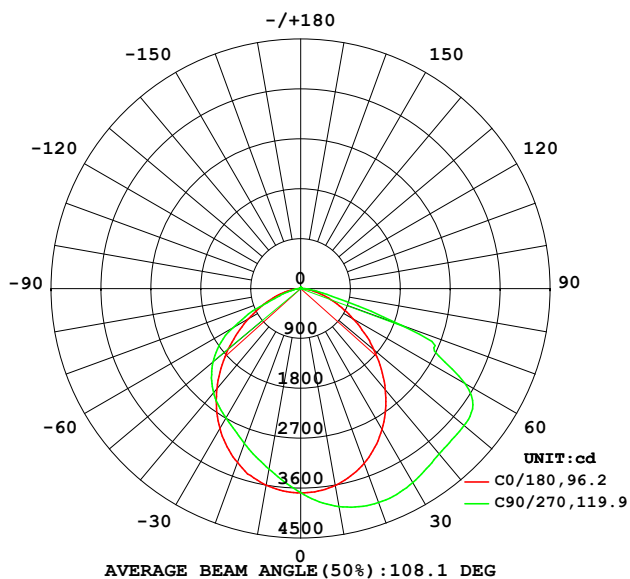
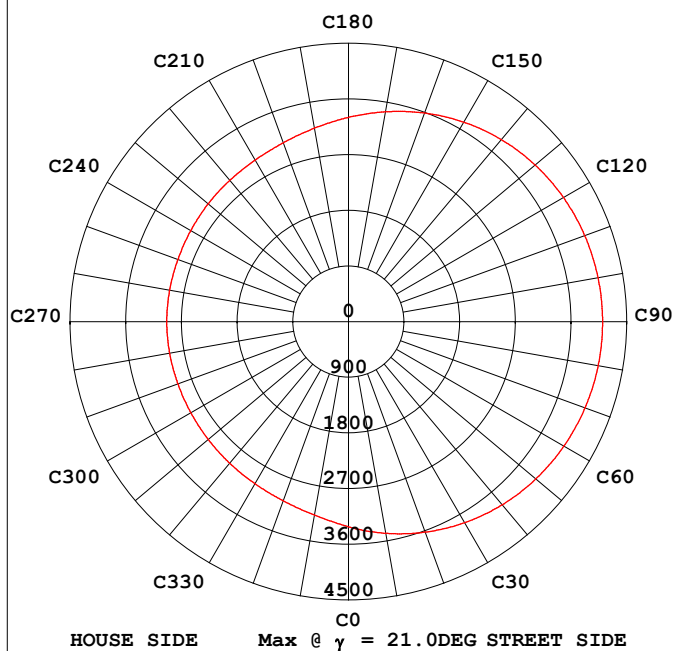


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.79V I:0.6768A P:80.828W PF:0.9971 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11329.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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: 140.16 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	4108	η street_up (%)	0.3
NOMINAL POWER (W)	80	LOR (%)	100.0	η street_down (%)	61.5
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	11329	η house_up (%)	0.4
NOMINAL FLUX (lm)	11329.2	MAXIMUM @ (C, γ)	90, 21.0	η house_down (%)	37.9
LAMPS INSIDE	1	η up (%)	0.6	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.4	SLI	

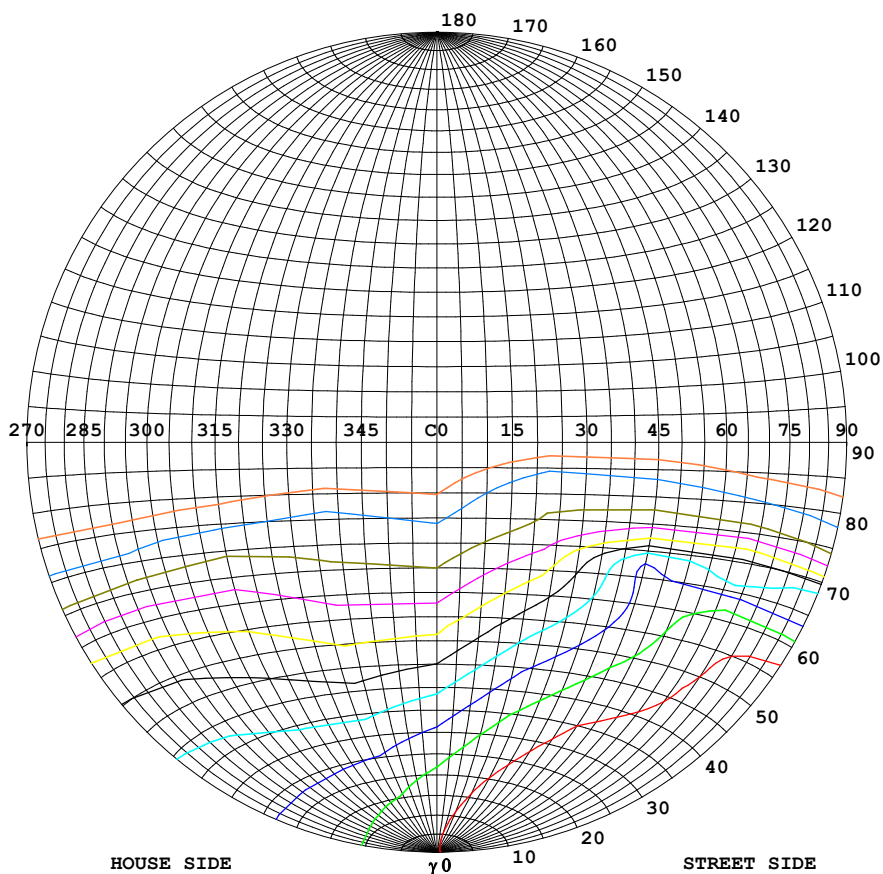
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:119.79V I:0.6768A P:80.828W PF:0.9971 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11329.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



Classification:

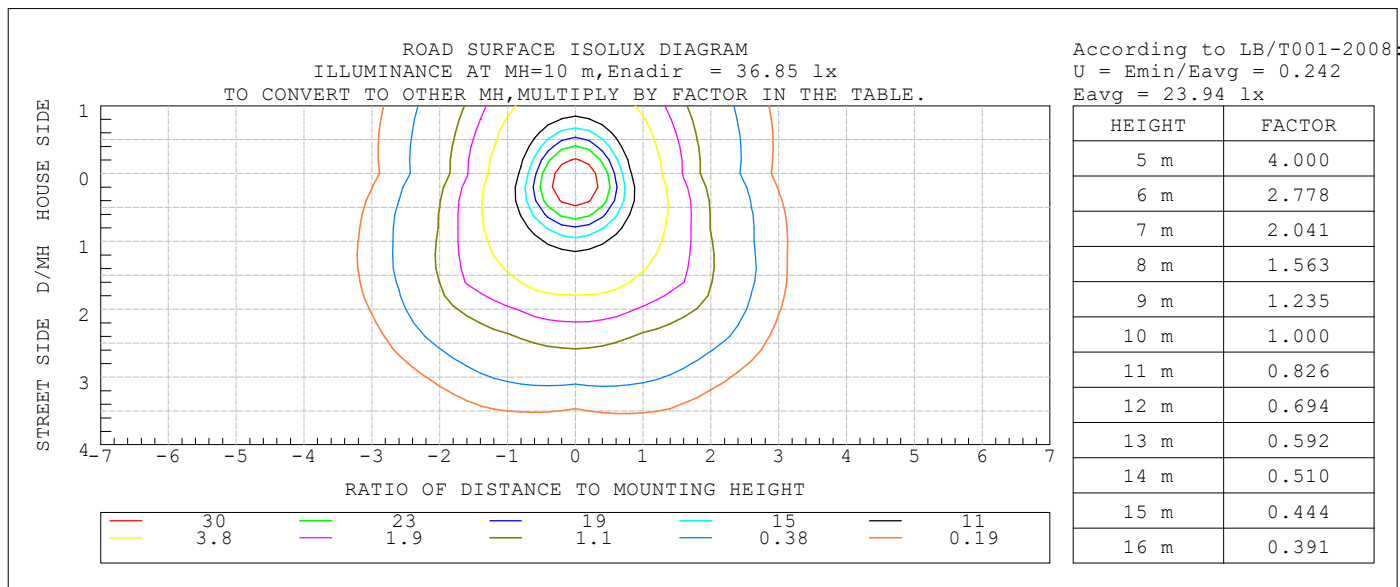
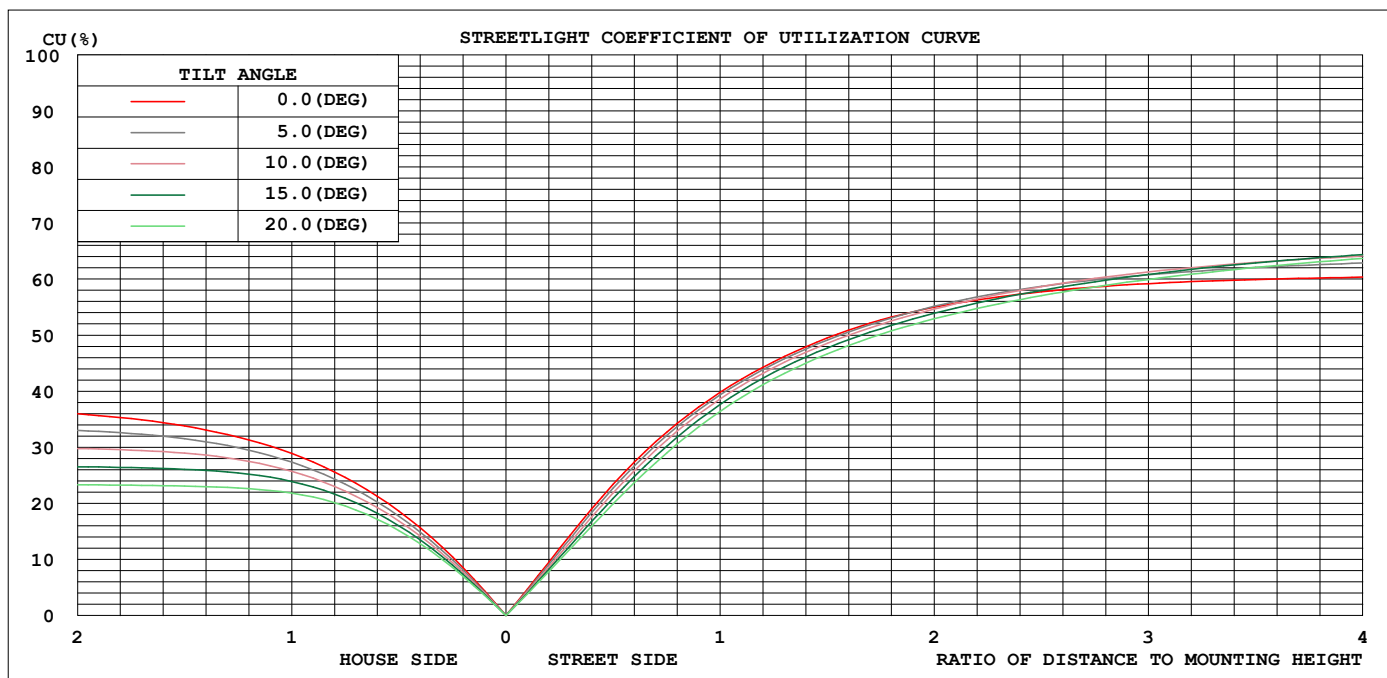
IES:Type III - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:60.12cd/klm
Max.At90:4.355cd/klm
Max.80-90:60.12cd/klm
NRB 5101:Limited[7.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4108
90%	3697
80%	3287
70%	2876
60%	2465
50%	2054
40%	1643
30%	1232
20%	822
10%	411
5%	205

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:119.79V I:0.6768A P:80.828W PF:0.9971 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11329.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:

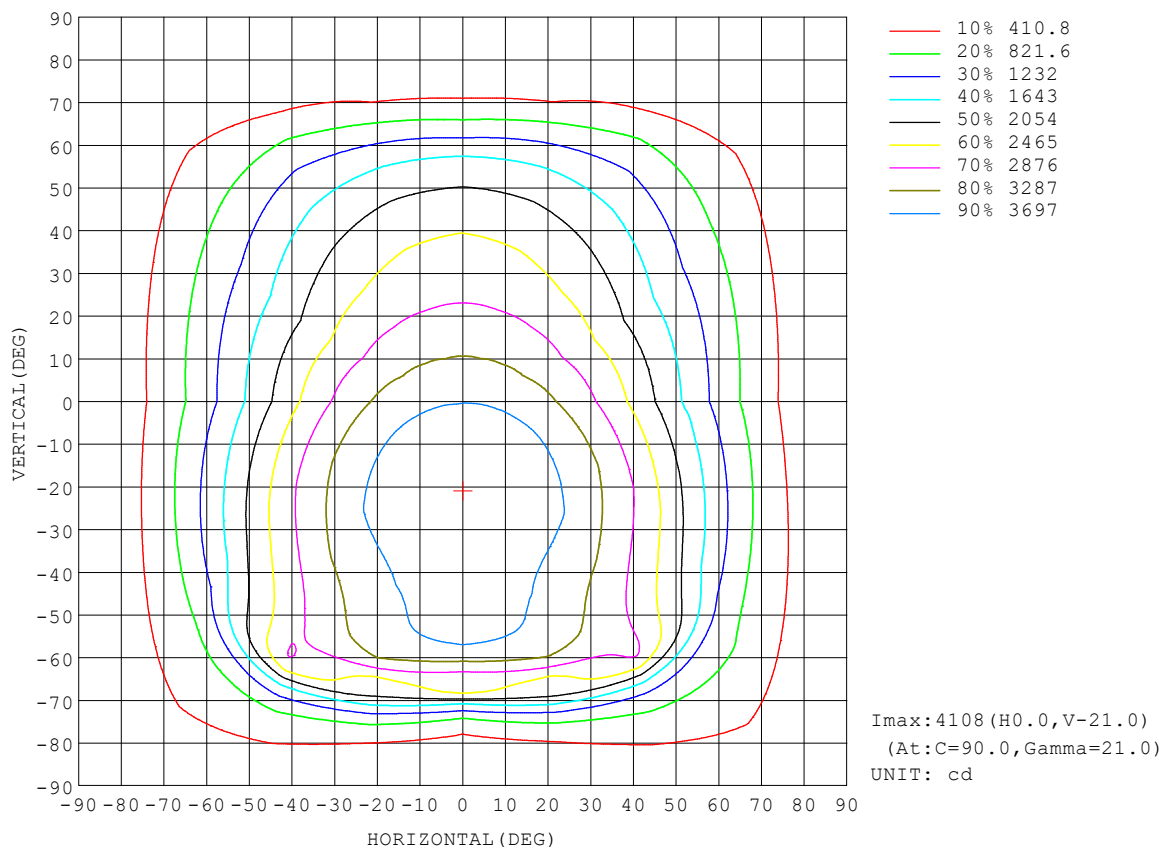
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3604	3882	3990	3870	3598	3372	3305	3371	0- 10	348.5	348.5	3.08,3.08
20	3353	3917	4107	3900	3339	3013	2973	3012	10- 20	1002	1351	11.9,11.9
30	2936	3803	4041	3783	2914	2623	2695	2617	20- 30	1534	2884	25.5,25.5
40	2375	3546	3892	3523	2350	2266	2447	2248	30- 40	1888	4773	42.1,42.1
50	1730	3187	3846	3150	1710	1873	2065	1851	40- 50	2042	6815	60.2,60.2
60	1098	2931	3418	2847	1086	1395	1412	1378	50- 60	1988	8803	77.7,77.7
70	575.9	2354	1946	2520	577.0	733.8	452.6	738.4	60- 70	1577	10380	91.6,91.6
80	193.9	628.3	295.8	611.8	200.8	151.5	133.5	155.9	70- 80	707.0	11087	97.9,97.9
90	3.115	47.62	26.28	49.33	4.138	7.485	8.595	7.247	80- 90	169.0	11256	99.4,99.4
100	4.603	3.990	4.026	4.049	4.867	8.328	9.700	8.565	90-100	7.075	11263	99.4,99.4
110	6.956	5.922	6.276	6.043	7.313	11.01	12.91	11.27	100-110	7.661	11271	99.5,99.5
120	9.546	7.911	8.355	8.068	9.999	13.45	15.63	13.78	110-120	9.568	11280	99.6,99.6
130	12.19	10.12	10.33	10.37	12.59	16.31	17.99	16.21	120-130	10.80	11291	99.7,99.7
140	14.69	12.63	12.60	13.02	15.00	18.85	20.36	18.56	130-140	11.21	11302	99.8,99.8
150	16.96	15.34	15.20	15.69	17.30	20.34	21.96	20.20	140-150	10.53	11313	99.9,99.9
160	19.22	17.85	17.94	18.14	19.41	20.92	22.31	21.07	150-160	8.649	11321	99.9,99.9
170	21.21	20.19	20.43	20.43	21.17	21.73	22.48	21.83	160-170	5.749	11327	100,100
180	21.91	21.74	22.19	22.01	21.94	21.76	22.21	22.01	170-180	2.052	11329	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

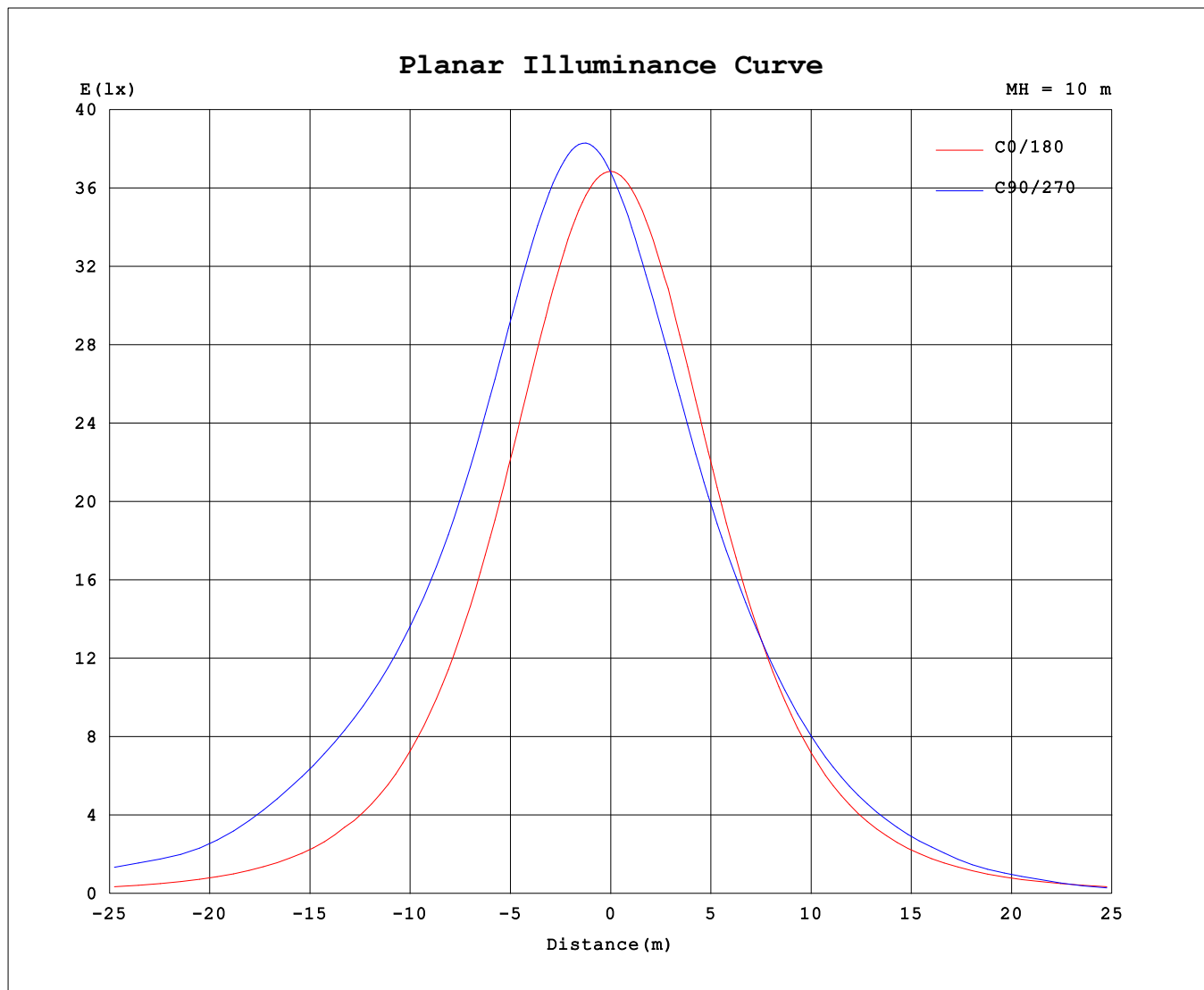
Test:U:119.79V I:0.6768A P:80.828W PF:0.9971 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11329.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



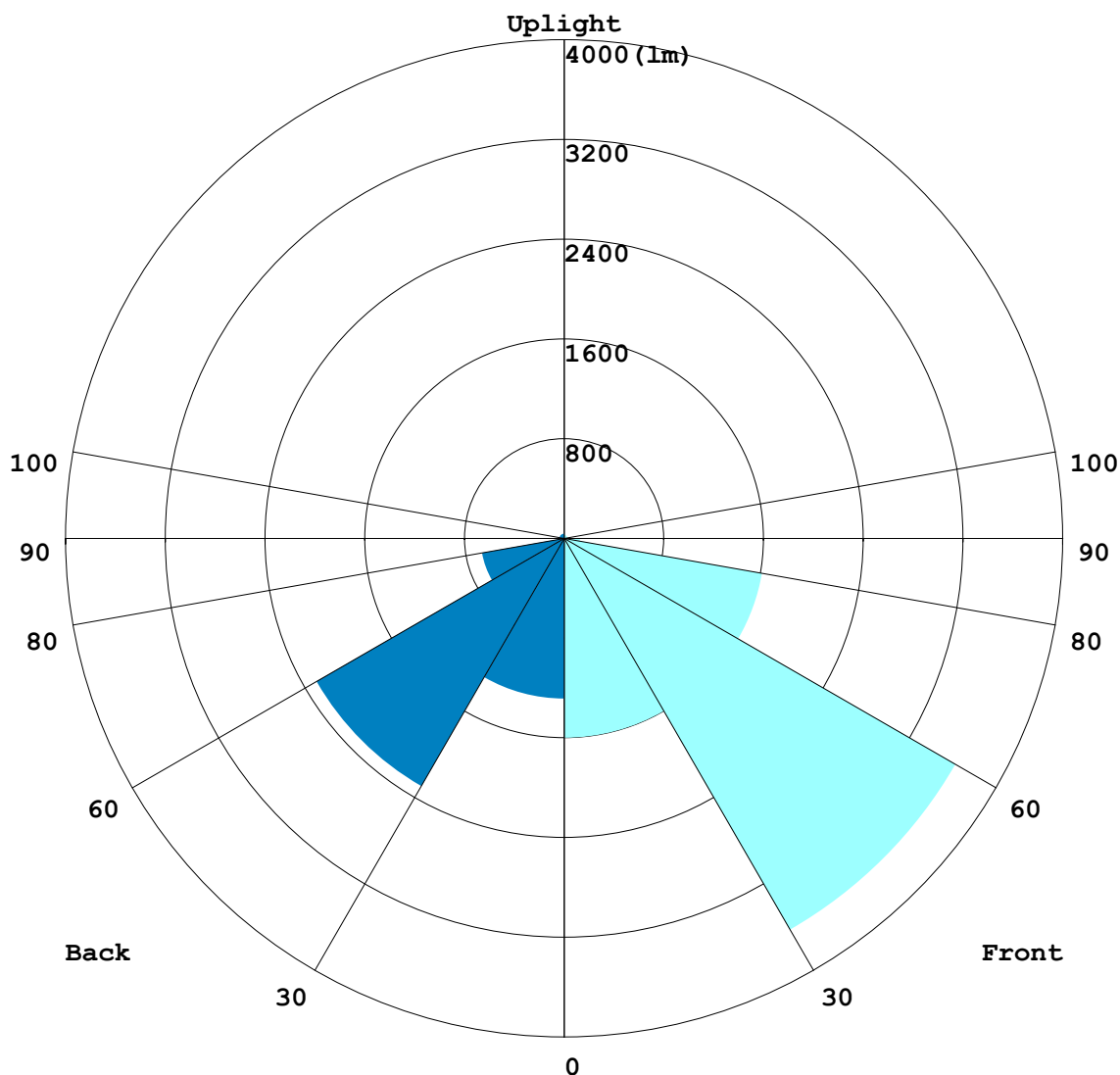
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:0.6768A P:80.828W PF:0.9971 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11329.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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:0.6768A P:80.828W PF:0.9971 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11329.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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)	1598.9	14.1
FM - Front-Medium(30-60)	3625.1	32.0
FH - Front-High(60-80)	1613.8	14.2
FVH - Front-Very High(80-90)	129.53	1.1
Total Forward Light	6998	61.8

BL - Back-Low(0-30)	1285.4	11.3
BM - Back-Medium(30-60)	2293.7	20.2
BH - Back-High(60-80)	670.02	5.9
BVH - Back-Very High(80-90)	39.488	0.3
Total Back Light	4331.2	38.2

UL - Uplight-Low(90-100)	7.0748	0.1
UH - Uplight-High(100-180)	66.217	0.6
Total Up Light	73.292	0.6

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4288.6	42.606	4331.2
Street Side	6967.3	30.686	6998

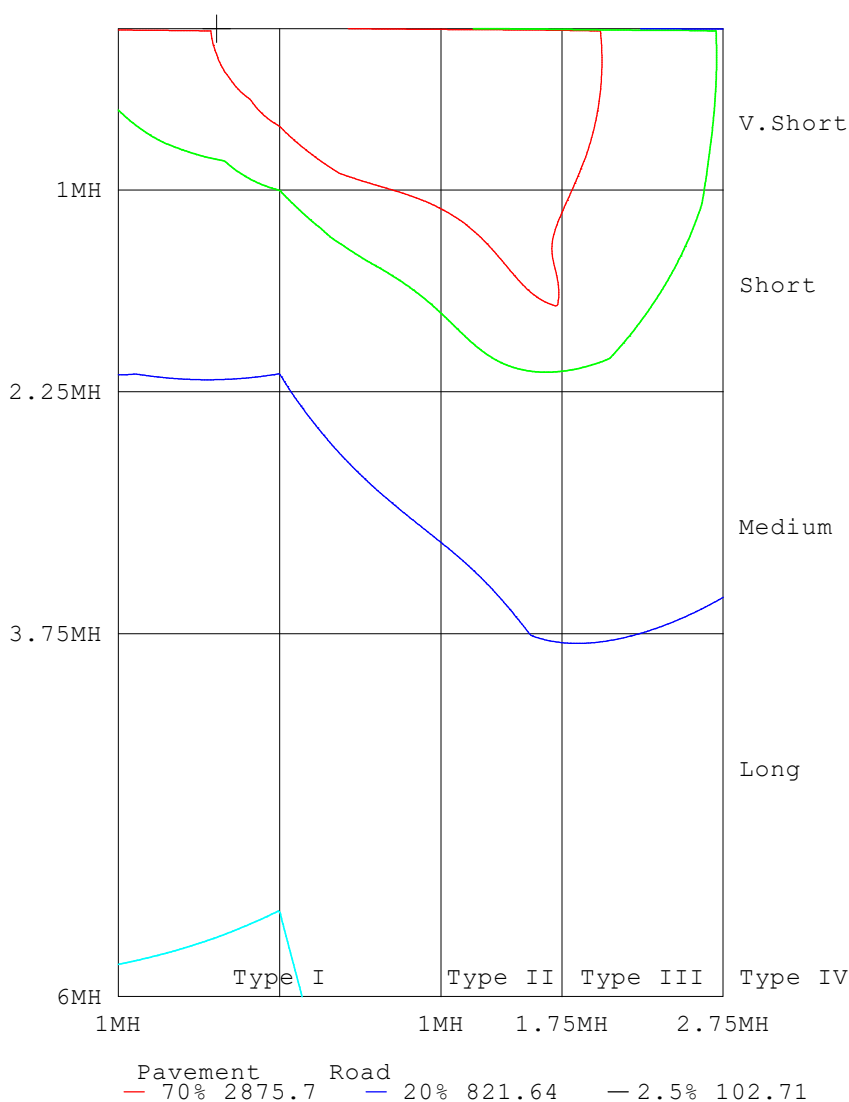
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:0.6768A P:80.828W PF:0.9971 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11329.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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:0.6768A P:80.828W PF:0.9971 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11329.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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	3685	3680	3682	3676	3680	3673	3677	3673	3685	3680	3682	3676	3680	3673	3677	3673			
5	3666	3737	3800	3839	3857	3835	3792	3725	3663	3586	3538	3494	3496	3494	3537	3582			
10	3604	3755	3882	3962	3990	3956	3870	3736	3598	3459	3372	3313	3305	3314	3371	3458			
15	3499	3732	3922	4033	4071	4026	3905	3710	3493	3295	3194	3142	3137	3143	3195	3298			
20	3353	3672	3917	4060	4107	4055	3900	3643	3339	3104	3013	2973	2973	2973	3012	3109			
25	3163	3575	3880	4049	4096	4040	3859	3541	3147	2888	2819	2807	2819	2805	2817	2893			
30	2936	3445	3803	3991	4041	3984	3783	3401	2914	2654	2623	2665	2695	2659	2617	2657			
35	2670	3273	3694	3902	3962	3890	3672	3224	2647	2401	2441	2538	2582	2530	2430	2401			
40	2375	3070	3546	3799	3892	3783	3523	3016	2350	2142	2266	2396	2447	2387	2248	2138			
45	2058	2833	3371	3720	3859	3699	3343	2771	2034	1891	2081	2224	2276	2212	2059	1876			
50	1730	2559	3187	3679	3846	3654	3150	2490	1710	1646	1873	2016	2065	2006	1851	1622			
55	1405	2253	3024	3652	3783	3632	2968	2176	1390	1401	1644	1764	1797	1758	1622	1375			
60	1098	1917	2931	3458	3418	3468	2847	1836	1086	1158	1395	1443	1412	1445	1378	1130			
65	819	1551	2968	2675	2666	2718	2878	1468	814	924	1115	996	949	997	1104	896			
70	576	1166	2354	2154	1946	2137	2520	1081	577	702	734	486	453	493	738	677			
75	367	857	1093	1051	701	1107	1199	732	373	490	355	272	250	274	367	471			
80	194	681	628	442	296	470	612	534	201	250	151	135	134	135	156	251			
85	60.6	367	302	175	131	186	297	298	69.8	70.4	59.1	64.8	66.3	64.1	56.9	69.2			
90	3.11	36.4	47.6	33.9	26.3	36.0	49.3	37.6	4.14	5.54	7.48	8.41	8.59	7.99	7.25	5.12			
95	3.60	2.99	3.13	3.11	3.06	3.15	3.18	3.10	3.86	5.33	6.94	7.94	7.97	8.04	7.20	5.63			
100	4.60	3.83	3.99	4.05	4.03	4.08	4.05	3.95	4.87	6.49	8.33	9.57	9.70	9.65	8.57	6.80			
105	5.74	4.78	4.93	5.10	5.11	5.13	5.02	4.92	6.03	7.73	9.71	11.1	11.5	11.2	9.97	8.03			
110	6.96	5.82	5.92	6.19	6.28	6.24	6.04	5.99	7.31	9.08	11.0	12.5	12.9	12.6	11.3	9.32			
115	8.23	6.94	6.90	7.20	7.36	7.27	7.05	7.11	8.65	10.5	12.2	13.7	14.2	14.0	12.5	10.6			
120	9.55	8.12	7.91	8.17	8.35	8.28	8.07	8.29	10.00	11.9	13.4	15.1	15.6	15.3	13.8	11.8			
125	10.9	9.37	9.00	9.18	9.34	9.29	9.16	9.58	11.3	13.3	14.9	16.3	16.8	16.5	15.0	13.1			
130	12.2	10.7	10.1	10.2	10.3	10.4	10.4	10.9	12.6	14.6	16.3	17.7	18.0	17.6	16.2	14.3			
135	13.5	12.1	11.4	11.3	11.4	11.5	11.7	12.3	13.8	15.8	17.7	19.0	19.1	18.6	17.3	15.6			
140	14.7	13.4	12.6	12.4	12.6	12.8	13.0	13.6	15.0	16.9	18.8	20.3	20.4	19.7	18.6	16.8			
145	15.8	14.6	13.9	13.6	13.8	14.0	14.3	14.8	16.2	17.8	19.7	21.1	21.3	20.6	19.5	17.8			
150	17.0	16.0	15.3	15.1	15.2	15.4	15.7	16.1	17.3	18.5	20.3	21.6	22.0	21.1	20.2	18.6			
155	18.1	17.2	16.7	16.5	16.6	16.8	17.0	17.3	18.4	19.2	20.7	21.8	22.2	21.4	20.7	19.4			
160	19.2	18.4	17.9	17.7	17.9	18.0	18.1	18.4	19.4	19.9	20.9	21.9	22.3	21.6	21.1	20.2			
165	20.2	19.5	19.1	18.9	19.2	19.2	19.3	19.7	20.3	20.6	21.4	22.1	22.4	21.7	21.5	21.0			
170	21.2	20.5	20.2	20.1	20.4	20.4	20.4	20.7	21.2	21.1	21.7	22.1	22.5	21.9	21.8	21.6			
175	21.7	21.2	21.0	21.1	21.4	21.2	21.3	21.5	21.8	21.6	21.9	22.2	22.6	22.1	22.2	22.0			
180	21.9	21.7	21.7	21.8	22.2	21.9	22.0	22.1	21.9	21.7	21.8	21.9	22.2	21.9	22.0	22.1			

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: