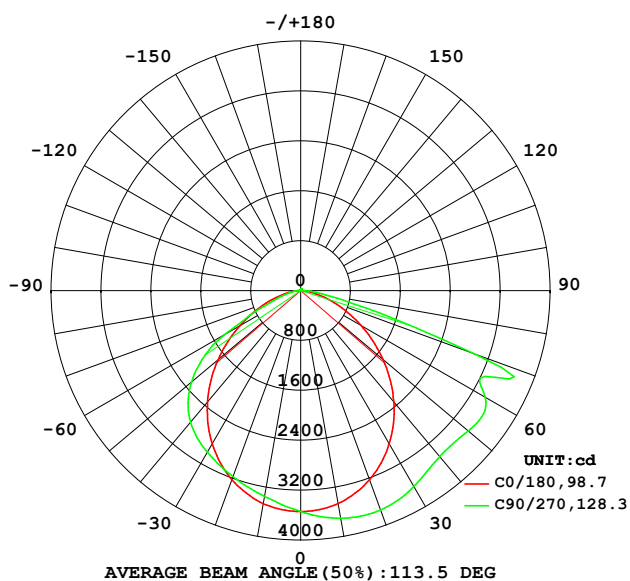
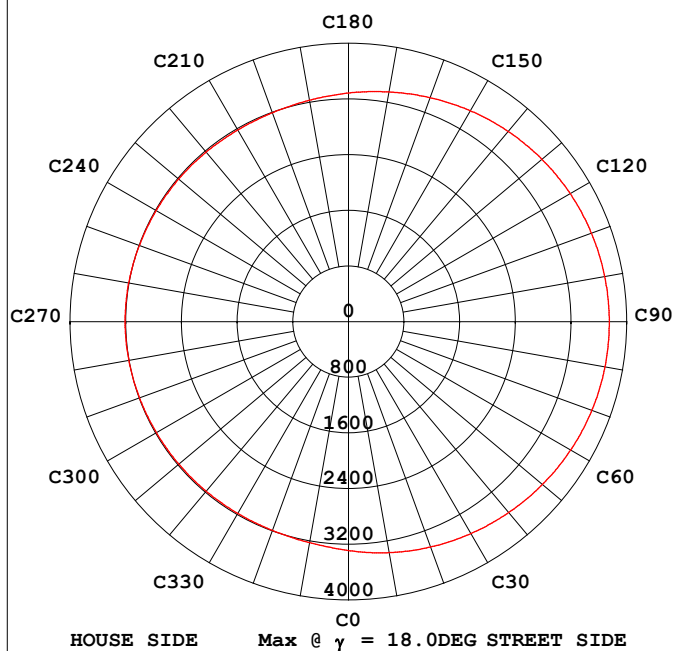


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.71V I:0.6767A P:80.767W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11220.4x1 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: 138.92 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	3748	η street_up (%)	0.3
NOMINAL POWER (W)	80	LOR (%)	100.0	η street_down (%)	58.7
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	11220	η house_up (%)	0.4
NOMINAL FLUX (lm)	11220.4	MAXIMUM @ (C, γ)	90, 18.0	η house_down (%)	40.6
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

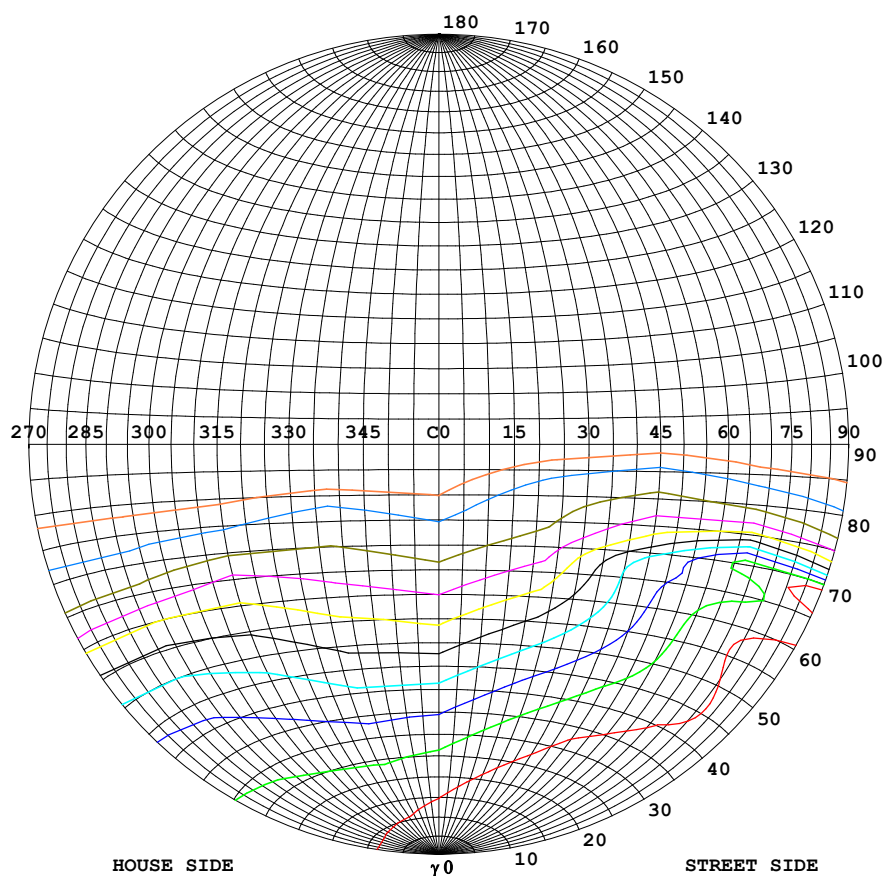
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:119.71V I:0.6767A P:80.767W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11220.4x1 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:



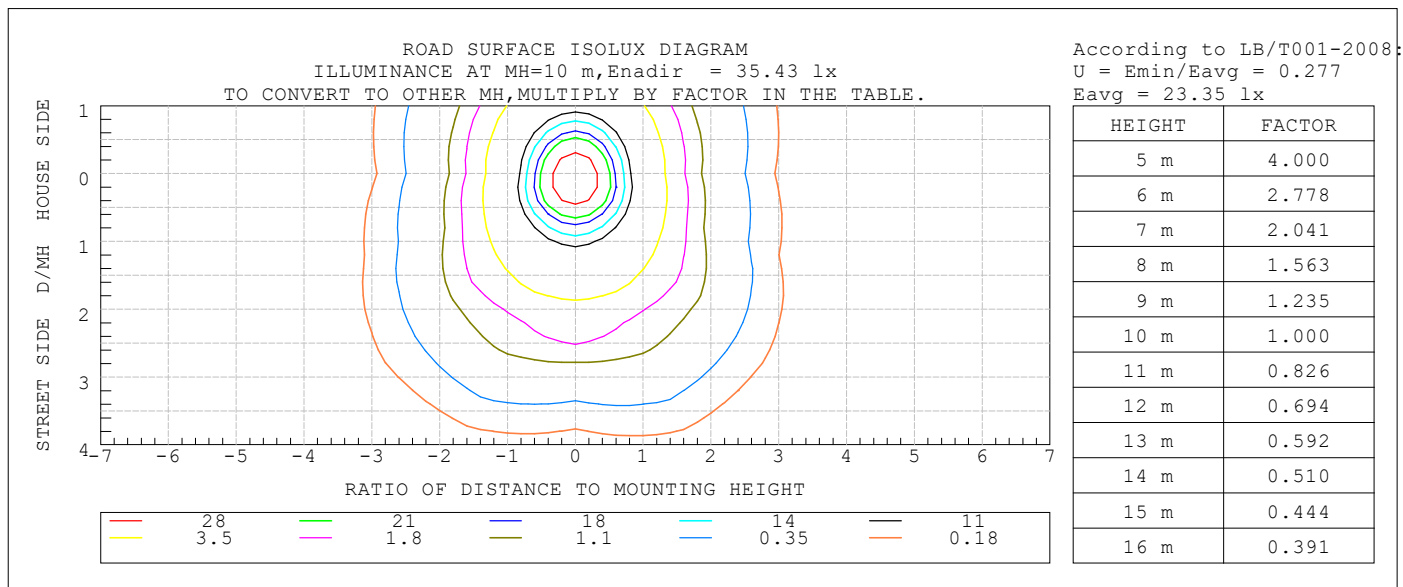
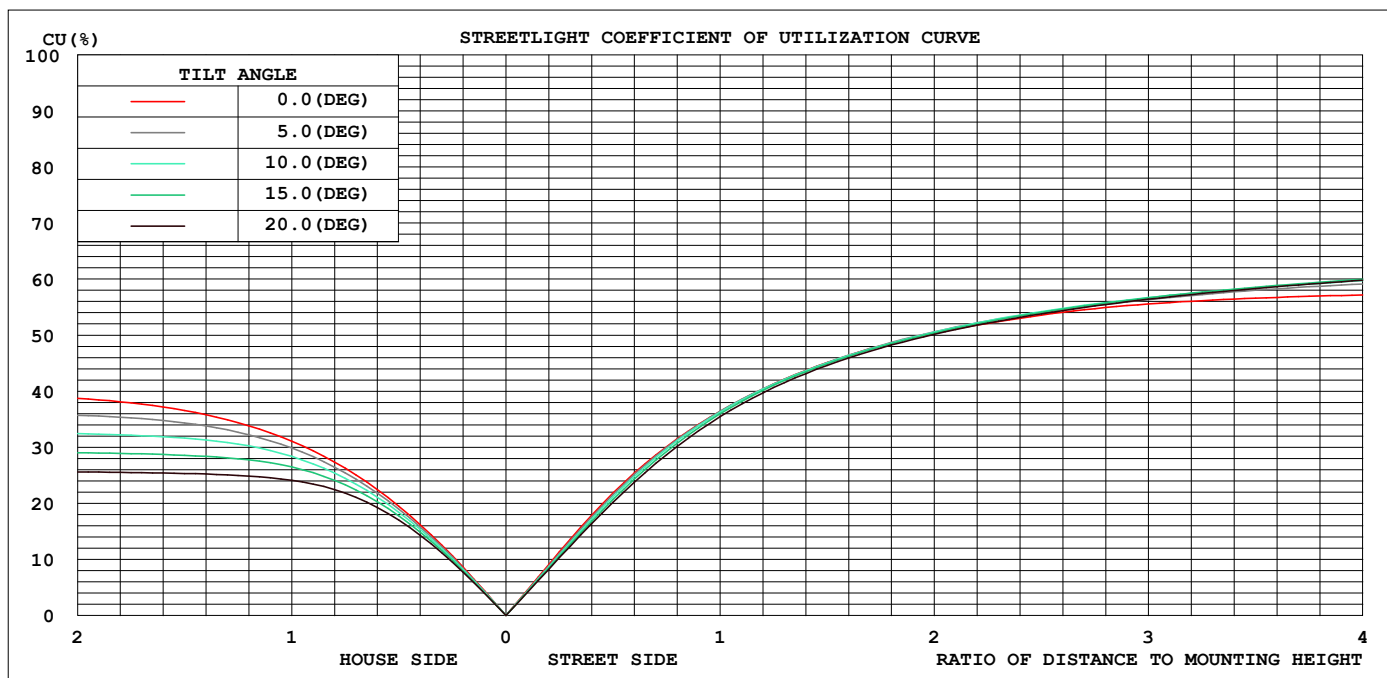
Classification:

IES:Type IV - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:76.41cd/klm
Max.At90:7.927cd/klm
Max.80-90:76.41cd/klm
NRB 5101:Limited[7.6%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3748
90%	3373
80%	2998
70%	2624
60%	2249
50%	1874
40%	1499
30%	1124
20%	750
10%	375
5%	187

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:119.71V I:0.6767A P:80.767W PF:0.9970 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:11220.4x1 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:		

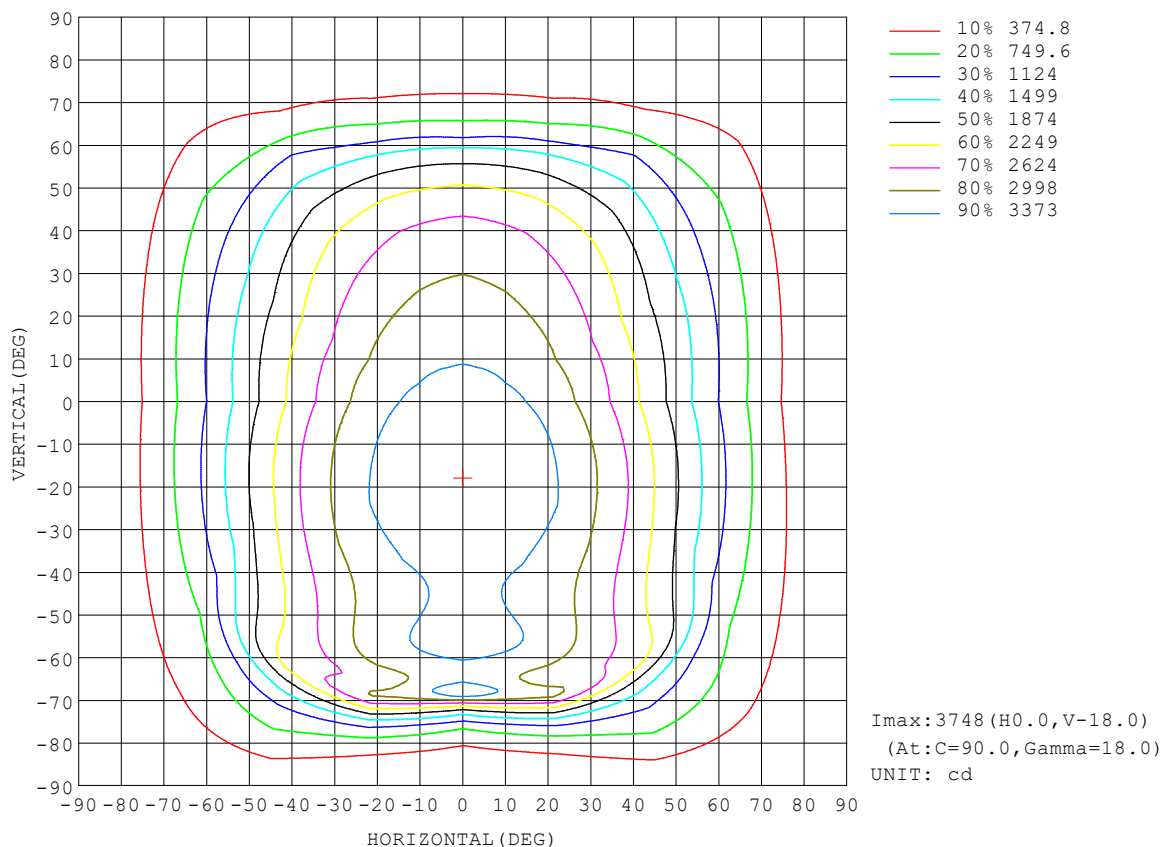
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3465	3630	3705	3624	3468	3364	3349	3363	0- 10	335.7	335.7	2.99,2.99
20	3228	3595	3744	3584	3226	3139	3175	3133	10- 20	970.6	1306	11.6,11.6
30	2839	3432	3628	3415	2837	2856	2994	2843	20- 30	1495	2801	25,25
40	2325	3139	3472	3119	2324	2534	2748	2512	30- 40	1847	4648	41.4,41.4
50	1730	2775	3504	2737	1733	2121	2287	2096	40- 50	1994	6642	59.2,59.2
60	1116	2537	3414	2452	1124	1549	1395	1535	50- 60	1928	8570	76.4,76.4
70	577.8	2108	2963	2187	592.9	674.0	447.1	691.8	60- 70	1575	10146	90.4,90.4
80	182.6	857.4	415.6	794.9	199.3	154.9	153.8	156.0	70- 80	807.3	10953	97.6,97.6
90	3.161	86.09	34.59	88.94	4.101	7.803	10.11	7.336	80- 90	194.3	11147	99.3,99.3
100	4.576	4.461	4.393	4.452	4.651	7.893	10.16	8.103	90-100	7.816	11155	99.4,99.4
110	6.854	6.595	6.829	6.649	7.010	10.23	12.70	10.44	100-110	7.661	11163	99.5,99.5
120	9.335	8.694	9.227	8.800	9.538	12.76	15.05	12.71	110-120	9.493	11172	99.6,99.6
130	11.86	10.91	11.31	11.07	12.01	15.49	17.06	15.07	120-130	10.68	11183	99.7,99.7
140	14.29	13.28	13.45	13.63	14.37	17.68	19.44	17.47	130-140	11.05	11194	99.8,99.8
150	16.51	15.87	15.95	16.22	16.66	18.96	20.73	18.95	140-150	10.32	11204	99.9,99.9
160	18.75	18.22	18.51	18.46	18.68	19.84	20.90	19.92	150-160	8.460	11213	99.9,99.9
170	20.65	20.20	20.54	20.33	20.45	20.74	21.38	20.86	160-170	5.608	11218	100,100
180	21.34	21.28	21.66	21.40	21.32	21.29	21.67	21.41	170-180	2.000	11220	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

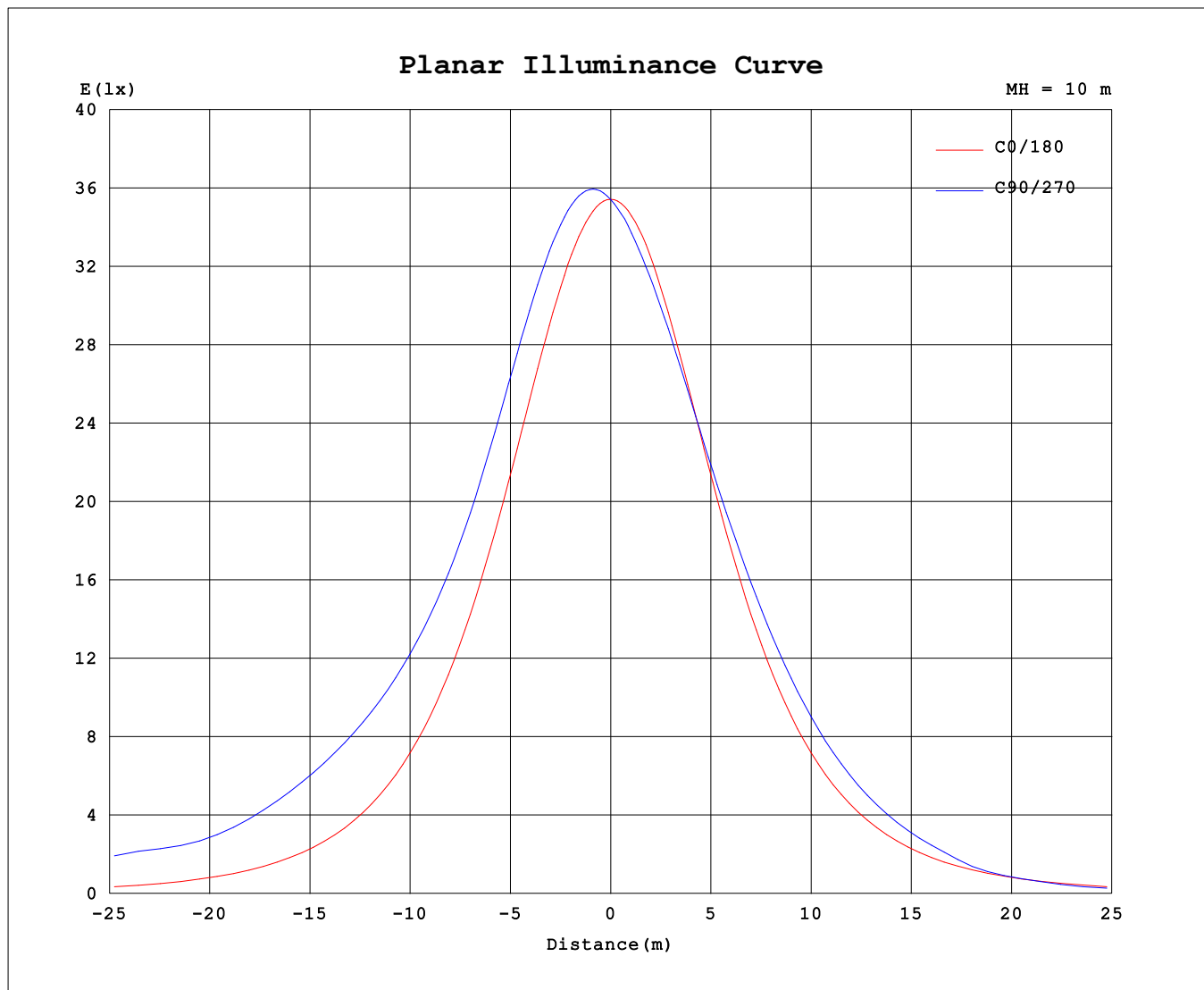
Test:U:119.71V I:0.6767A P:80.767W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11220.4x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



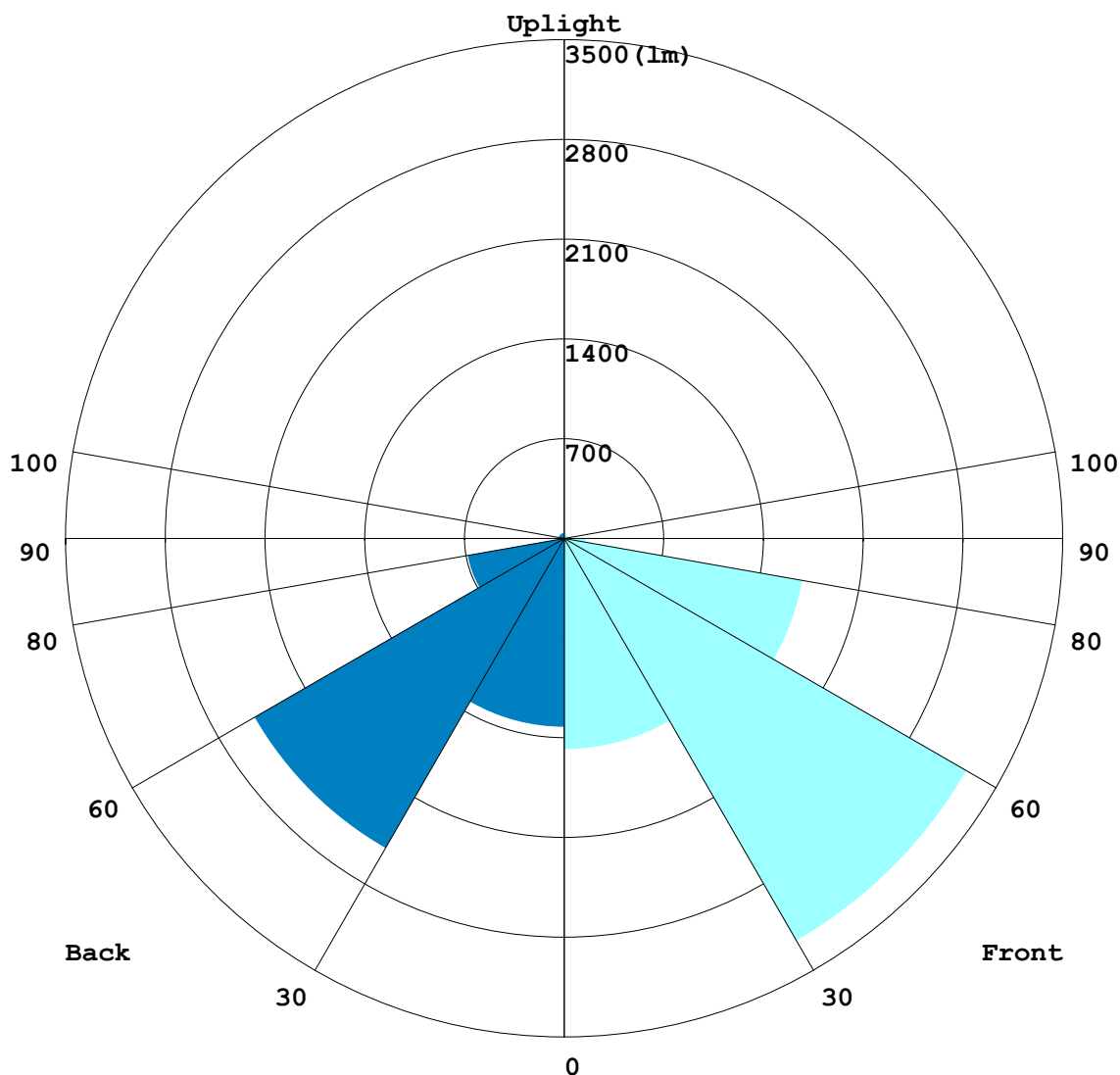
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators: MA NENG
Test Date: 2026-07-25

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:119.71V I:0.6767A P:80.767W PF:0.9970 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11220.4x1 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:119.71V I:0.6767A P:80.767W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11220.4x1 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)	1479	13.2
FM - Front-Medium(30-60)	3260	29.1
FH - Front-High(60-80)	1697	15.1
FVH - Front-Very High(80-90)	152.52	1.4
Total Forward Light	6621.1	59.0

BL - Back-Low(0-30)	1322.3	11.8
BM - Back-Medium(30-60)	2509	22.4
BH - Back-High(60-80)	685.71	6.1
BVH - Back-Very High(80-90)	41.763	0.4
Total Back Light	4599.2	41.0

UL - Uplight-Low(90-100)	7.8163	0.1
UH - Uplight-High(100-180)	65.27	0.6
Total Up Light	73.087	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4558.7	40.489	4599.2
Street Side	6588.6	32.597	6621.1

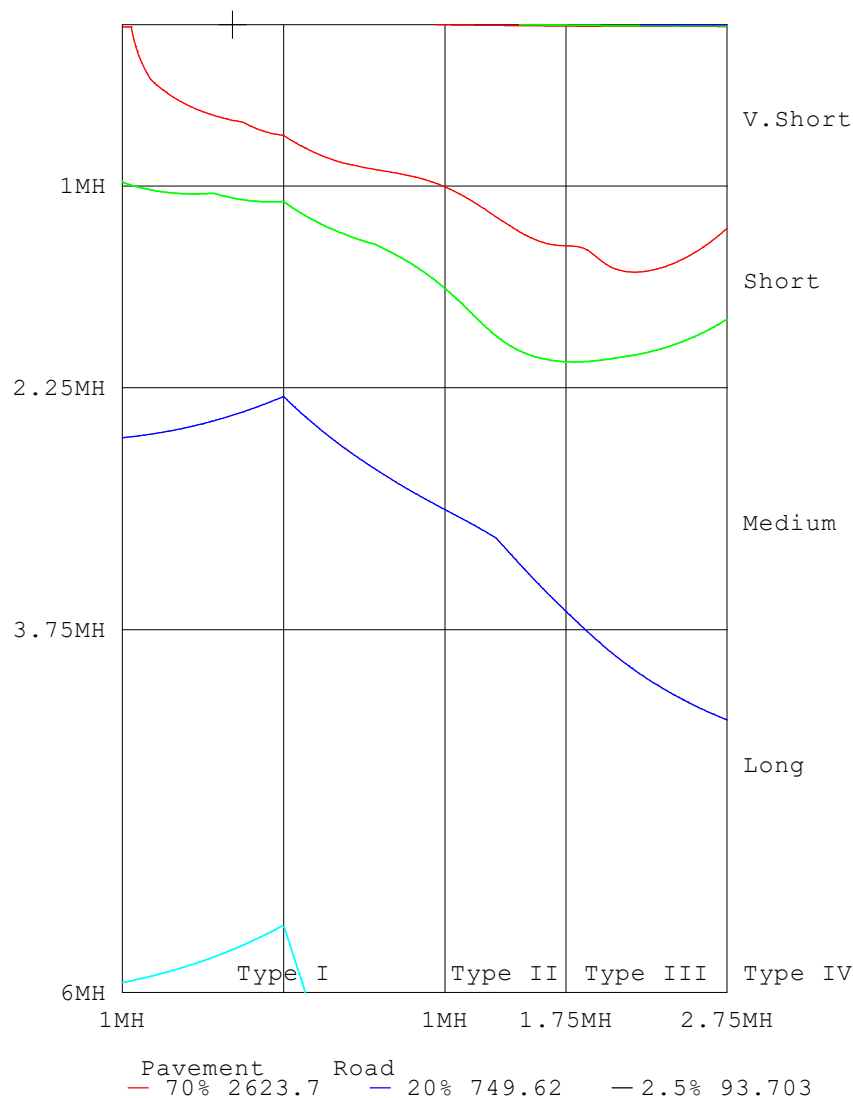
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:

ROAD ISOCANDELA REPORT

Test:U:119.71V I:0.6767A P:80.767W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11220.4x1 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:119.71V I:0.6767A P:80.767W PF:0.9970 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:11220.4x1 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	3543	3540	3541	3536	3541	3536	3539	3536	3543	3540	3541	3536	3541	3536	3539	3536			
5	3523	3562	3599	3624	3636	3622	3598	3557	3524	3482	3466	3440	3446	3441	3465	3479			
10	3465	3552	3630	3685	3705	3682	3624	3542	3468	3395	3364	3346	3349	3346	3363	3393			
15	3366	3506	3629	3714	3742	3710	3619	3493	3365	3275	3256	3255	3264	3253	3253	3273			
20	3228	3422	3595	3709	3744	3703	3584	3405	3226	3131	3139	3158	3175	3155	3133	3127			
25	3051	3303	3529	3666	3704	3660	3514	3282	3050	2961	3002	3056	3086	3049	2994	2956			
30	2839	3150	3432	3587	3628	3579	3415	3125	2837	2770	2856	2950	2994	2941	2843	2760			
35	2596	2968	3301	3484	3535	3476	3282	2936	2594	2555	2700	2835	2889	2825	2684	2543			
40	2325	2755	3139	3376	3472	3360	3119	2716	2324	2323	2534	2691	2748	2681	2512	2304			
45	2033	2509	2957	3308	3462	3285	2929	2464	2035	2080	2345	2504	2554	2492	2320	2055			
50	1730	2232	2775	3296	3504	3264	2737	2179	1733	1829	2121	2252	2287	2244	2096	1798			
55	1420	1927	2624	3322	3540	3288	2567	1868	1426	1573	1858	1924	1929	1923	1835	1560			
60	1116	1602	2537	3274	3414	3256	2452	1538	1124	1308	1549	1479	1395	1491	1535	1274			
65	831	1270	2548	2855	3260	2841	2451	1198	842	1045	1191	878	827	883	1187	1012			
70	578	954	2108	3129	2963	3054	2187	872	593	787	674	461	447	465	692	760			
75	360	707	1318	1606	1094	1699	1297	601	377	533	336	274	262	275	345	516			
80	183	543	857	652	416	701	795	431	199	238	155	151	154	150	156	245			
85	55.1	290	433	248	174	275	411	238	68.9	68.4	65.7	76.3	79.0	74.9	62.6	66.4			
90	3.16	28.5	86.1	46.5	34.6	50.9	88.9	30.4	4.10	5.38	7.80	9.37	10.1	8.83	7.34	4.74			
95	3.59	3.34	3.52	3.43	3.36	3.47	3.53	3.37	3.67	4.81	6.71	8.24	8.86	8.36	6.94	5.14			
100	4.58	4.24	4.46	4.46	4.39	4.46	4.45	4.28	4.65	5.88	7.89	9.61	10.2	9.64	8.10	6.22			
105	5.68	5.23	5.51	5.60	5.57	5.59	5.53	5.30	5.79	7.07	9.06	10.8	11.7	11.0	9.30	7.37			
110	6.85	6.30	6.59	6.79	6.83	6.81	6.65	6.38	7.01	8.38	10.2	11.9	12.7	12.1	10.4	8.57			
115	8.07	7.40	7.65	7.94	8.08	7.98	7.74	7.49	8.26	9.73	11.5	13.0	13.7	13.2	11.6	9.72			
120	9.33	8.59	8.69	9.04	9.23	9.12	8.80	8.67	9.54	11.1	12.8	14.4	15.1	14.5	12.7	10.9			
125	10.6	9.80	9.79	10.1	10.3	10.2	9.90	9.93	10.8	12.4	14.1	15.5	15.9	15.3	13.8	12.2			
130	11.9	11.1	10.9	11.2	11.3	11.3	11.1	11.2	12.0	13.6	15.5	16.9	17.1	16.4	15.1	13.4			
135	13.1	12.4	12.1	12.2	12.4	12.4	12.4	12.5	13.2	14.7	16.7	18.1	18.2	17.5	16.3	14.7			
140	14.3	13.6	13.3	13.3	13.5	13.6	13.6	13.8	14.4	15.7	17.7	19.2	19.4	18.7	17.5	15.8			
145	15.3	14.8	14.5	14.4	14.6	14.8	14.9	15.0	15.5	16.6	18.4	20.0	20.3	19.5	18.3	16.8			
150	16.5	16.1	15.9	15.8	16.0	16.1	16.2	16.3	16.7	17.4	19.0	20.3	20.7	19.8	18.9	17.7			
155	17.7	17.3	17.2	17.1	17.3	17.5	17.4	17.5	17.7	18.2	19.4	20.5	20.8	20.0	19.5	18.5			
160	18.8	18.4	18.2	18.2	18.5	18.5	18.5	18.5	18.7	18.8	19.8	20.6	20.9	20.2	19.9	19.3			
165	19.7	19.4	19.2	19.3	19.6	19.5	19.4	19.5	19.6	19.6	20.3	20.8	21.1	20.5	20.4	20.1			
170	20.7	20.3	20.2	20.2	20.5	20.4	20.3	20.4	20.5	20.2	20.7	21.1	21.4	20.8	20.9	20.7			
175	21.2	20.8	20.8	20.9	21.2	21.0	20.9	21.0	21.2	20.8	21.3	21.4	21.7	21.3	21.4	21.3			
180	21.3	21.1	21.3	21.3	21.7	21.4	21.4	21.4	21.3	21.0	21.3	21.3	21.7	21.3	21.4	21.4			

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: