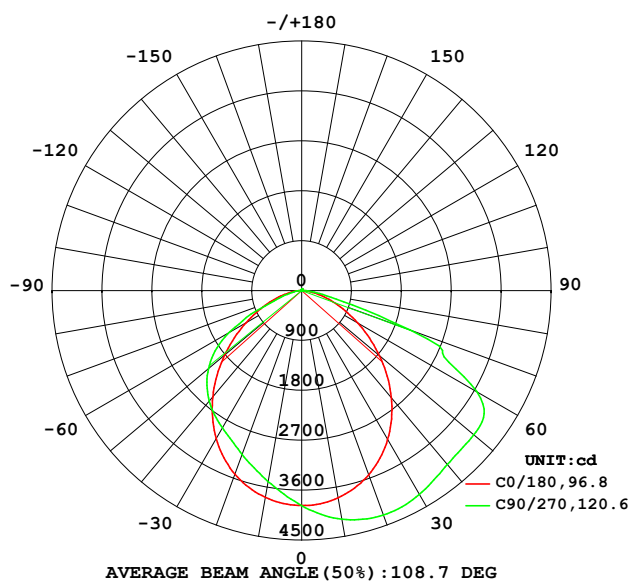
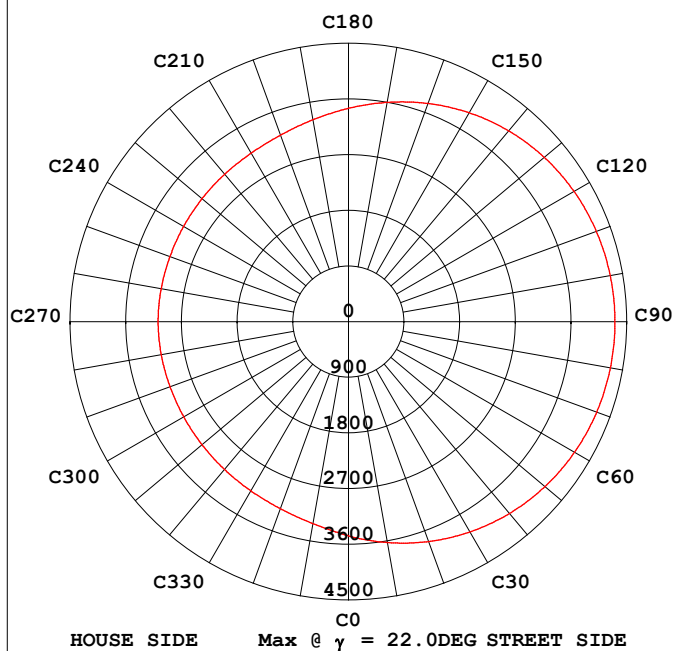


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.77V I:0.6746A P:80.559W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11990x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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: 148.83 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	4308	η street_up (%)	0.3
NOMINAL POWER (W)	80	LOR (%)	100.0	η street_down (%)	61.4
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	11990	η house_up (%)	0.4
NOMINAL FLUX (lm)	11990	MAXIMUM @ (C, γ)	90, 22.0	η house_down (%)	38.0
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

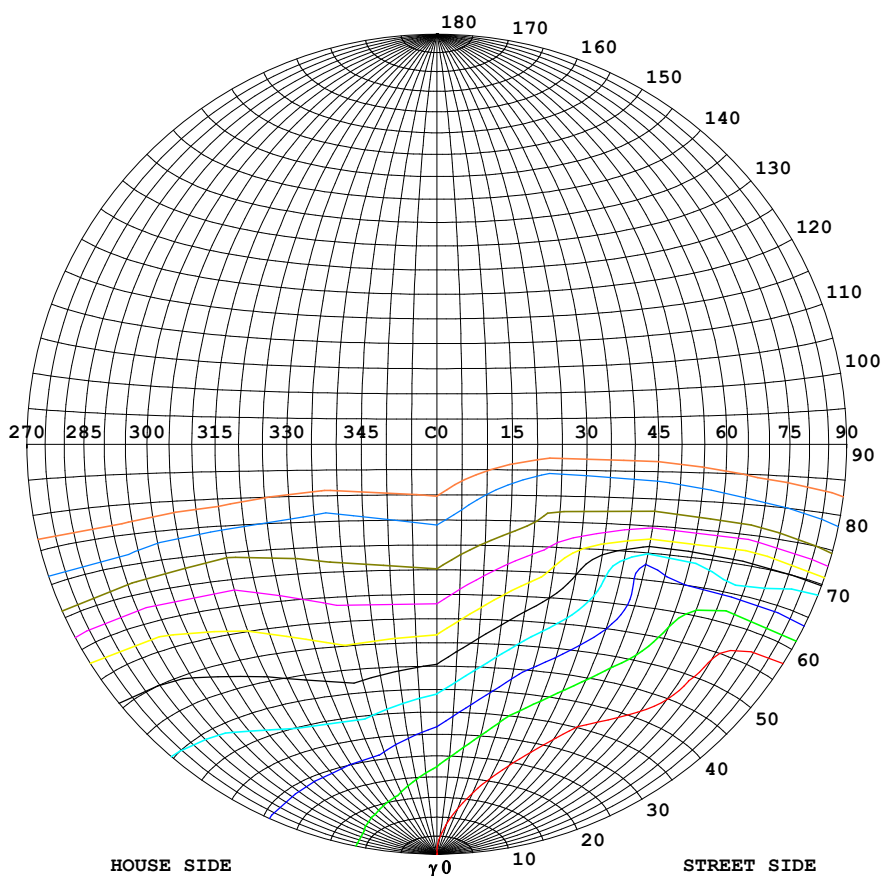
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:119.77V I:0.6746A P:80.559W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11990x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



Classification:

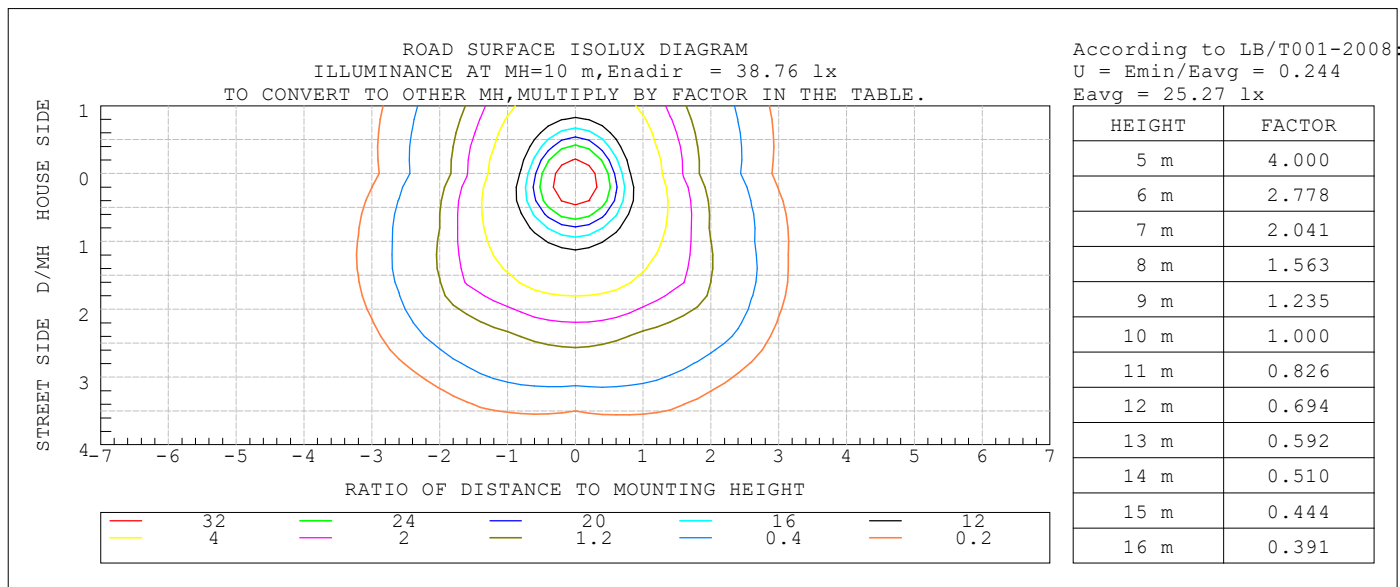
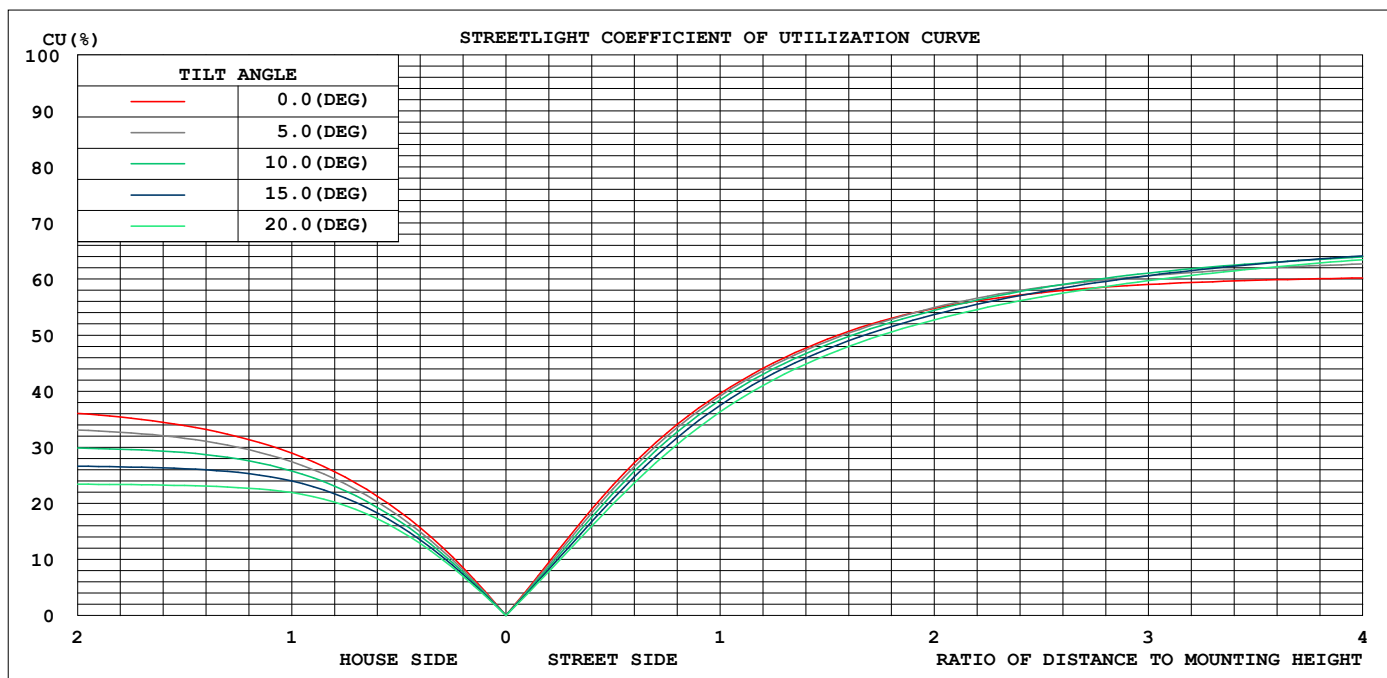
IES:Type III - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:60.29cd/klm
Max.At90:4.410cd/klm
Max.80-90:60.29cd/klm
NRB 5101:Limited[7.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	4308
90%	3877
80%	3446
70%	3016
60%	2585
50%	2154
40%	1723
30%	1292
20%	862
10%	431
5%	215

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:119.77V I:0.6746A P:80.559W PF:0.9970 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11990x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:

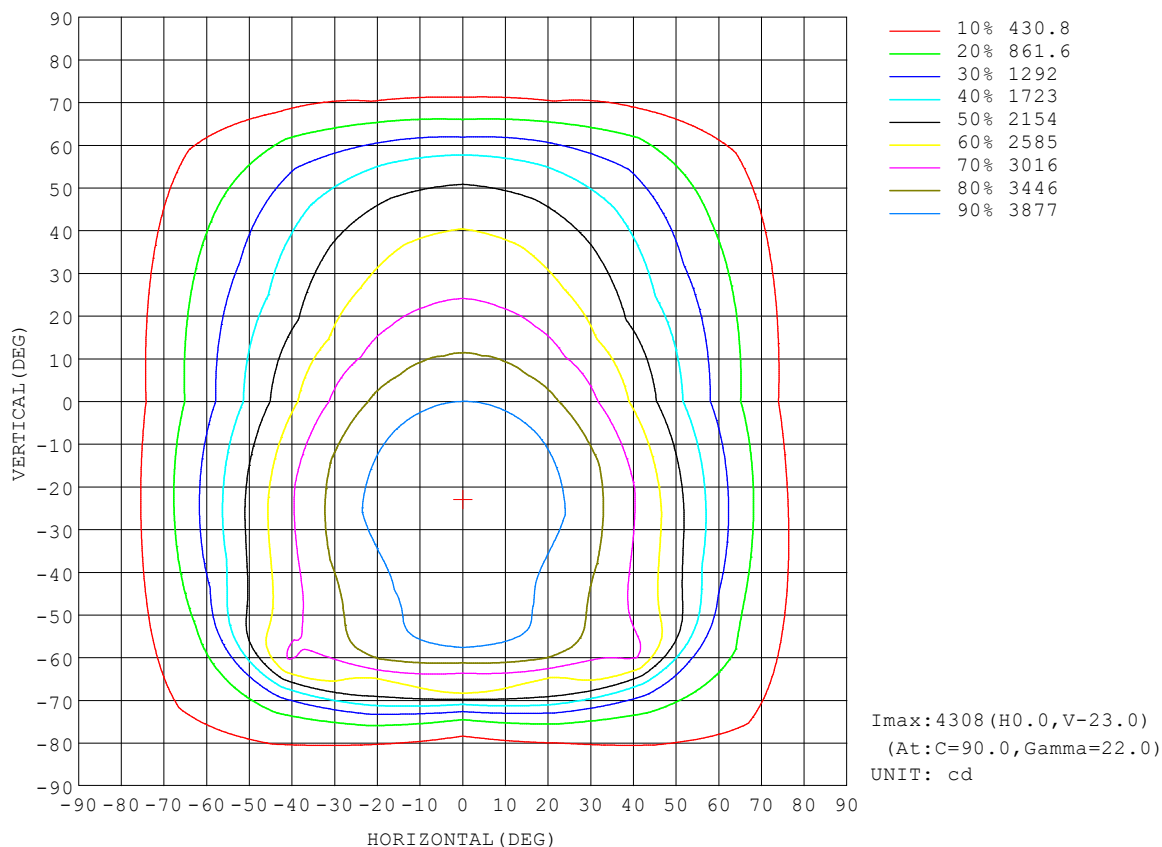
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3794	4075	4185	4063	3785	3562	3498	3565	0- 10	366.9	366.9	3.06,3.06
20	3537	4111	4306	4097	3524	3183	3145	3187	10- 20	1055	1422	11.9,11.9
30	3104	3995	4244	3976	3084	2780	2860	2774	20- 30	1616	3039	25.3,25.3
40	2517	3731	4093	3708	2494	2408	2596	2388	30- 40	1994	5033	42,42
50	1837	3362	4051	3321	1817	1994	2195	1969	40- 50	2159	7192	60,60
60	1166	3096	3645	3003	1157	1485	1499	1463	50- 60	2106	9298	77.5,77.5
70	611.2	2539	2082	2703	614.7	780.5	486.3	783.9	60- 70	1675	10972	91.5,91.5
80	204.4	666.3	329.5	653.8	213.9	161.1	144.4	165.2	70- 80	758.2	11731	97.8,97.8
90	3.263	48.72	28.27	52.88	4.488	8.204	9.321	7.838	80- 90	181.2	11912	99.3,99.3
100	4.831	4.209	4.237	4.252	5.235	9.008	10.50	9.234	90-100	7.566	11919	99.4,99.4
110	7.311	6.277	6.635	6.381	7.849	11.85	13.86	12.10	100-110	8.184	11928	99.5,99.5
120	10.05	8.396	8.861	8.543	10.72	14.49	16.74	14.76	110-120	10.21	11938	99.6,99.6
130	12.85	10.75	10.97	10.99	13.48	17.53	19.28	17.38	120-130	11.53	11949	99.7,99.7
140	15.51	13.44	13.40	13.83	16.01	20.14	21.79	19.86	130-140	11.95	11961	99.8,99.8
150	17.92	16.31	16.15	16.69	18.46	21.71	23.47	21.59	140-150	11.21	11973	99.9,99.9
160	20.31	18.97	19.06	19.29	20.61	22.39	23.68	22.46	150-160	9.200	11982	99.9,99.9
170	22.44	21.42	21.69	21.69	22.45	23.09	23.84	23.20	160-170	6.101	11988	100,100
180	23.23	23.07	23.51	23.34	23.24	23.11	23.55	23.34	170-180	2.176	11990	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

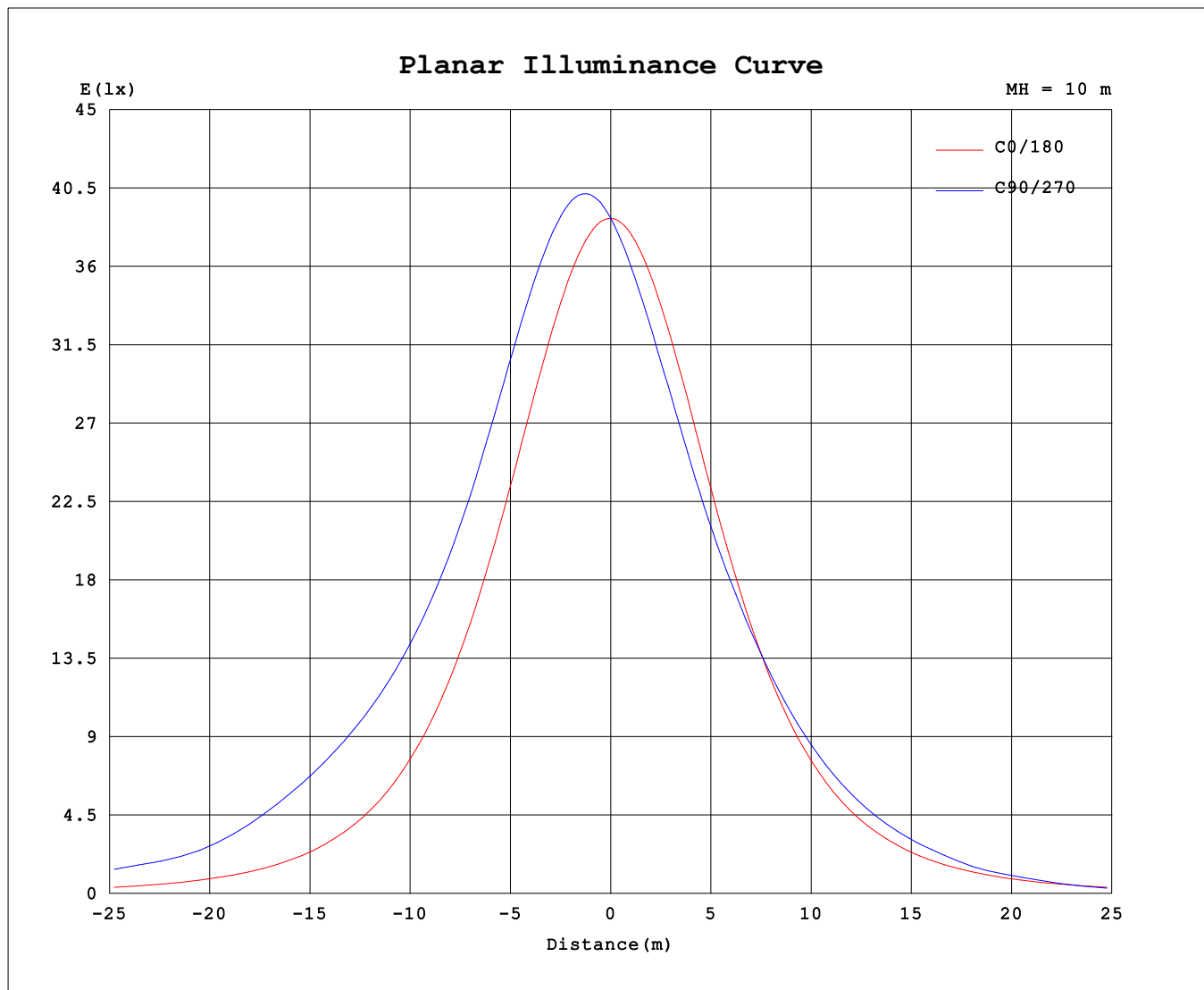
Test:U:119.77V I:0.6746A P:80.559W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11990x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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

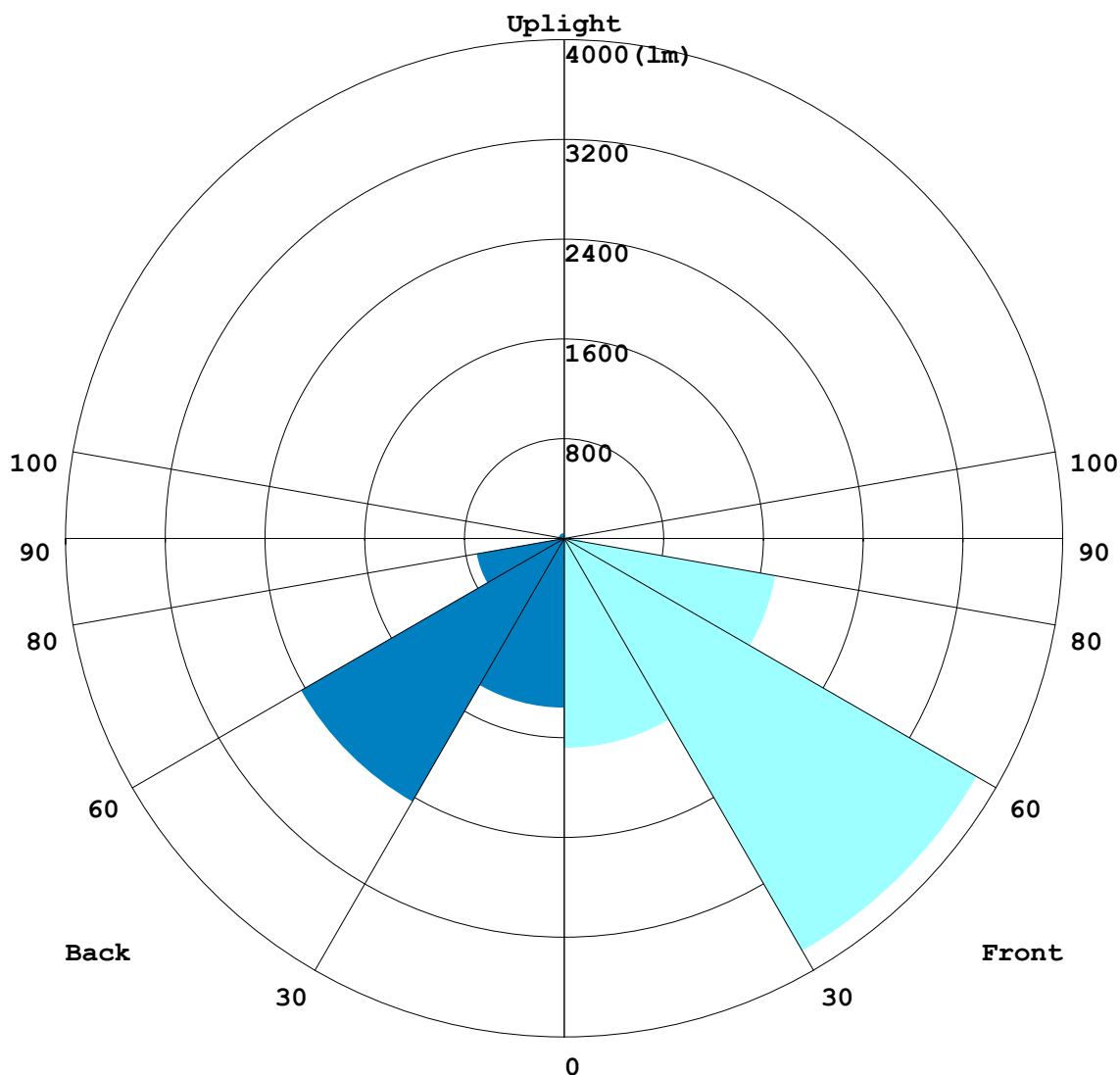


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:119.77V I:0.6746A P:80.559W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11990x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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:119.77V I:0.6746A P:80.559W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11990x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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)	1679.7	14.0
FM - Front-Medium(30-60)	3821.6	31.9
FH - Front-High(60-80)	1720.2	14.3
FVH - Front-Very High(80-90)	138.87	1.2
Total Forward Light	7392.9	61.7

BL - Back-Low(0-30)	1359.1	11.3
BM - Back-Medium(30-60)	2437	20.3
BH - Back-High(60-80)	713.02	5.9
BVH - Back-Very High(80-90)	42.281	0.4
Total Back Light	4597.1	38.3

UL - Uplight-Low(90-100)	7.5662	0.1
UH - Uplight-High(100-180)	70.563	0.6
Total Up Light	78.129	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4551.5	45.628	4597.1
Street Side	7360.4	32.501	7392.9

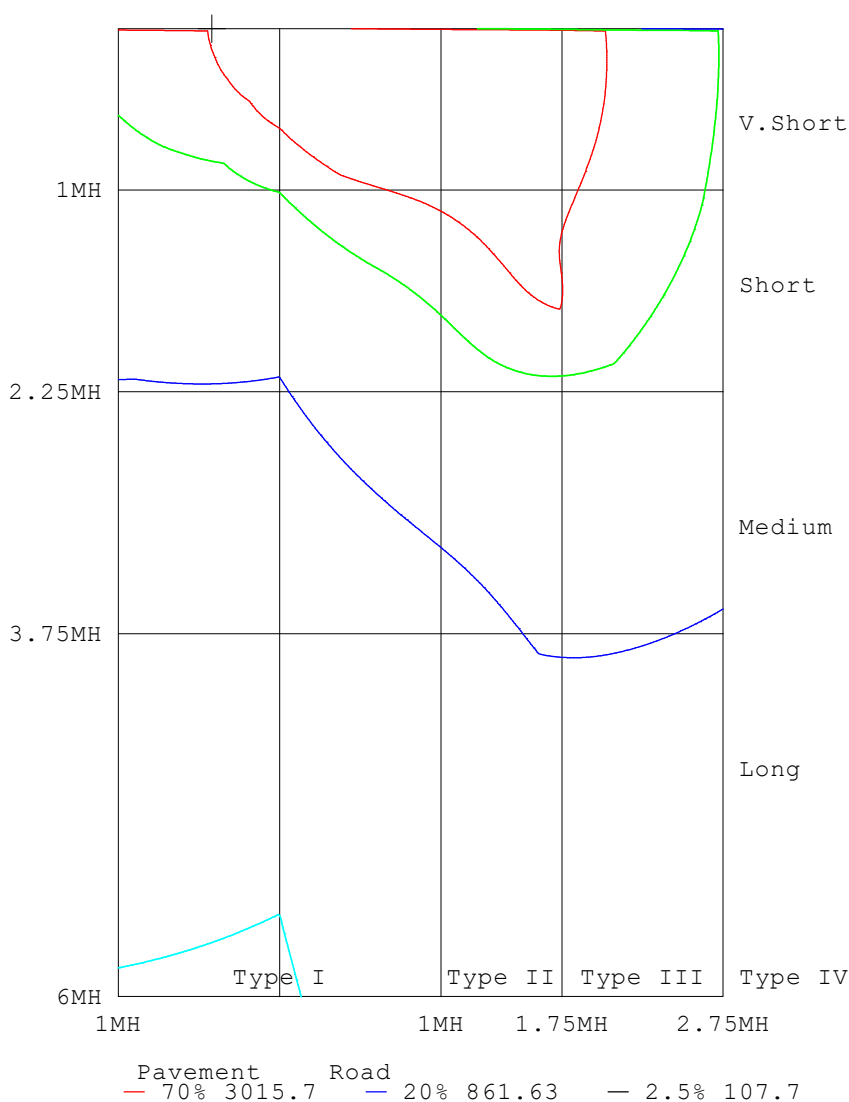
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:119.77V I:0.6746A P:80.559W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11990x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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:119.77V I:0.6746A P:80.559W PF:0.9970 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11990x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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	3876	3875	3877	3872	3878	3870	3875	3872	3876	3875	3877	3872	3878	3870	3875	3872			
5	3857	3930	3995	4033	4050	4029	3988	3921	3853	3779	3729	3690	3687	3691	3732	3783			
10	3794	3946	4075	4154	4185	4150	4063	3931	3785	3649	3562	3499	3498	3502	3565	3655			
15	3688	3921	4113	4230	4268	4224	4101	3900	3677	3480	3372	3320	3315	3321	3378	3489			
20	3537	3856	4111	4261	4306	4256	4097	3831	3524	3280	3183	3146	3145	3143	3187	3291			
25	3341	3755	4073	4248	4299	4240	4054	3725	3324	3054	2983	2972	2989	2969	2983	3062			
30	3104	3618	3995	4191	4244	4184	3976	3580	3084	2810	2780	2824	2860	2819	2774	2815			
35	2827	3448	3882	4098	4163	4089	3862	3398	2806	2546	2590	2691	2740	2684	2578	2547			
40	2517	3234	3731	3995	4093	3982	3708	3181	2494	2277	2408	2544	2596	2532	2388	2270			
45	2183	2987	3550	3914	4058	3893	3521	2924	2161	2012	2214	2364	2419	2351	2190	1995			
50	1837	2700	3362	3871	4051	3843	3321	2631	1817	1751	1994	2142	2195	2130	1969	1727			
55	1494	2378	3193	3852	4001	3823	3132	2302	1479	1489	1751	1876	1909	1866	1727	1466			
60	1166	2025	3096	3704	3645	3708	3003	1944	1157	1235	1485	1546	1499	1533	1463	1206			
65	870	1642	3134	2876	2834	2937	3031	1559	867	986	1188	1061	1008	1059	1171	956			
70	611	1240	2539	2263	2082	2241	2703	1154	615	748	780	521	486	527	784	720			
75	389	911	1227	1133	788	1192	1286	783	397	519	376	292	270	292	388	499			
80	204	723	666	489	330	521	654	569	214	265	161	146	144	145	165	266			
85	63.3	384	320	194	142	207	315	317	74.3	75.1	63.4	70.3	71.8	68.9	60.8	73.2			
90	3.26	37.5	48.7	36.9	28.3	40.1	52.9	40.2	4.49	6.06	8.20	9.02	9.32	8.62	7.84	5.42			
95	3.76	3.13	3.29	3.25	3.20	3.29	3.32	3.24	4.15	5.75	7.51	8.59	8.64	8.70	7.78	6.02			
100	4.83	4.03	4.21	4.27	4.24	4.29	4.25	4.14	5.23	7.01	9.01	10.3	10.5	10.4	9.23	7.28			
105	6.02	5.03	5.23	5.39	5.41	5.42	5.29	5.18	6.49	8.33	10.5	12.0	12.4	12.1	10.7	8.60			
110	7.31	6.14	6.28	6.54	6.64	6.59	6.38	6.32	7.85	9.77	11.8	13.4	13.9	13.6	12.1	9.95			
115	8.66	7.31	7.32	7.62	7.79	7.71	7.45	7.50	9.28	11.2	13.2	14.8	15.3	15.0	13.4	11.3			
120	10.1	8.57	8.40	8.66	8.86	8.78	8.54	8.77	10.7	12.8	14.5	16.2	16.7	16.4	14.8	12.6			
125	11.5	9.90	9.55	9.74	9.92	9.86	9.70	10.2	12.1	14.3	16.0	17.5	18.0	17.7	16.1	14.0			
130	12.8	11.3	10.8	10.8	11.0	11.0	11.0	11.6	13.5	15.7	17.5	19.0	19.3	18.9	17.4	15.3			
135	14.2	12.7	12.1	12.0	12.1	12.3	12.4	13.0	14.7	16.9	18.9	20.3	20.5	19.9	18.6	16.6			
140	15.5	14.1	13.4	13.2	13.4	13.6	13.8	14.4	16.0	18.0	20.1	21.7	21.8	21.1	19.9	17.9			
145	16.7	15.5	14.8	14.5	14.6	14.9	15.2	15.7	17.2	19.0	21.1	22.6	22.8	22.0	20.8	19.0			
150	17.9	16.9	16.3	16.0	16.2	16.4	16.7	17.1	18.5	19.8	21.7	23.1	23.5	22.6	21.6	19.9			
155	19.2	18.2	17.7	17.5	17.7	17.9	18.0	18.4	19.6	20.5	22.1	23.3	23.6	22.8	22.1	20.7			
160	20.3	19.4	19.0	18.8	19.1	19.2	19.3	19.6	20.6	21.1	22.4	23.3	23.7	22.9	22.5	21.5			
165	21.4	20.6	20.2	20.1	20.4	20.4	20.5	20.8	21.6	21.8	22.8	23.4	23.7	23.1	22.9	22.3			
170	22.4	21.7	21.4	21.3	21.7	21.6	21.7	22.0	22.4	22.4	23.1	23.5	23.8	23.2	23.2	22.9			
175	23.0	22.5	22.3	22.3	22.7	22.5	22.6	22.8	23.1	22.9	23.3	23.5	23.9	23.4	23.5	23.4			
180	23.2	22.9	23.1	23.2	23.5	23.2	23.3	23.4	23.2	23.0	23.1	23.2	23.5	23.2	23.3	23.4			

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: