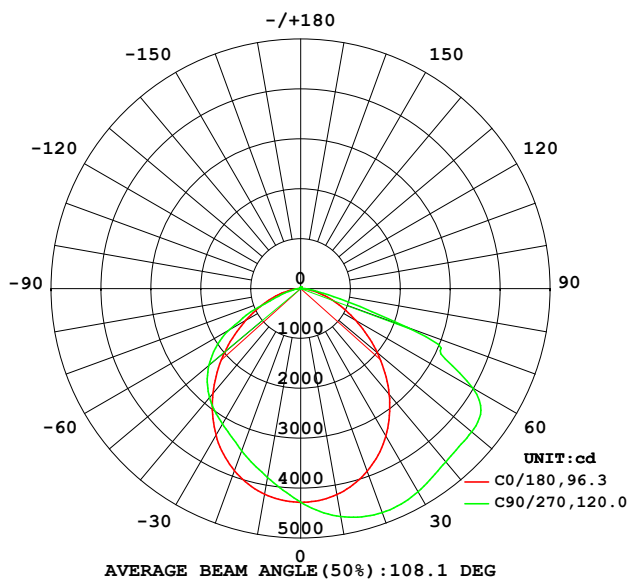
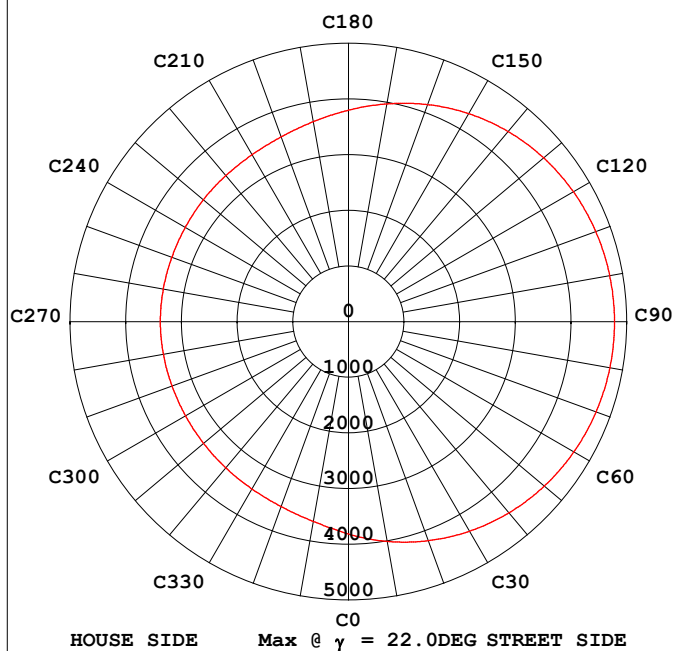


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.79V I:0.8245A P:98.524W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13179x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 133.76 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	4778	η street_up (%)	0.3
NOMINAL POWER (W)	100	LOR (%)	100.0	η street_down (%)	61.5
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	13179	η house_up (%)	0.4
NOMINAL FLUX (lm)	13179	MAXIMUM @ (C, γ)	90, 22.0	η house_down (%)	37.8
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

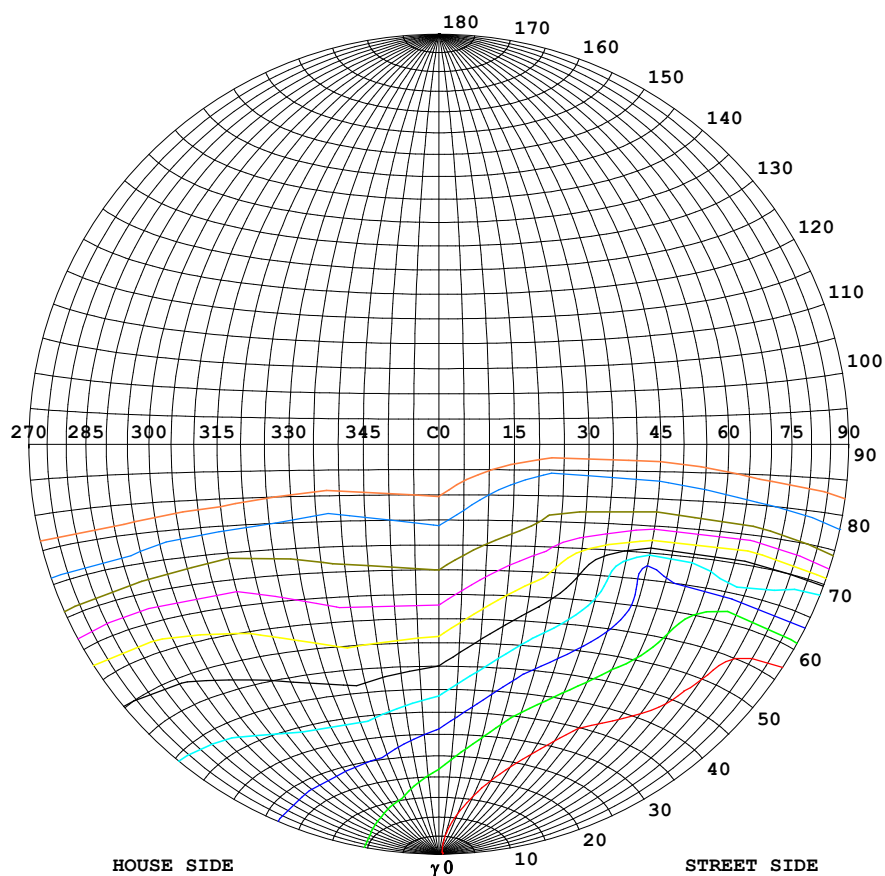
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:119.79V I:0.8245A P:98.524W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13179x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



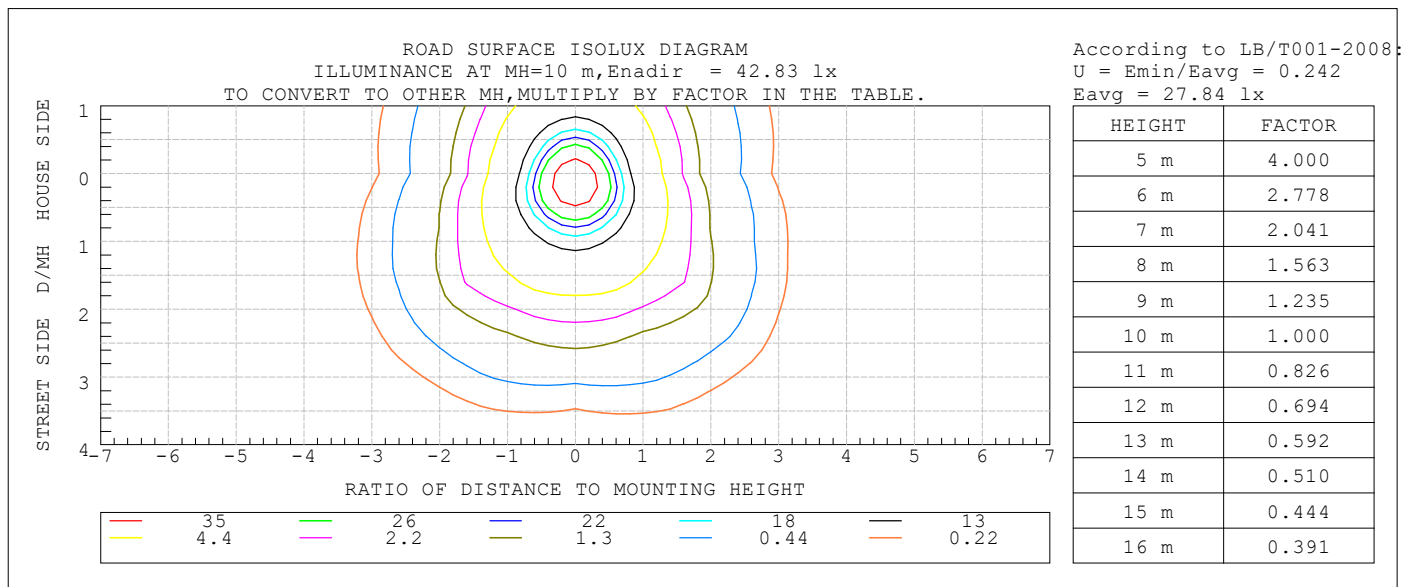
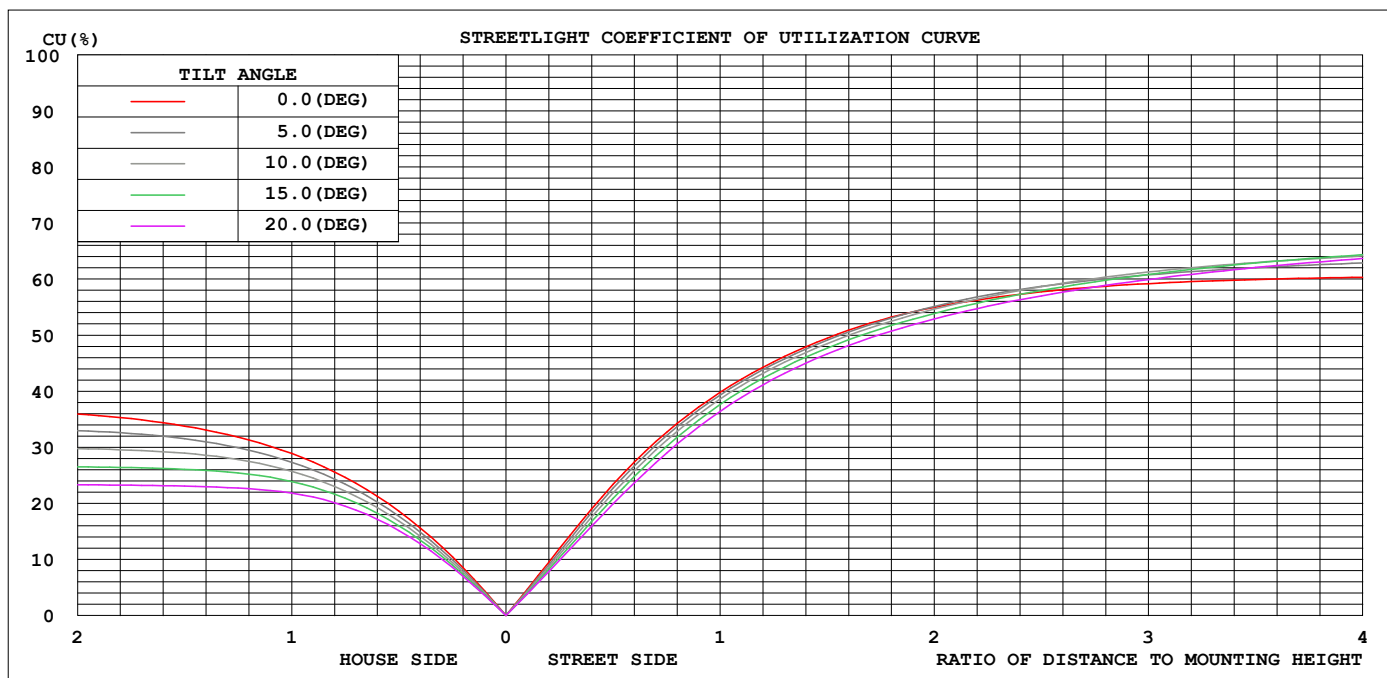
Classification:

IES:Type III - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:60.20cd/klm
Max.At90:4.502cd/klm
Max.80-90:60.20cd/klm
NRB 5101:Limited[7.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4778
90%	4300
80%	3823
70%	3345
60%	2867
50%	2389
40%	1911
30%	1433
20%	956
10%	478
5%	239

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:119.79V I:0.8245A P:98.524W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13179x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:

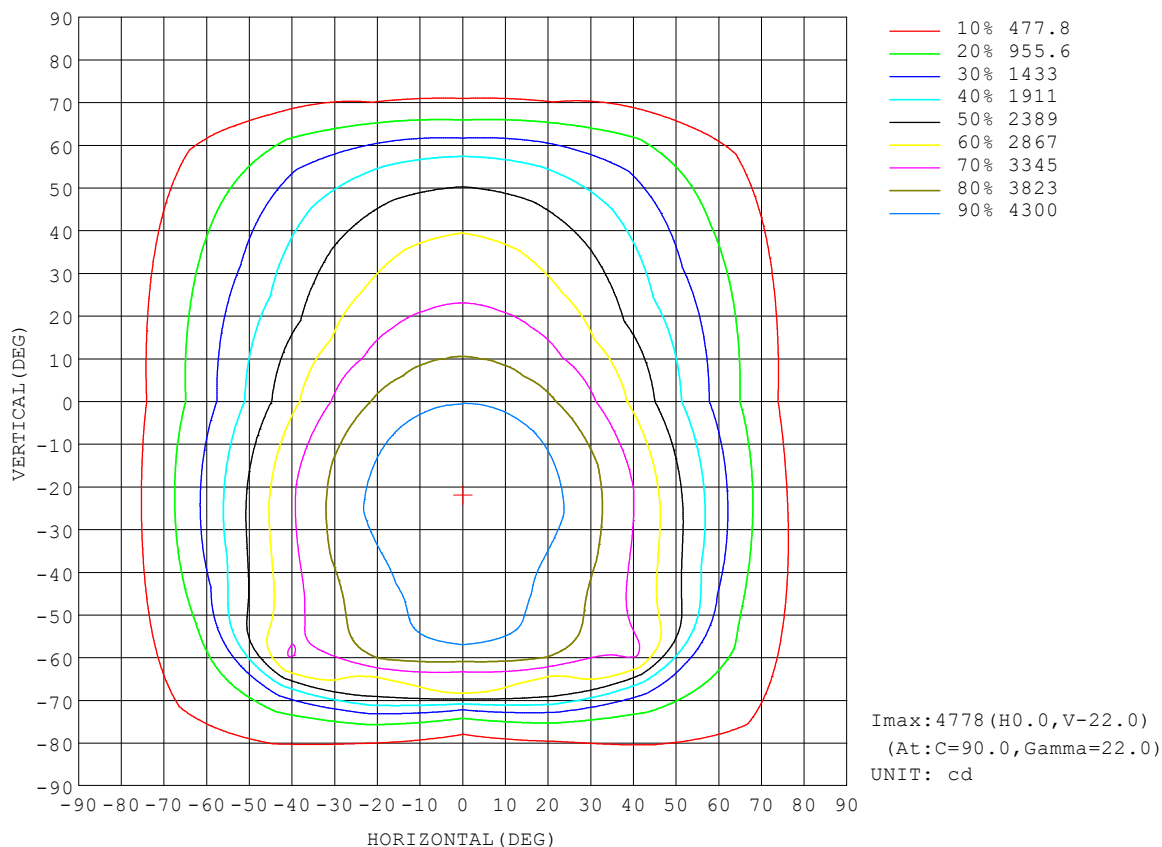
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4191	4514	4639	4500	4182	3919	3840	3916	0- 10	405.0	405.0	3.07,3.07
20	3897	4556	4776	4535	3883	3511	3461	3508	10- 20	1165	1570	11.9,11.9
30	3414	4423	4702	4401	3393	3052	3135	3042	20- 30	1783	3354	25.4,25.4
40	2762	4124	4528	4099	2737	2638	2846	2614	30- 40	2196	5550	42.1,42.1
50	2011	3710	4472	3665	1991	2180	2402	2151	40- 50	2375	7925	60.1,60.1
60	1276	3409	3980	3309	1266	1625	1640	1600	50- 60	2312	10237	77.7,77.7
70	669.4	2735	2276	2941	672.4	853.9	524.5	856.2	60- 70	1835	12072	91.6,91.6
80	224.5	732.8	344.9	715.0	235.0	176.5	155.1	179.7	70- 80	822.4	12895	97.8,97.8
90	3.850	54.94	31.21	59.33	4.856	8.871	10.03	8.409	80- 90	197.1	13092	99.3,99.3
100	5.720	4.998	5.053	5.021	5.669	9.745	11.36	9.990	90-100	8.457	13100	99.4,99.4
110	8.539	7.304	7.708	7.411	8.503	12.85	15.08	13.15	100-110	9.133	13109	99.5,99.5
120	11.64	9.694	10.18	9.836	11.62	15.73	18.20	16.04	110-120	11.36	13121	99.6,99.6
130	14.74	12.32	12.52	12.58	14.67	19.12	21.00	18.96	120-130	12.81	13133	99.7,99.7
140	17.71	15.30	15.22	15.71	17.52	22.19	23.93	21.93	130-140	13.31	13147	99.8,99.8
150	20.34	18.50	18.34	18.91	20.27	24.14	26.13	24.03	140-150	12.54	13159	99.9,99.9
160	22.94	21.49	21.56	21.77	22.80	25.01	26.66	25.12	150-160	10.33	13170	99.9,99.9
170	25.18	24.17	24.49	24.45	24.93	25.84	26.82	26.05	160-170	6.857	13177	100,100
180	25.99	25.94	26.48	26.24	25.99	25.95	26.51	26.24	170-180	2.445	13179	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

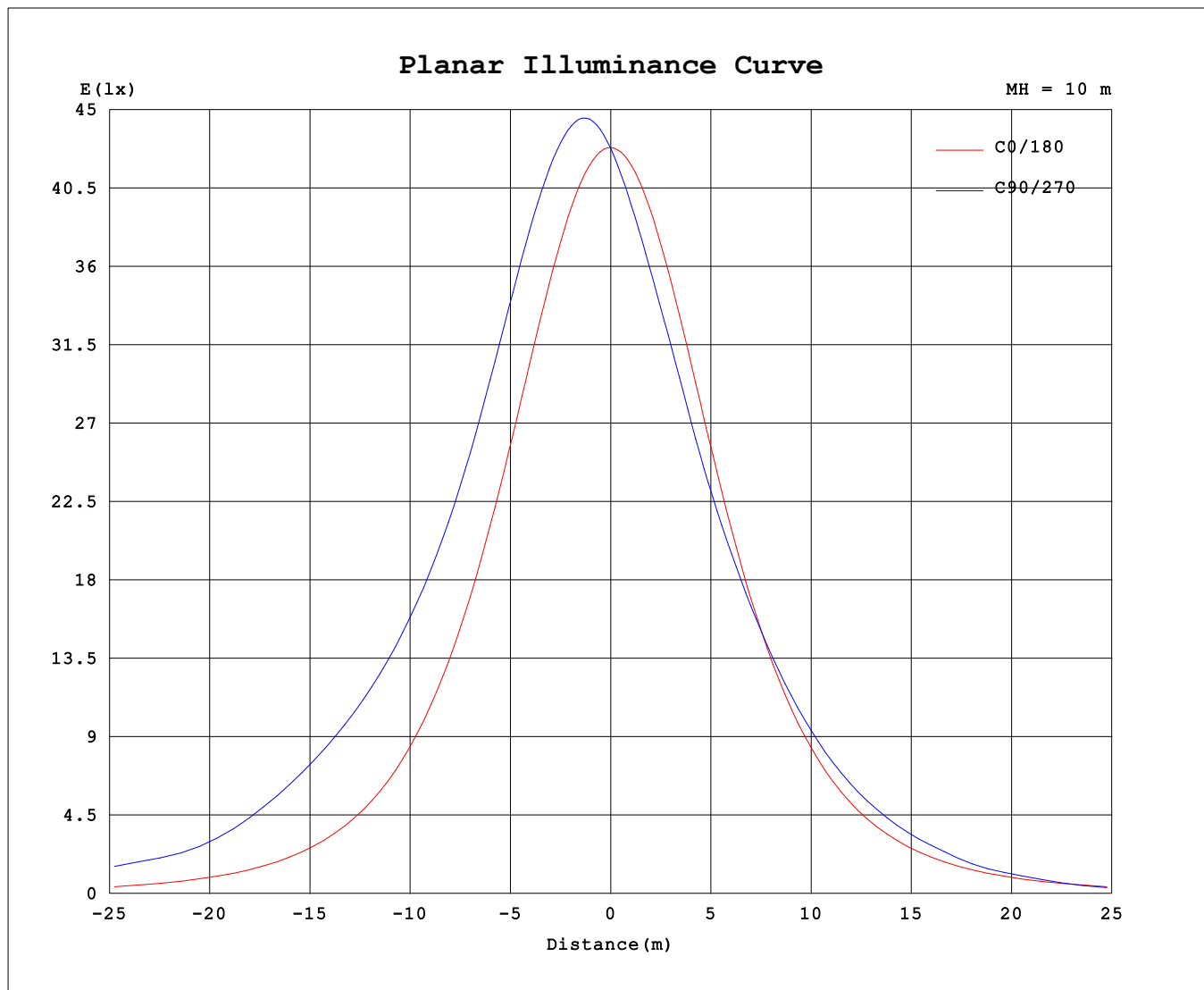
Test:U:119.79V I:0.8245A P:98.524W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13179x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



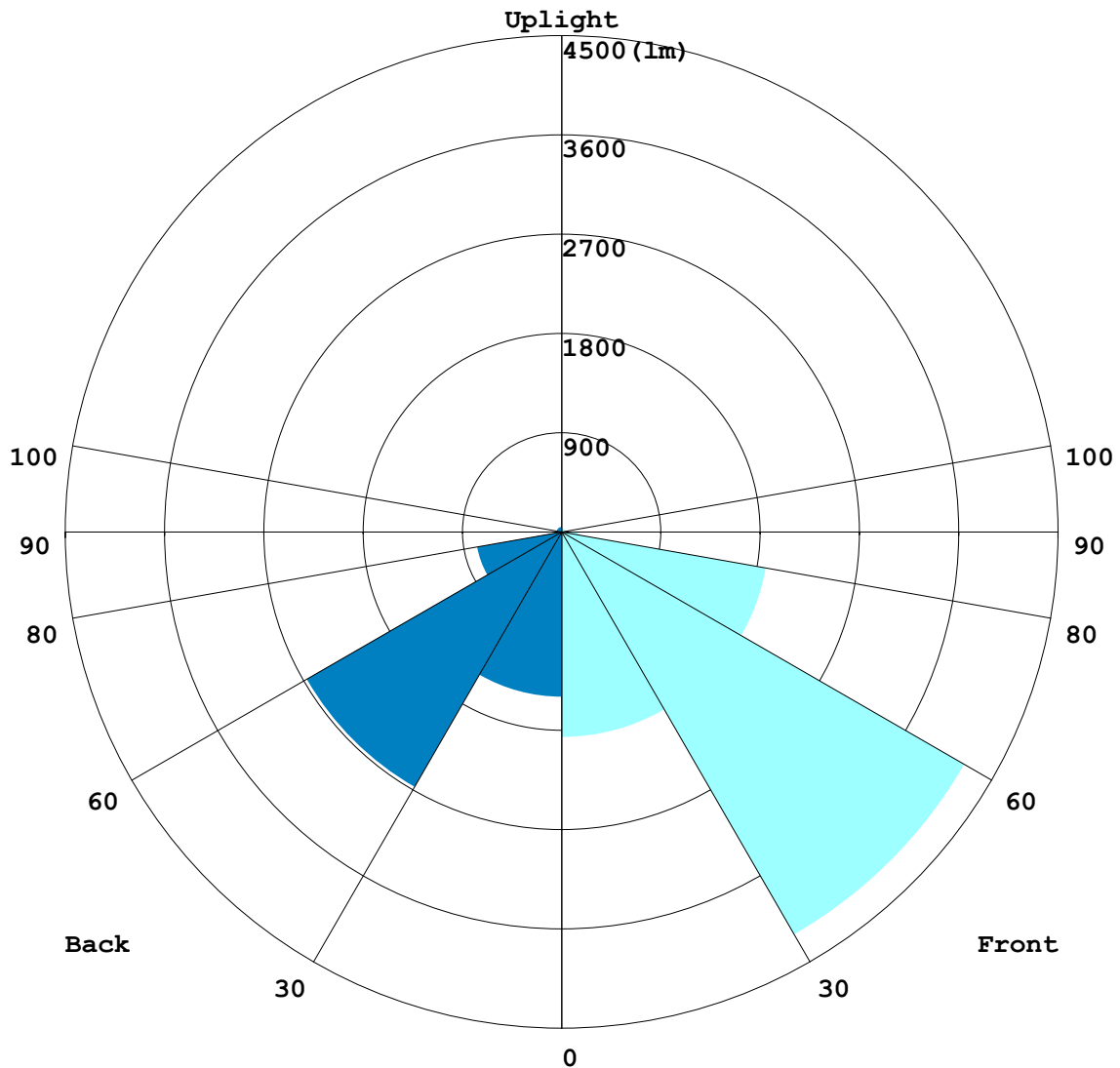
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:119.79V I:0.8245A P:98.524W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13179x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	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:119.79V I:0.8245A P:98.524W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13179x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	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)	1859	14.1
FM - Front-Medium(30-60)	4215.4	32.0
FH - Front-High(60-80)	1878.6	14.3
FVH - Front-Very High(80-90)	151.12	1.1
Total Forward Light	8141.4	61.8

BL - Back-Low(0-30)	1494.9	11.3
BM - Back-Medium(30-60)	2668	20.2
BH - Back-High(60-80)	778.65	5.9
BVH - Back-Very High(80-90)	45.98	0.3
Total Back Light	5037.6	38.2

UL - Uplight-Low(90-100)	8.4566	0.1
UH - Uplight-High(100-180)	78.786	0.6
Total Up Light	87.242	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4987.6	50.026	5037.6
Street Side	8104.2	37.216	8141.4

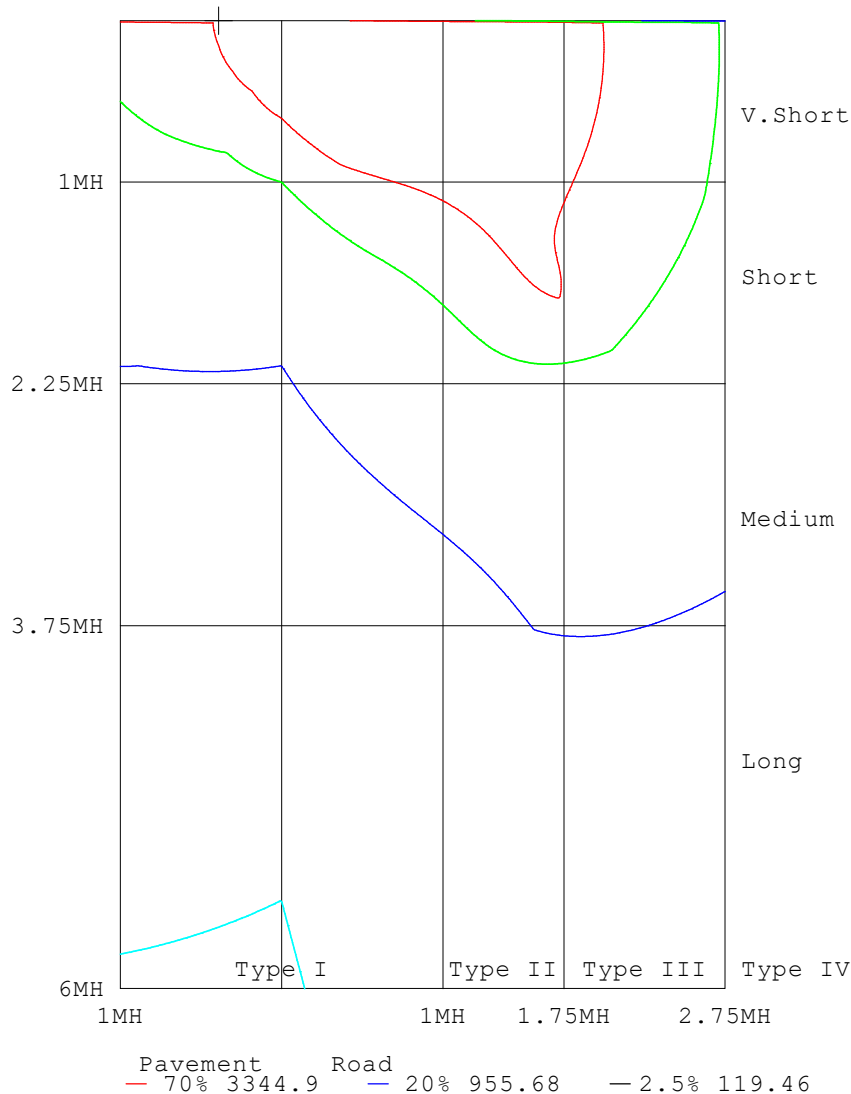
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:119.79V I:0.8245A P:98.524W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13179x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	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:119.79V I:0.8245A P:98.524W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13179x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	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	4283	4280	4280	4273	4278	4269	4273	4270	4283	4280	4280	4273	4278	4269	4273	4270			
5	4261	4344	4419	4464	4483	4457	4409	4329	4258	4171	4110	4063	4055	4061	4106	4167			
10	4191	4367	4514	4605	4639	4598	4500	4344	4182	4021	3919	3854	3840	3852	3916	4020			
15	4068	4338	4559	4689	4735	4682	4542	4313	4057	3831	3715	3657	3647	3653	3715	3835			
20	3897	4268	4556	4724	4776	4715	4535	4237	3883	3610	3511	3459	3461	3456	3508	3614			
25	3678	4155	4512	4707	4764	4699	4489	4115	3663	3361	3280	3265	3279	3260	3276	3364			
30	3414	3999	4423	4640	4702	4632	4401	3953	3393	3088	3052	3099	3135	3092	3042	3088			
35	3106	3804	4294	4536	4608	4526	4269	3750	3082	2793	2841	2951	3003	2940	2824	2792			
40	2762	3572	4124	4419	4528	4401	4099	3514	2737	2494	2638	2786	2846	2775	2614	2484			
45	2391	3293	3921	4325	4486	4299	3889	3223	2369	2200	2422	2587	2647	2573	2394	2181			
50	2011	2975	3710	4277	4472	4247	3665	2896	1991	1914	2180	2345	2402	2331	2151	1886			
55	1633	2619	3519	4245	4398	4220	3452	2532	1619	1631	1914	2052	2088	2042	1887	1596			
60	1276	2229	3409	4053	3980	4066	3309	2137	1266	1349	1625	1688	1640	1683	1600	1314			
65	952	1803	3453	3115	3105	3171	3343	1711	948	1076	1298	1157	1101	1156	1282	1042			
70	669	1357	2735	2515	2276	2493	2941	1260	672	818	854	564	524	571	856	787			
75	427	998	1323	1224	817	1294	1396	852	435	571	400	315	293	317	408	547			
80	224	793	733	513	345	550	715	622	235	291	177	157	155	156	180	291			
85	70.2	429	353	204	153	217	347	348	82.1	82.0	68.9	75.3	76.6	74.0	65.7	80.4			
90	3.85	41.5	54.9	39.9	31.2	43.6	59.3	45.0	4.86	6.56	8.87	9.84	10.0	9.32	8.41	5.85			
95	4.48	3.77	3.97	3.95	3.91	3.98	3.98	3.88	4.48	6.25	8.13	9.31	9.35	9.45	8.41	6.53			
100	5.72	4.78	5.00	5.08	5.05	5.08	5.02	4.91	5.67	7.60	9.74	11.2	11.4	11.3	9.99	7.88			
105	7.08	5.93	6.14	6.33	6.36	6.34	6.19	6.10	7.03	9.04	11.3	13.0	13.5	13.1	11.6	9.32			
110	8.54	7.18	7.30	7.60	7.71	7.63	7.41	7.37	8.50	10.6	12.8	14.6	15.1	14.8	13.1	10.8			
115	10.1	8.52	8.48	8.81	8.99	8.87	8.62	8.71	10.0	12.2	14.3	16.0	16.6	16.3	14.6	12.2			
120	11.6	9.93	9.69	9.96	10.2	10.1	9.84	10.1	11.6	13.9	15.7	17.6	18.2	17.9	16.0	13.7			
125	13.2	11.4	11.0	11.2	11.3	11.3	11.1	11.7	13.2	15.5	17.4	19.1	19.5	19.3	17.5	15.2			
130	14.7	13.0	12.3	12.4	12.5	12.5	12.6	13.2	14.7	17.1	19.1	20.7	21.0	20.6	19.0	16.7			
135	16.3	14.6	13.8	13.6	13.8	13.9	14.2	14.9	16.1	18.6	20.7	22.3	22.4	21.9	20.4	18.2			
140	17.7	16.1	15.3	15.0	15.2	15.4	15.7	16.4	17.5	19.9	22.2	23.9	23.9	23.2	21.9	19.7			
145	19.0	17.6	16.8	16.4	16.6	16.9	17.2	17.8	18.9	20.9	23.3	25.0	25.3	24.4	23.1	20.9			
150	20.3	19.2	18.5	18.2	18.3	18.6	18.9	19.3	20.3	21.8	24.1	25.7	26.1	25.2	24.0	22.0			
155	21.7	20.7	20.1	19.8	20.1	20.3	20.4	20.8	21.6	22.7	24.6	26.0	26.5	25.6	24.7	22.9			
160	22.9	22.0	21.5	21.3	21.6	21.7	21.8	22.1	22.8	23.5	25.0	26.2	26.7	25.7	25.1	23.9			
165	24.1	23.3	22.8	22.7	23.0	23.1	23.2	23.5	23.9	24.4	25.5	26.3	26.7	26.0	25.7	24.8			
170	25.2	24.4	24.2	24.1	24.5	24.4	24.4	24.7	24.9	25.0	25.8	26.4	26.8	26.1	26.1	25.6			
175	25.8	25.2	25.1	25.2	25.6	25.4	25.4	25.6	25.8	25.6	26.2	26.5	26.9	26.4	26.4	26.2			
180	26.0	25.7	25.9	26.1	26.5	26.2	26.2	26.2	26.0	25.7	25.9	26.1	26.5	26.2	26.2	26.2			

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: