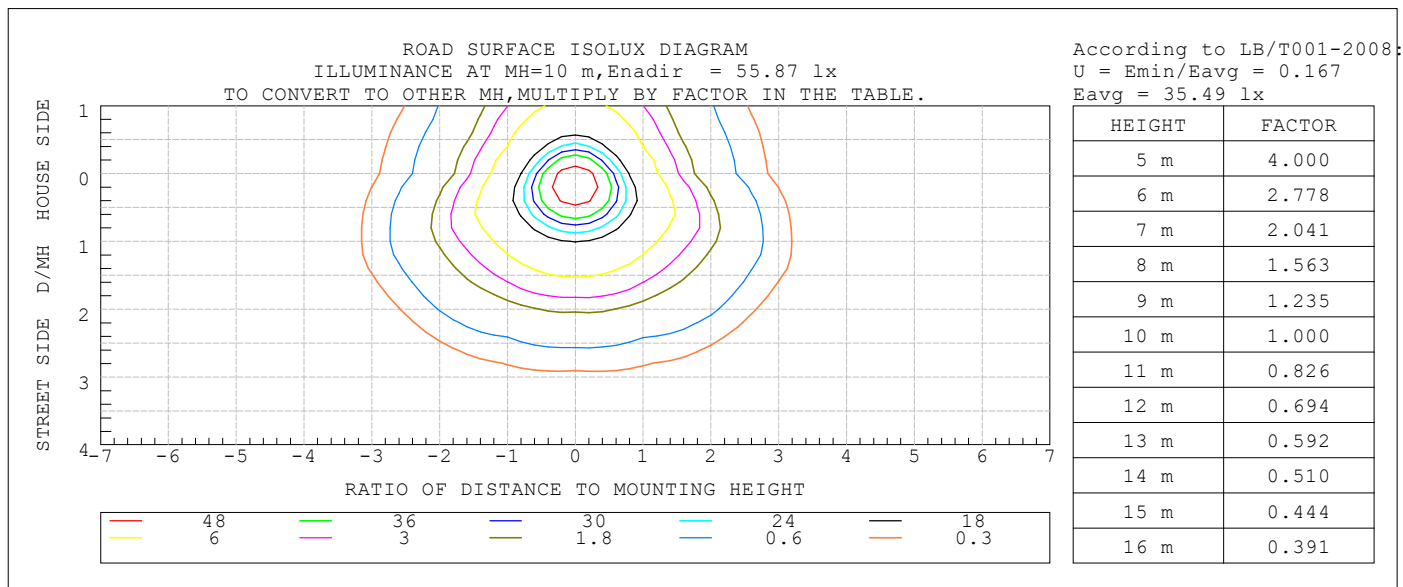
Classification:

IES:Type II - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:43.99cd/klm
Max.At90:2.134cd/klm
Max.80-90:43.99cd/klm
NRB 5101:Limited[5.8%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6529
90%	5876
80%	5223
70%	4570
60%	3918
50%	3265
40%	2612
30%	1959
20%	1306
10%	653
5%	326

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℃
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:0.7876A P:94.108W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14712.5x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:

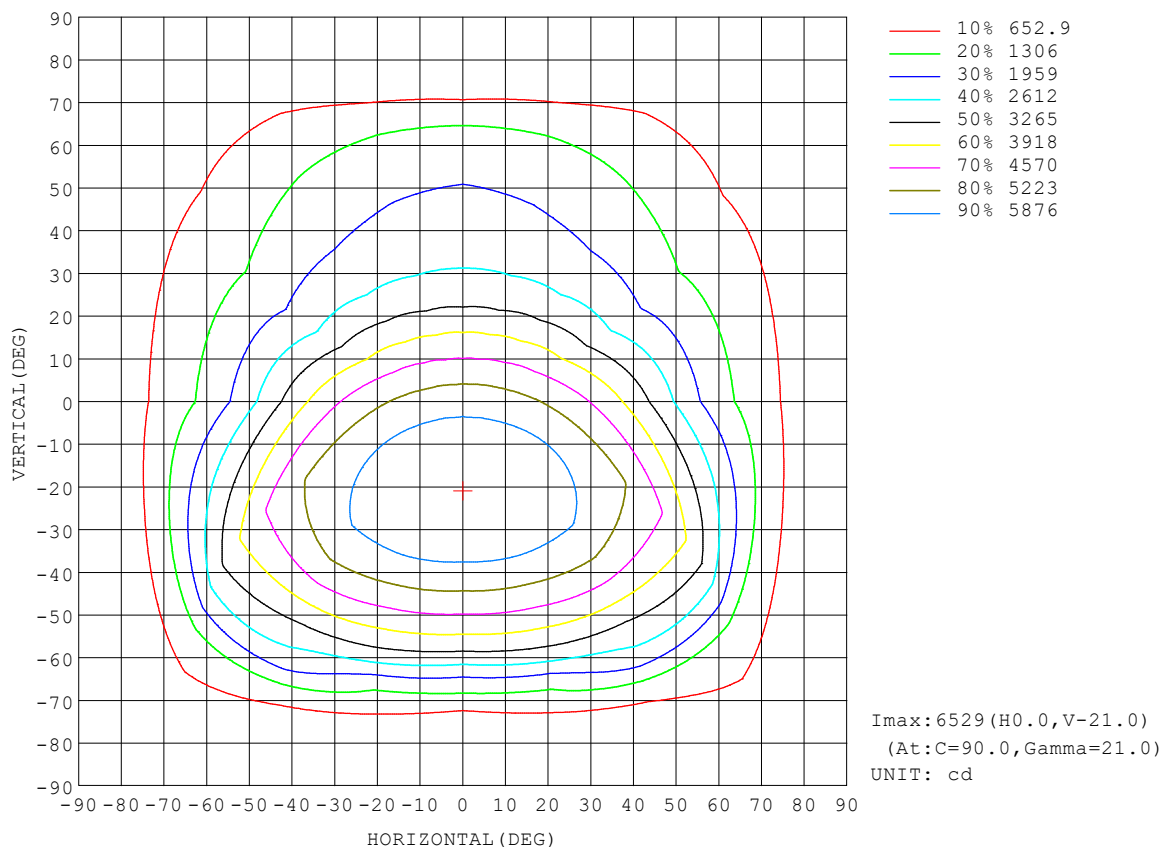
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	5481	6066	6268	6054	5460	4830	4574	4848	0- 10	526.6	526.6	3.58,3.58
20	5138	6263	6526	6245	5093	3843	3498	3871	10- 20	1487	2013	13.7,13.7
30	4539	6186	6356	6176	4461	2852	2668	2880	20- 30	2209	4222	28.7,28.7
40	3655	5759	5669	5774	3533	2209	2279	2207	30- 40	2640	6862	46.6,46.6
50	2545	4827	4548	4875	2413	1755	1986	1736	40- 50	2735	9596	65.2,65.2
60	1580	3388	2968	3423	1496	1367	1574	1340	50- 60	2446	12043	81.9,81.9
70	899.0	1821	1023	1971	846.7	907.2	719.6	889.2	60- 70	1723	13766	93.6,93.6
80	372.4	387.6	194.3	398.8	340.0	227.9	156.7	232.7	70- 80	696.0	14462	98.3,98.3
90	4.686	27.09	19.81	30.02	5.763	8.212	7.456	7.781	80- 90	154.0	14616	99.3,99.3
100	6.973	4.481	4.740	4.561	6.967	10.37	9.322	10.55	90-100	7.417	14623	99.4,99.4
110	10.43	6.432	6.785	6.654	10.37	14.94	14.59	15.16	100-110	9.428	14633	99.5,99.5
120	14.27	8.838	8.784	9.172	14.21	18.92	19.66	19.53	110-120	12.27	14645	99.5,99.5
130	18.23	12.04	11.37	12.58	18.20	22.79	24.10	23.49	120-130	14.29	14659	99.6,99.6
140	22.01	16.08	14.94	16.60	21.97	26.36	27.98	26.84	130-140	15.20	14674	99.7,99.7
150	25.11	20.27	19.15	20.61	25.30	29.64	31.44	29.89	140-150	14.61	14689	99.8,99.8
160	27.98	24.25	23.69	24.44	28.13	31.40	33.10	31.58	150-160	12.28	14701	99.9,99.9
170	30.52	28.21	28.34	28.58	30.36	32.17	33.50	32.51	160-170	8.256	14710	100,100
180	31.46	31.41	32.20	31.93	31.45	31.42	32.19	31.94	170-180	2.962	14713	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

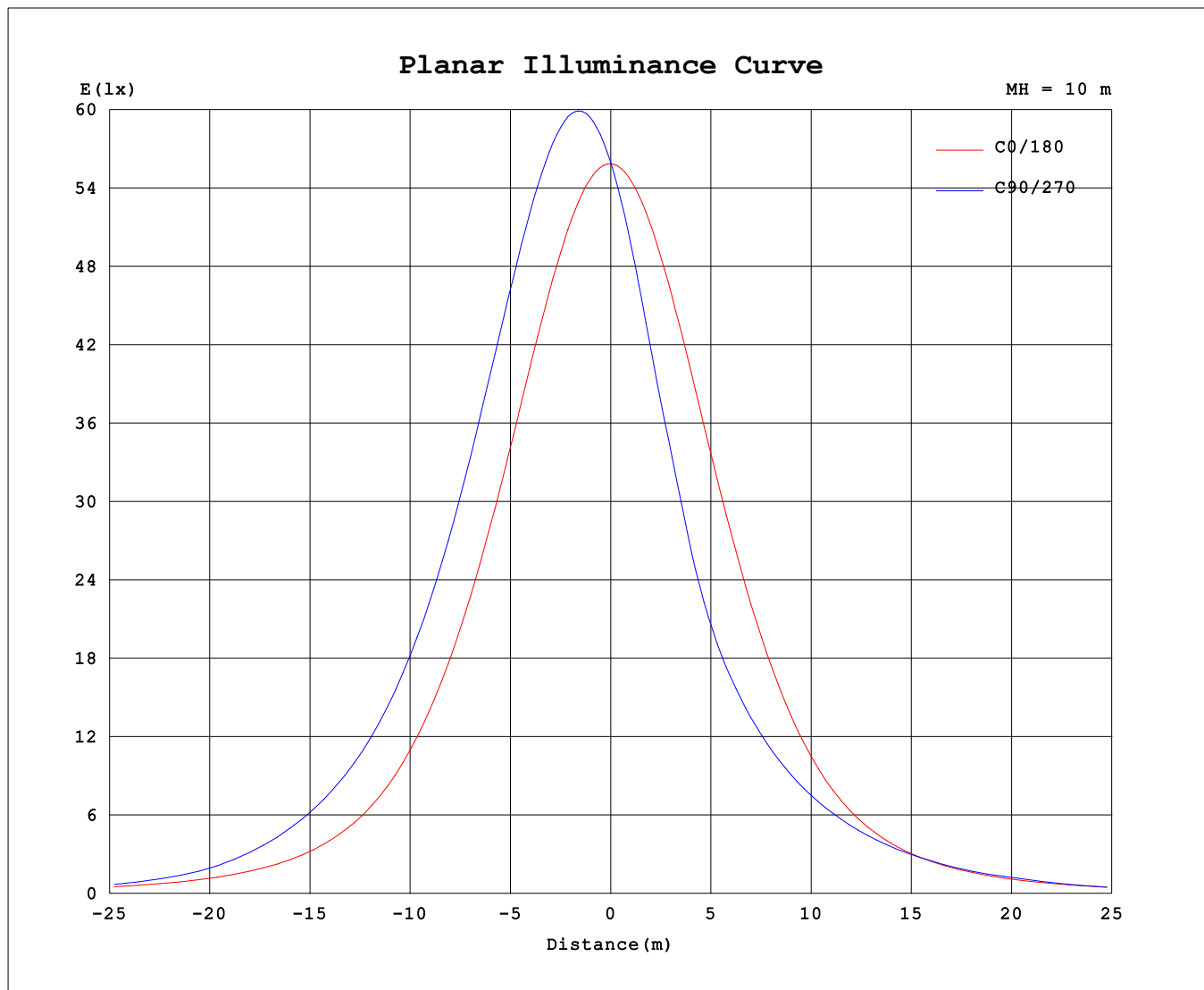
Test:U:119.78V I:0.7876A P:94.108W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14712.5x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



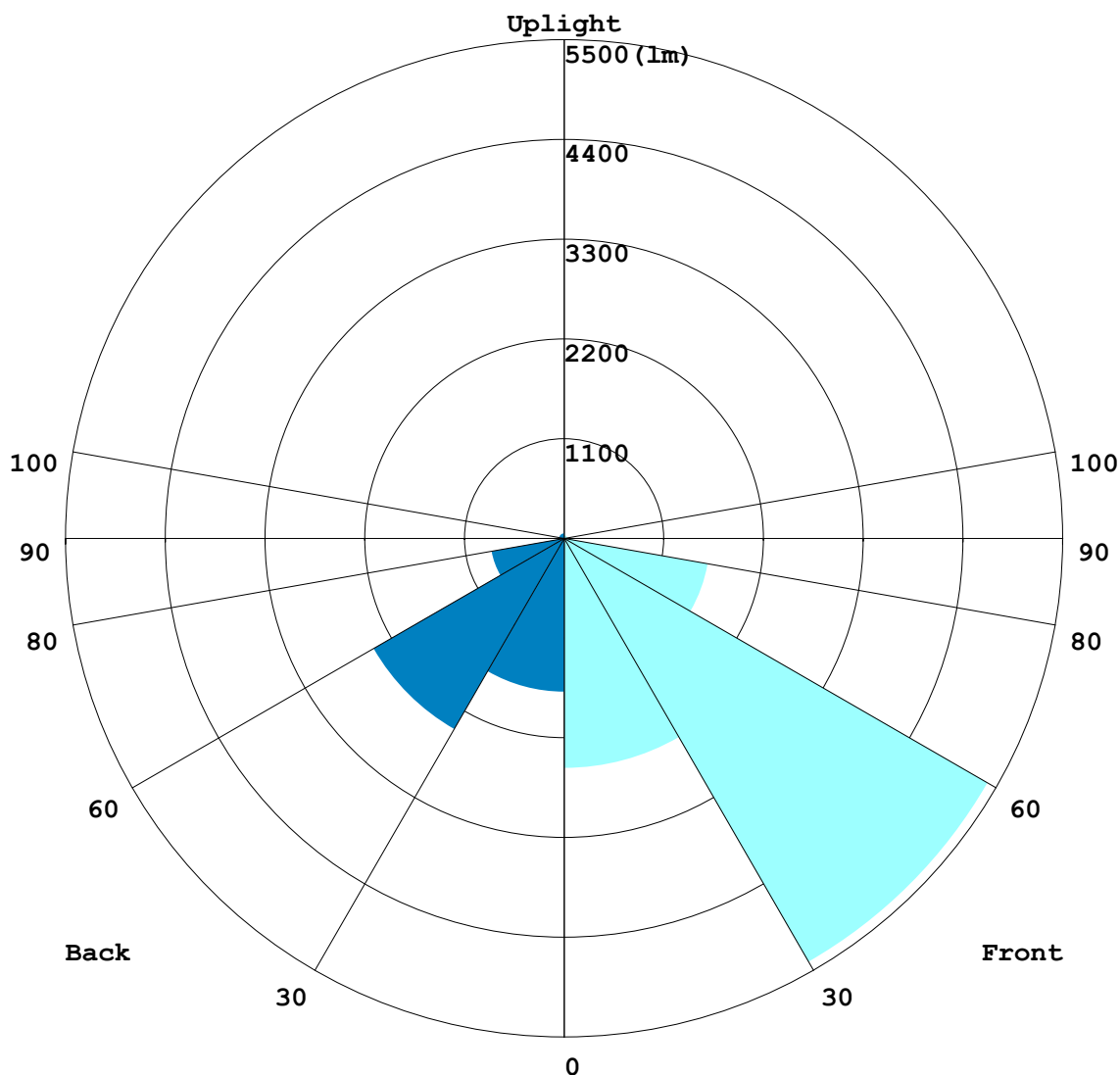
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:0.7876A P:94.108W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14712.5x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	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:0.7876A P:94.108W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14712.5x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	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)	2532	17.2
FM - Front-Medium(30-60)	5391.4	36.6
FH - Front-High(60-80)	1607	10.9
FVH - Front-Very High(80-90)	101.62	0.7
Total Forward Light	9670.4	65.7

BL - Back-Low(0-30)	1690	11.5
BM - Back-Medium(30-60)	2429.2	16.5
BH - Back-High(60-80)	812.27	5.5
BVH - Back-Very High(80-90)	52.376	0.4
Total Back Light	5042.1	34.3

UL - Uplight-Low(90-100)	7.4173	0.1
UH - Uplight-High(100-180)	89.288	0.6
Total Up Light	96.705	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4983.8	58.289	5042.1
Street Side	9632	38.416	9670.4

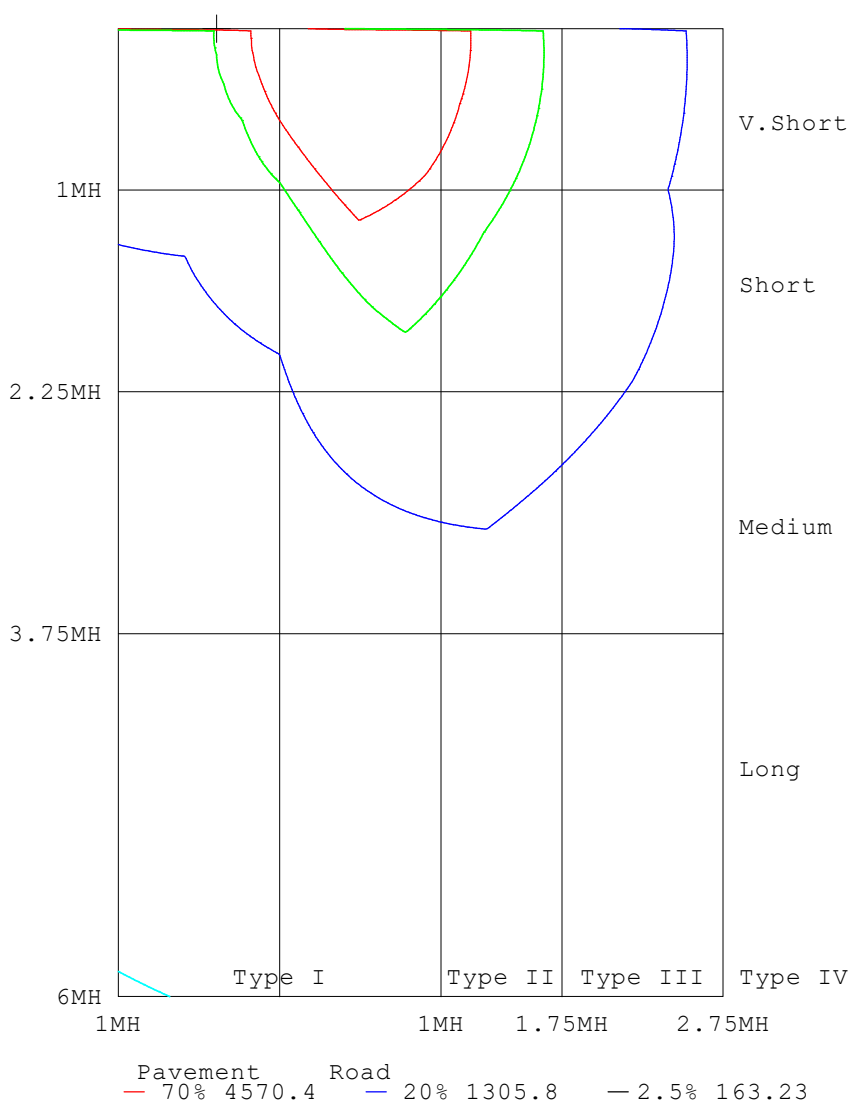
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:0.7876A P:94.108W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14712.5x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	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:0.7876A P:94.108W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14712.5x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	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	5587	5586	5593	5584	5597	5585	5596	5588	5587	5586	5593	5584	5597	5585	5596	5588			
5	5564	5724	5861	5940	5979	5939	5856	5717	5553	5384	5251	5143	5124	5150	5261	5399			
10	5481	5808	6066	6214	6268	6209	6054	5789	5460	5112	4830	4622	4574	4633	4848	5140			
15	5340	5838	6199	6387	6449	6380	6181	5811	5307	4766	4337	4083	4030	4096	4365	4806			
20	5138	5823	6263	6468	6526	6462	6245	5783	5093	4342	3843	3565	3498	3580	3871	4393			
25	4873	5762	6260	6455	6498	6453	6245	5710	4810	3858	3335	3045	2997	3060	3370	3915			
30	4539	5658	6186	6340	6356	6344	6176	5598	4461	3350	2852	2682	2668	2690	2880	3407			
35	4134	5512	6028	6098	6076	6109	6026	5445	4033	2839	2488	2437	2453	2435	2503	2893			
40	3655	5320	5759	5720	5669	5734	5774	5247	3533	2385	2209	2241	2279	2234	2207	2427			
45	3110	5063	5366	5223	5155	5246	5395	4992	2973	2013	1969	2072	2130	2061	1958	2038			
50	2545	4737	4827	4629	4548	4653	4875	4671	2413	1693	1755	1916	1986	1902	1736	1701			
55	2021	4326	4152	3959	3850	3986	4202	4279	1911	1408	1561	1743	1809	1729	1536	1405			
60	1580	3807	3388	3185	2968	3228	3423	3797	1496	1154	1367	1529	1574	1517	1340	1141			
65	1212	3080	2703	2079	1874	2144	2710	3145	1149	927	1158	1261	1273	1250	1134	908			
70	899	2062	1821	1174	1023	1190	1971	2209	847	721	907	810	720	816	889	698			
75	625	1055	734	569	411	599	809	1118	579	528	537	401	369	403	544	504			
80	372	647	388	263	194	288	399	594	340	324	228	165	157	165	233	312			
85	134	309	180	113	89.6	119	186	286	120	109	71.7	68.6	67.3	67.4	69.3	105			
90	4.69	26.9	27.1	23.5	19.8	25.0	30.0	31.4	5.76	7.32	8.21	7.58	7.46	7.23	7.78	6.65			
95	5.46	3.79	3.62	3.75	3.80	3.77	3.66	4.05	5.51	7.45	8.12	7.43	6.96	7.56	8.32	7.70			
100	6.97	4.83	4.48	4.67	4.74	4.70	4.56	5.15	6.97	9.23	10.4	9.79	9.32	9.90	10.5	9.52			
105	8.64	6.06	5.42	5.65	5.79	5.73	5.58	6.45	8.59	11.1	12.7	12.4	11.9	12.5	12.9	11.4			
110	10.4	7.47	6.43	6.62	6.79	6.74	6.65	7.90	10.4	13.0	14.9	14.9	14.6	15.0	15.2	13.4			
115	12.3	9.07	7.55	7.55	7.75	7.73	7.83	9.49	12.2	14.8	17.0	17.3	17.1	17.6	17.4	15.2			
120	14.3	10.8	8.84	8.60	8.78	8.84	9.17	11.2	14.2	16.6	18.9	19.7	19.7	20.0	19.5	17.1			
125	16.3	12.7	10.3	9.85	9.96	10.1	10.8	13.1	16.2	18.5	20.9	21.9	21.9	22.3	21.6	18.9			
130	18.2	14.7	12.0	11.3	11.4	11.7	12.6	15.0	18.2	20.4	22.8	24.0	24.1	24.4	23.5	20.7			
135	20.2	16.7	14.0	13.0	13.1	13.5	14.6	17.0	20.1	22.3	24.6	26.0	26.1	26.2	25.1	22.5			
140	22.0	18.6	16.1	14.8	14.9	15.4	16.6	18.8	22.0	24.2	26.4	28.0	28.0	27.9	26.8	24.4			
145	23.5	20.4	18.1	16.9	16.9	17.4	18.5	20.5	23.6	25.9	28.0	29.6	29.8	29.5	28.4	26.0			
150	25.1	22.3	20.3	19.1	19.2	19.7	20.6	22.2	25.3	27.4	29.6	31.1	31.4	30.8	29.9	27.6			
155	26.6	24.1	22.3	21.3	21.5	21.8	22.6	24.0	26.8	28.6	30.7	32.2	32.5	31.7	30.9	28.8			
160	28.0	25.8	24.3	23.5	23.7	23.9	24.4	25.7	28.1	29.6	31.4	32.7	33.1	32.2	31.6	29.9			
165	29.3	27.4	26.2	25.7	26.0	26.0	26.5	27.6	29.3	30.4	32.0	33.1	33.4	32.7	32.2	30.9			
170	30.5	29.0	28.2	27.8	28.3	28.2	28.6	29.4	30.4	30.9	32.2	33.0	33.5	32.7	32.5	31.6			
175	31.2	30.2	29.9	29.8	30.4	30.0	30.3	30.9	31.2	31.4	32.2	32.8	33.3	32.8	32.6	32.3			
180	31.5	31.1	31.4	31.6	32.2	31.7	31.9	32.0	31.5	31.1	31.4	31.6	32.2	31.8	31.9	32.0			

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: