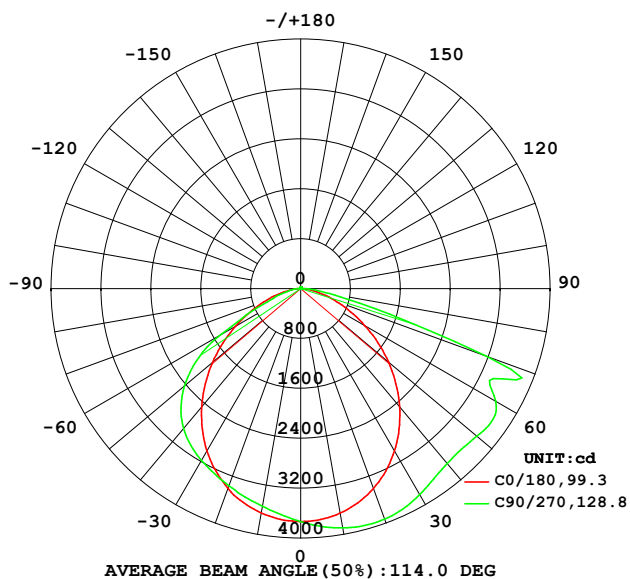
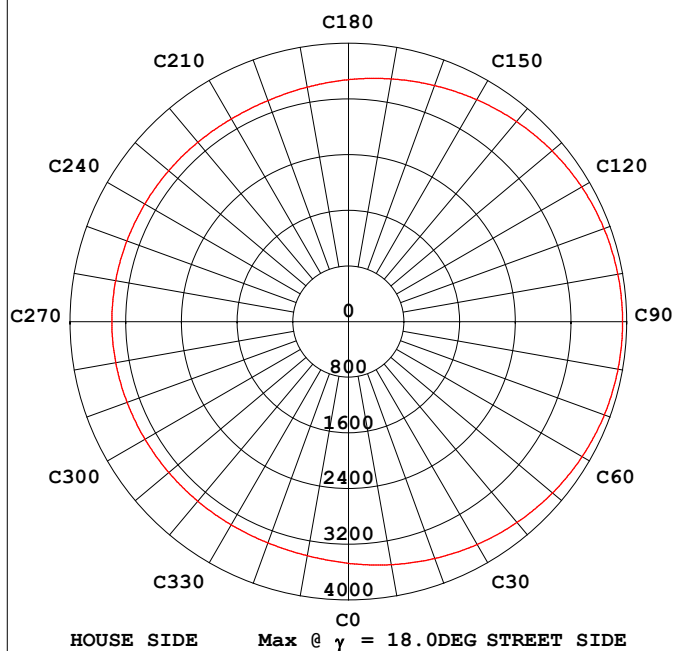


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.79V I:0.6739A P:80.485W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11888.8x1 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: 147.71 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	3939	η street_up (%)	0.3
NOMINAL POWER (W)	80	LOR (%)	100.0	η street_down (%)	58.5
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	11889	η house_up (%)	0.4
NOMINAL FLUX (lm)	11888.8	MAXIMUM @ (C, γ)	90,18.0	η house_down (%)	40.8
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

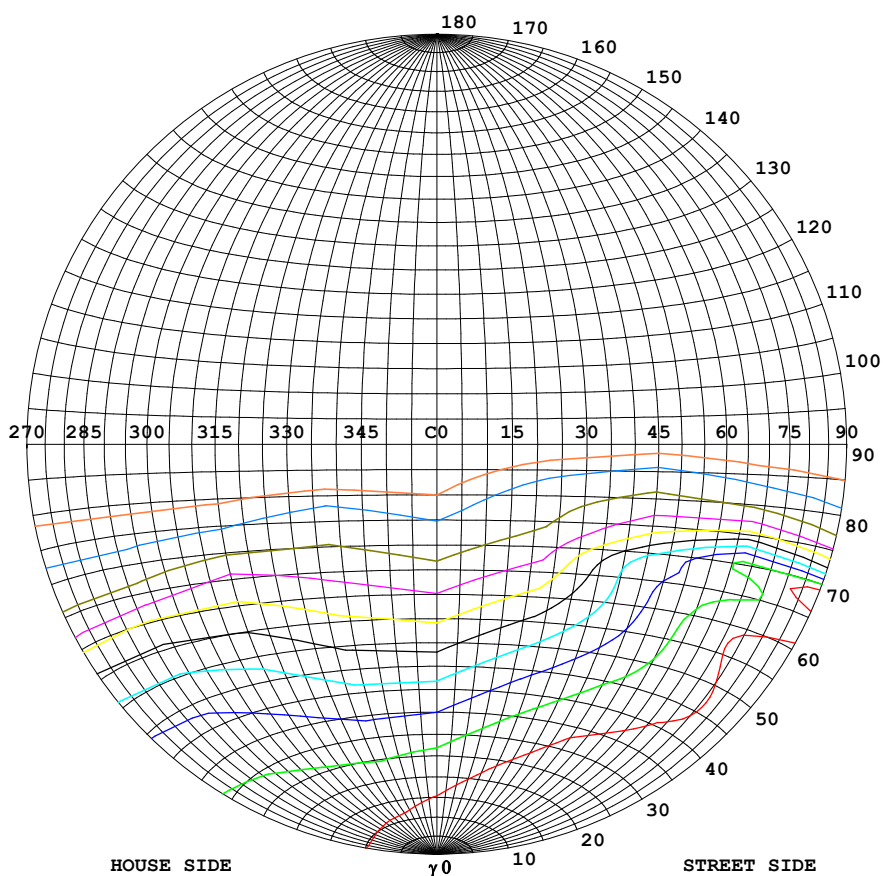
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
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:0.6739A P:80.485W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11888.8x1 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:



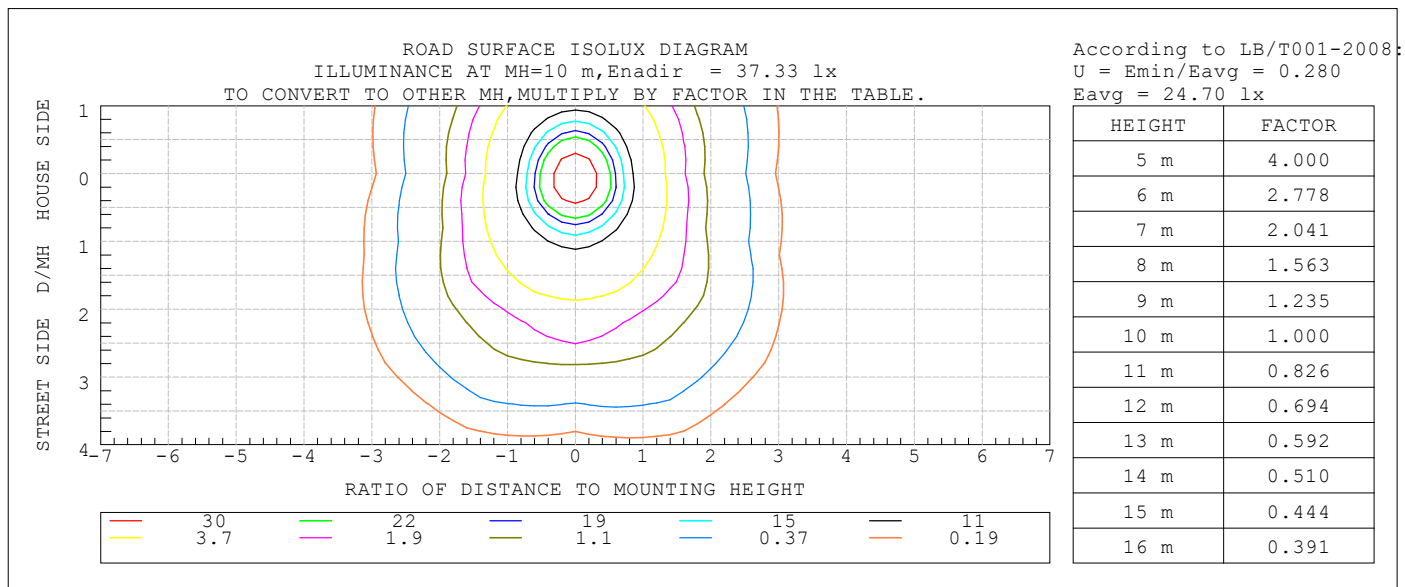
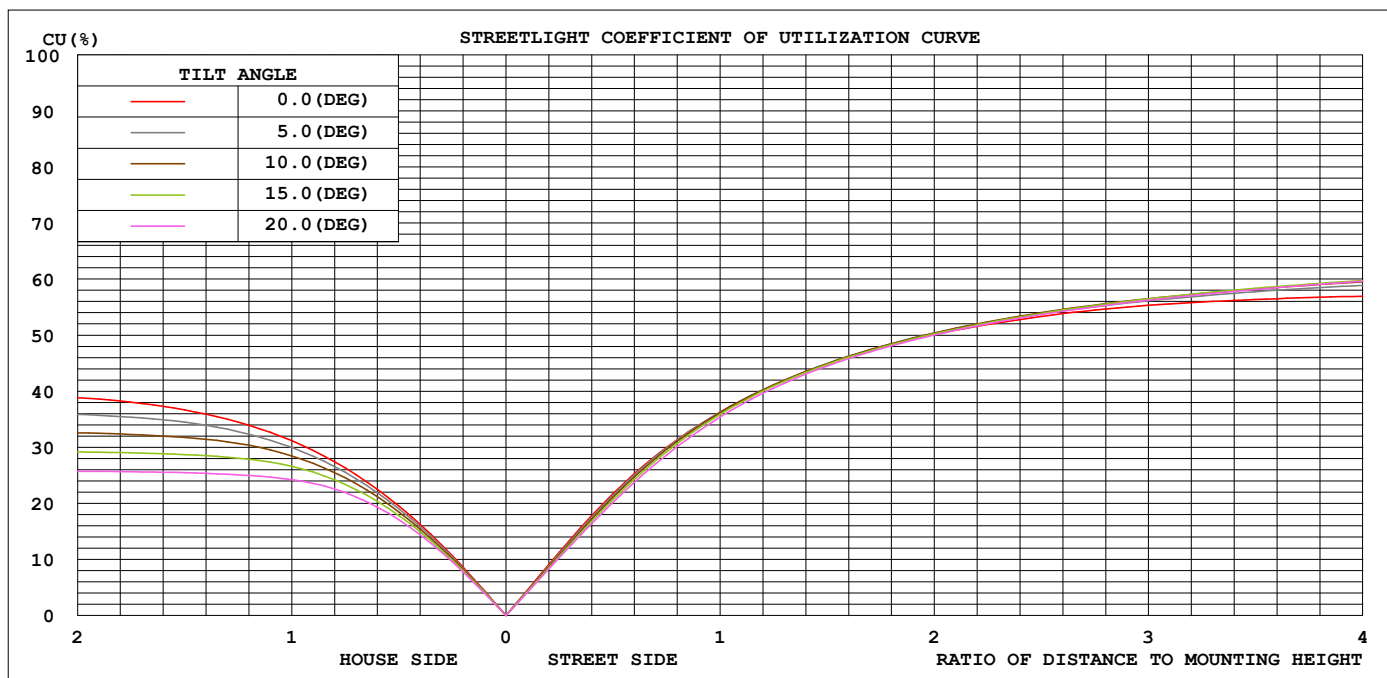
Classification:

IES:Type IV - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:75.86cd/klm
Max.At90:7.933cd/klm
Max.80-90:75.86cd/klm
NRB 5101:Limited[7.6%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3939
90%	3545
80%	3151
70%	2757
60%	2363
50%	1969
40%	1576
30%	1182
20%	788
10%	394
5%	197

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:0.6739A P:80.485W PF:0.9970 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11888.8x1 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:

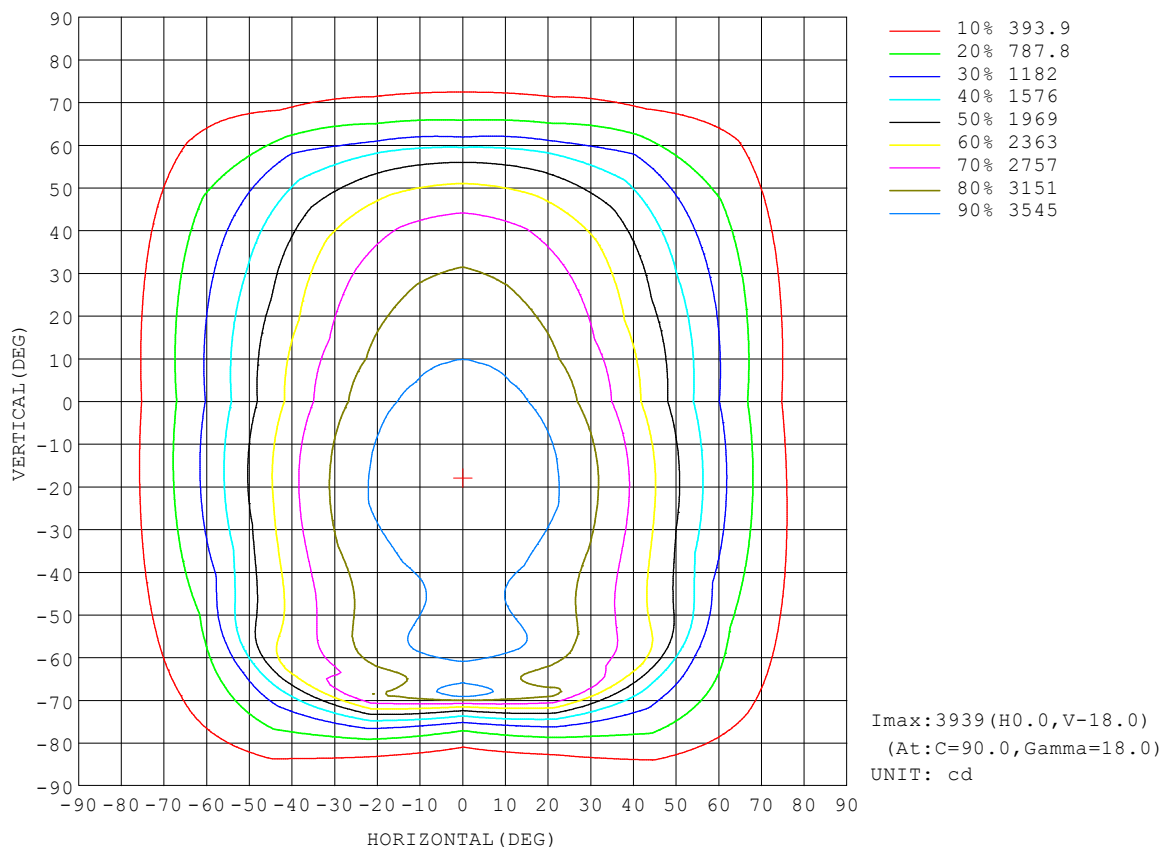
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3655	3820	3894	3816	3653	3557	3541	3559	0- 10	354.1	354.1	2.98,2.98
20	3411	3782	3934	3771	3410	3323	3365	3318	10- 20	1024	1378	11.6,11.6
30	3007	3612	3815	3596	3005	3033	3180	3019	20- 30	1579	2958	24.9,24.9
40	2469	3310	3659	3290	2467	2697	2923	2674	30- 40	1954	4912	41.3,41.3
50	1841	2931	3685	2892	1847	2261	2431	2236	40- 50	2113	7025	59.1,59.1
60	1190	2675	3608	2585	1199	1650	1484	1631	50- 60	2043	9069	76.3,76.3
70	616.5	2260	3157	2336	633.2	720.2	484.4	739.3	60- 70	1667	10736	90.3,90.3
80	193.5	901.8	468.1	838.4	212.4	165.3	167.3	166.8	70- 80	864.2	11600	97.6,97.6
90	3.435	87.62	37.90	94.31	4.467	8.426	10.85	7.987	80- 90	208.9	11809	99.3,99.3
100	5.025	4.936	4.858	4.972	5.062	8.516	10.96	8.790	90-100	8.466	11817	99.4,99.4
110	7.550	7.315	7.613	7.409	7.616	11.07	13.71	11.32	100-110	8.376	11826	99.5,99.5
120	10.26	9.686	10.28	9.794	10.36	13.80	16.25	13.79	110-120	10.39	11836	99.6,99.6
130	13.03	12.11	12.55	12.27	13.03	16.75	18.42	16.30	120-130	11.68	11848	99.7,99.7
140	15.69	14.66	14.87	15.06	15.59	19.14	21.03	18.91	130-140	12.07	11860	99.8,99.8
150	18.08	17.46	17.69	17.85	18.07	20.57	22.44	20.55	140-150	11.28	11871	99.9,99.9
160	20.49	19.98	20.21	20.29	20.41	21.62	22.80	21.74	150-160	9.237	11880	99.9,99.9
170	22.60	22.14	22.63	22.34	22.41	22.76	23.47	22.94	160-170	6.148	11887	100,100
180	23.34	23.33	23.82	23.51	23.36	23.34	23.79	23.53	170-180	2.196	11889	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

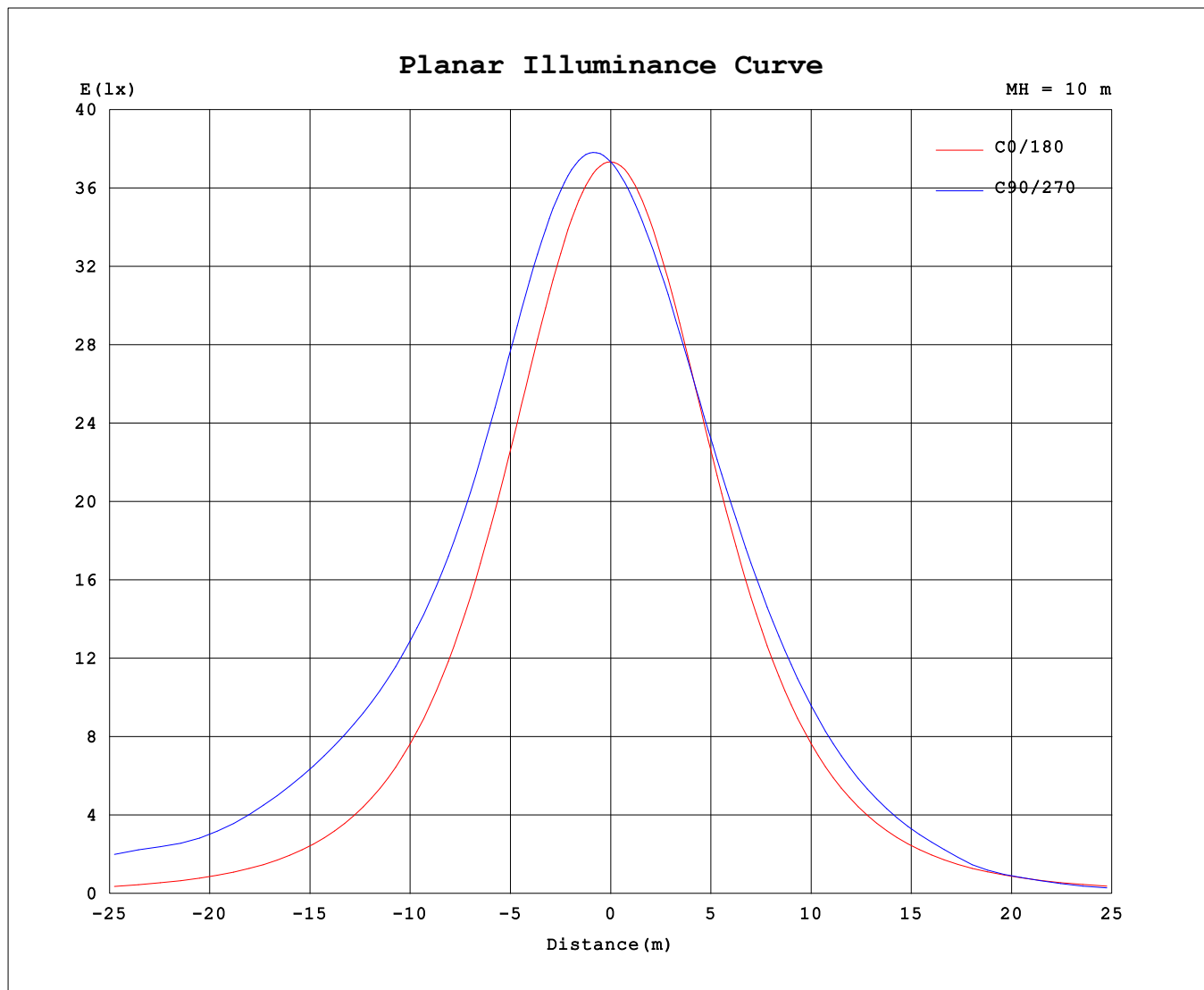
Test:U:119.79V I:0.6739A P:80.485W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11888.8x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



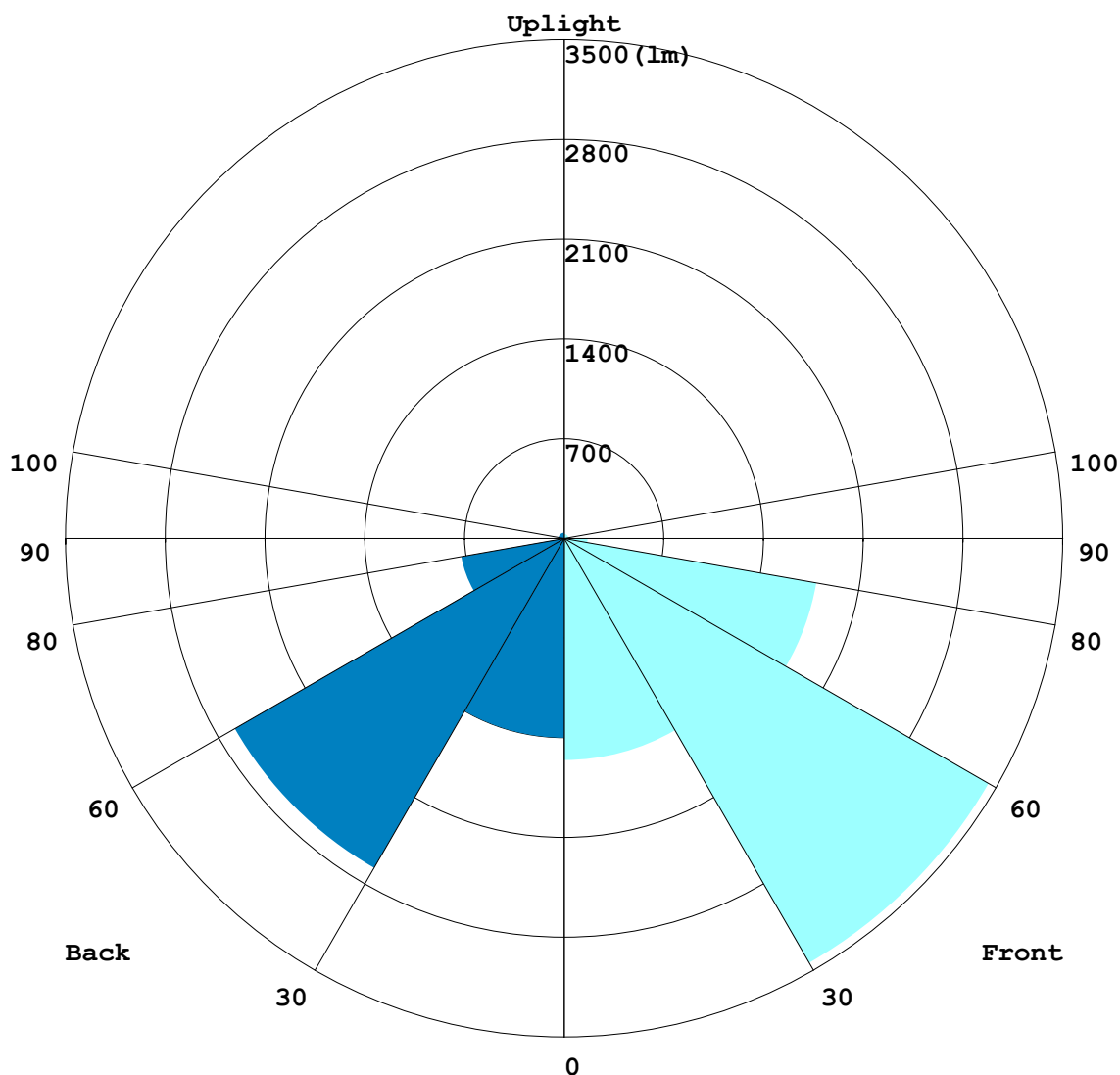
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:0.6739A P:80.485W PF:0.9970 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11888.8x1 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:119.79V I:0.6739A P:80.485W PF:0.9970 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11888.8x1 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)	1557.2	13.1
FM - Front-Medium(30-60)	3440.3	28.9
FH - Front-High(60-80)	1798.8	15.1
FVH - Front-Very High(80-90)	164.08	1.4
Total Forward Light	6996.3	58.8

BL - Back-Low(0-30)	1400.5	11.8
BM - Back-Medium(30-60)	2670.7	22.5
BH - Back-High(60-80)	732.61	6.2
BVH - Back-Very High(80-90)	44.797	0.4
Total Back Light	4892.5	41.2

UL - Uplight-Low(90-100)	8.4662	0.1
UH - Uplight-High(100-180)	71.38	0.6
Total Up Light	79.846	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4848.5	43.947	4892.5
Street Side	6960.4	35.899	6996.3

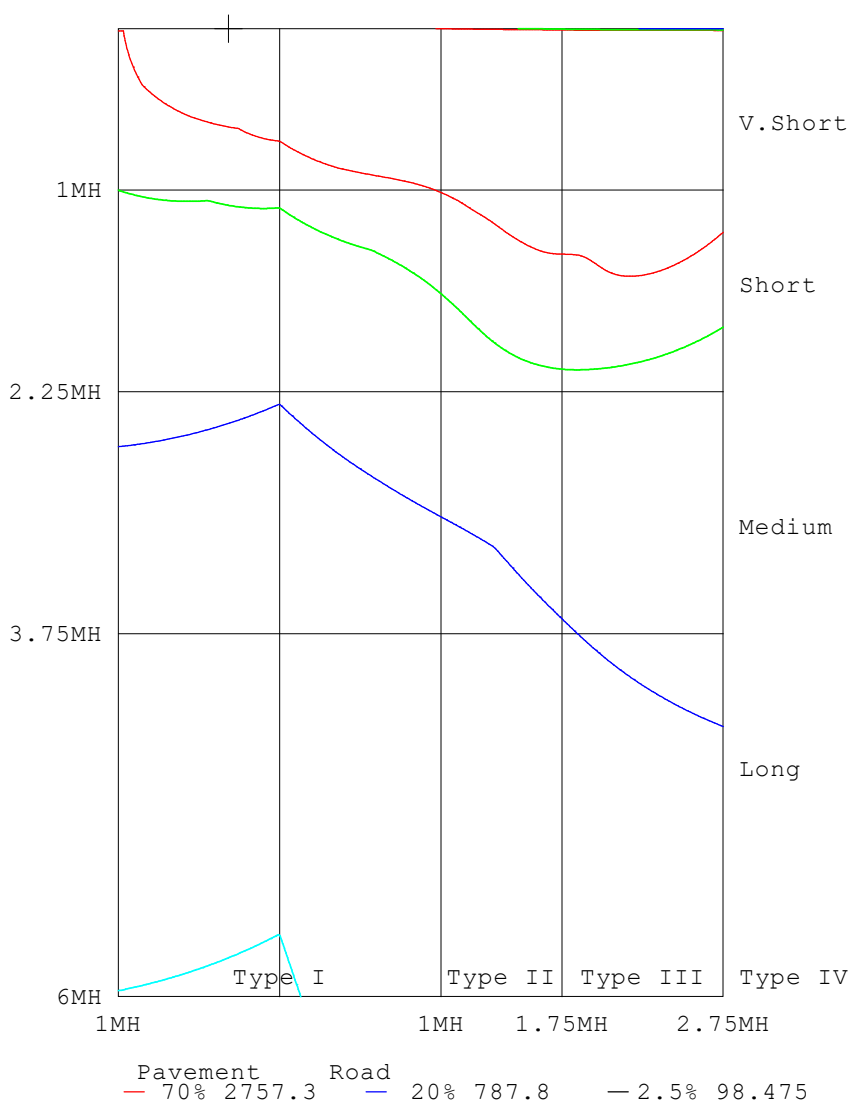
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:0.6739A P:80.485W PF:0.9970 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11888.8x1 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:119.79V I:0.6739A P:80.485W PF:0.9970 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:11888.8x1 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	3733	3732	3734	3730	3734	3731	3735	3732	3733	3732	3734	3730	3734	3731	3735	3732			
5	3716	3755	3792	3816	3826	3814	3789	3751	3715	3676	3654	3637	3636	3638	3657	3679			
10	3655	3741	3820	3875	3894	3872	3816	3733	3653	3586	3557	3539	3541	3539	3559	3590			
15	3553	3690	3816	3904	3933	3899	3808	3679	3552	3464	3448	3445	3461	3444	3448	3466			
20	3411	3603	3782	3899	3934	3893	3771	3589	3410	3314	3323	3347	3365	3344	3318	3314			
25	3228	3486	3714	3854	3893	3848	3700	3461	3225	3137	3184	3242	3274	3236	3176	3135			
30	3007	3324	3612	3772	3815	3763	3596	3297	3005	2938	3033	3134	3180	3126	3019	2931			
35	2752	3134	3477	3664	3725	3652	3460	3101	2753	2716	2871	3014	3070	3004	2853	2702			
40	2469	2910	3310	3557	3659	3540	3290	2870	2467	2473	2697	2865	2923	2854	2674	2453			
45	2161	2652	3120	3485	3645	3460	3093	2604	2164	2216	2498	2662	2716	2653	2472	2191			
50	1841	2361	2931	3469	3685	3434	2892	2307	1847	1951	2261	2395	2431	2387	2236	1920			
55	1514	2040	2770	3496	3730	3457	2709	1978	1522	1679	1979	2049	2054	2045	1956	1644			
60	1190	1696	2675	3442	3608	3428	2585	1630	1199	1398	1650	1611	1484	1612	1631	1363			
65	886	1346	2684	3027	3411	3020	2579	1269	899	1116	1271	938	883	943	1262	1083			
70	617	1010	2260	3245	3157	3152	2336	926	633	838	720	498	484	500	739	811			
75	384	749	1400	1732	1231	1823	1384	638	403	565	359	297	291	297	367	549			
80	194	575	902	730	468	782	838	458	212	253	165	164	167	163	167	261			
85	58.3	303	455	287	192	309	433	253	73.3	73.2	70.8	82.9	86.2	81.2	67.4	70.7			
90	3.43	29.4	87.6	51.9	37.9	57.0	94.3	32.0	4.47	5.86	8.43	10.0	10.8	9.58	7.99	5.16			
95	3.94	3.63	3.87	3.76	3.70	3.82	3.92	3.72	4.00	5.31	7.22	8.97	9.55	9.07	7.53	5.60			
100	5.03	4.63	4.94	4.91	4.86	4.94	4.97	4.73	5.06	6.48	8.52	10.4	11.0	10.5	8.79	6.77			
105	6.26	5.76	6.10	6.20	6.18	6.23	6.17	5.87	6.30	7.76	9.79	11.7	12.6	11.9	10.1	8.03			
110	7.55	6.95	7.32	7.55	7.61	7.60	7.41	7.07	7.62	9.16	11.1	12.8	13.7	13.1	11.3	9.32			
115	8.88	8.18	8.51	8.86	9.02	8.93	8.63	8.31	8.98	10.6	12.5	14.1	14.8	14.3	12.6	10.6			
120	10.3	9.48	9.69	10.1	10.3	10.2	9.79	9.62	10.4	12.0	13.8	15.5	16.3	15.7	13.8	11.9			
125	11.6	10.8	10.9	11.2	11.4	11.3	11.0	11.0	11.7	13.5	15.3	16.8	17.2	16.6	15.0	13.2			
130	13.0	12.2	12.1	12.4	12.6	12.5	12.3	12.4	13.0	14.8	16.8	18.3	18.4	17.7	16.3	14.6			
135	14.4	13.6	13.4	13.5	13.7	13.7	13.7	13.9	14.3	16.0	18.0	19.6	19.7	19.0	17.6	15.9			
140	15.7	15.0	14.7	14.7	14.9	15.0	15.1	15.3	15.6	17.1	19.1	20.8	21.0	20.3	18.9	17.1			
145	16.8	16.3	16.0	15.9	16.1	16.3	16.4	16.6	16.9	18.0	20.0	21.7	22.0	21.1	19.9	18.2			
150	18.1	17.7	17.5	17.4	17.7	17.8	17.8	17.9	18.1	18.9	20.6	22.0	22.4	21.5	20.6	19.2			
155	19.4	19.0	18.8	18.8	19.0	19.2	19.2	19.2	19.3	19.7	21.1	22.2	22.6	21.8	21.2	20.1			
160	20.5	20.1	20.0	20.0	20.2	20.4	20.3	20.3	20.4	20.6	21.6	22.5	22.8	22.1	21.7	21.1			
165	21.6	21.2	21.1	21.1	21.5	21.4	21.4	21.4	21.5	21.5	22.2	22.9	23.1	22.5	22.4	22.0			
170	22.6	22.2	22.1	22.2	22.6	22.4	22.3	22.4	22.4	22.3	22.8	23.1	23.5	22.9	22.9	22.8			
175	23.1	22.8	22.9	22.9	23.4	23.1	23.0	23.1	23.2	22.9	23.3	23.4	23.8	23.4	23.5	23.4			
180	23.3	23.1	23.3	23.4	23.8	23.5	23.5	23.5	23.4	23.1	23.3	23.5	23.8	23.5	23.5	23.5			

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: