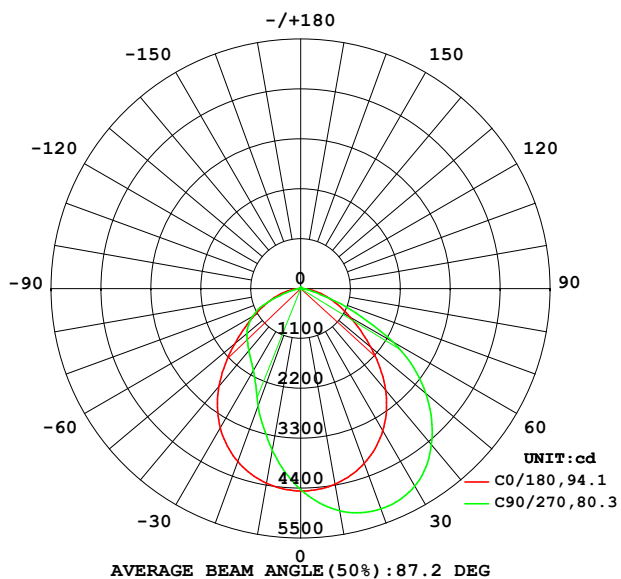
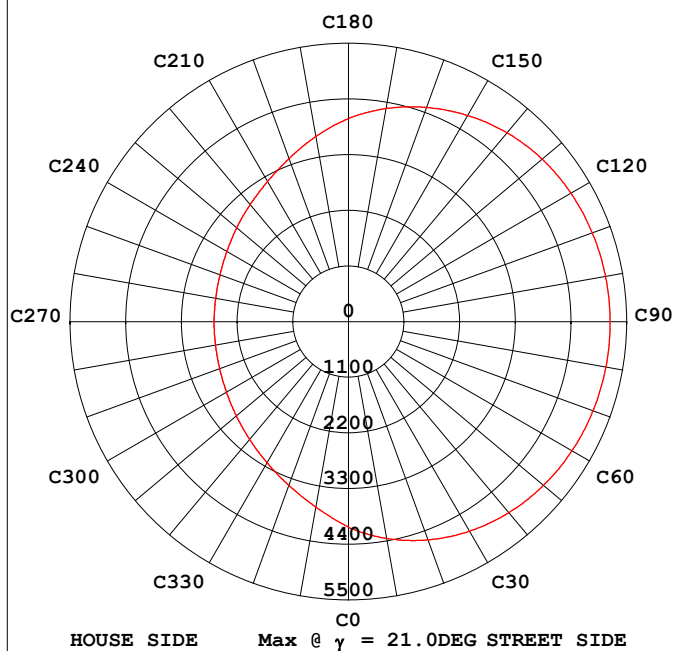


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.77V I:0.6806A P:81.289W PF:0.9972 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11617.5x1 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: 142.92 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	5170	η street_up (%)	0.3
NOMINAL POWER (W)	80	LOR (%)	100.0	η street_down (%)	65.6
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	11618	η house_up (%)	0.4
NOMINAL FLUX (lm)	11617.5	MAXIMUM @ (C, γ)	90, 21.0	η house_down (%)	33.7
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

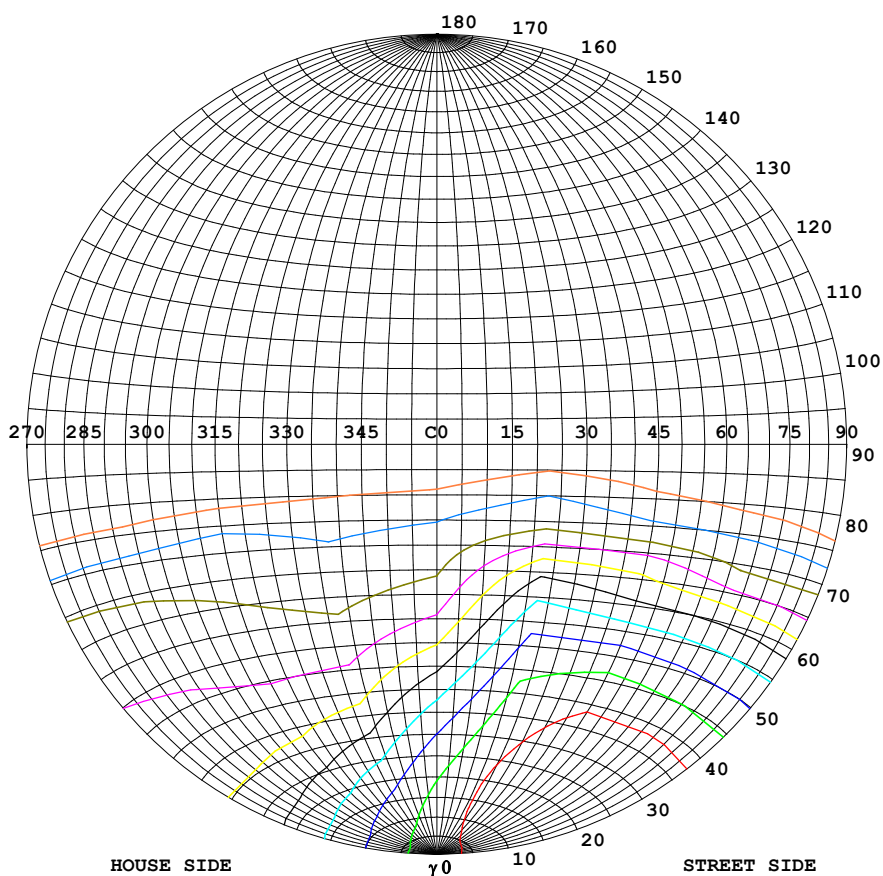
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:119.77V I:0.6806A P:81.289W PF:0.9972 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11617.5x1 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:



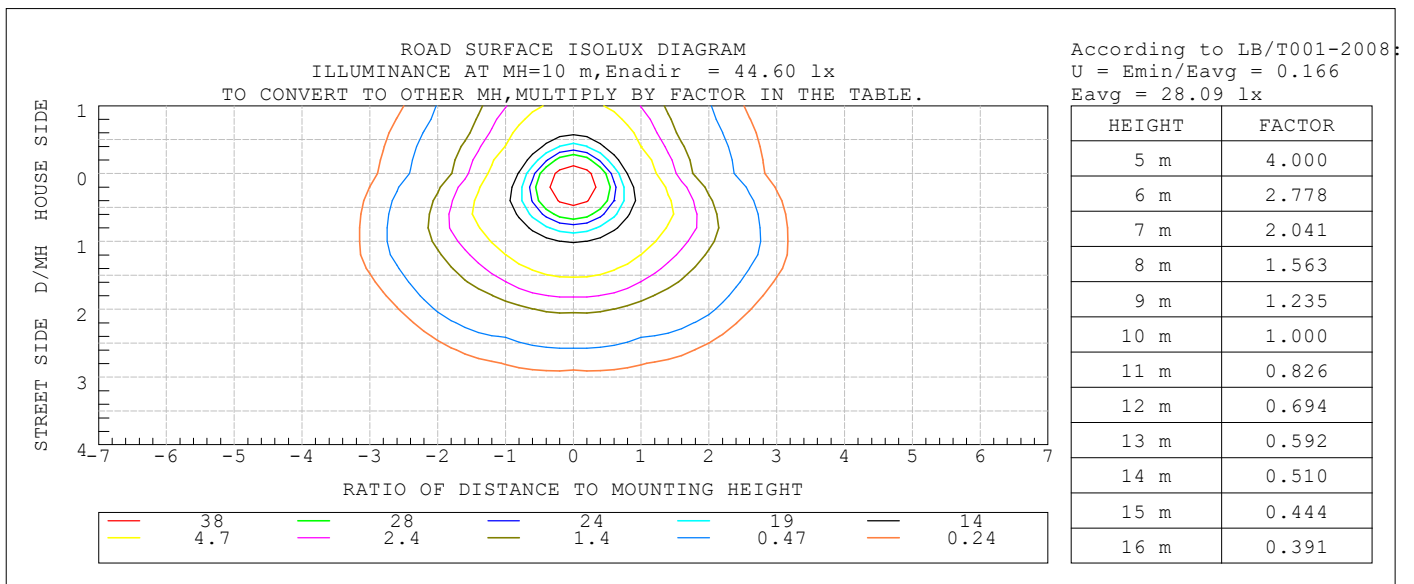
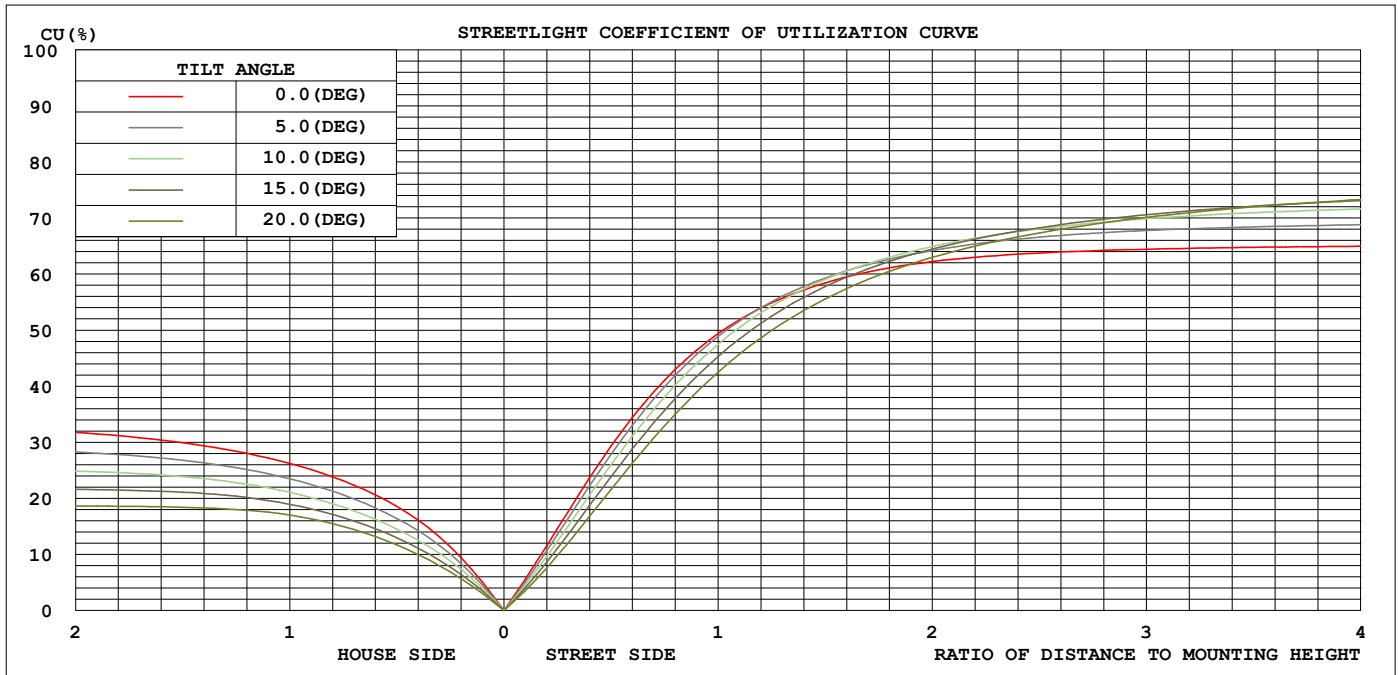
Classification:

IES:Type II - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:44.26cd/klm
Max.At90:2.175cd/klm
Max.80-90:44.26cd/klm
NRB 5101:Limited[5.8%]

ISOCANDELA DIAGRAM		
UNIT		cd
Imax=100%		5170
90%		4653
80%		4136
70%		3619
60%		3102
50%		2585
40%		2068
30%		1551
20%		1034
10%		517
5%		259

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:119.77V I:0.6806A P:81.289W PF:0.9972 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11617.5x1 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:

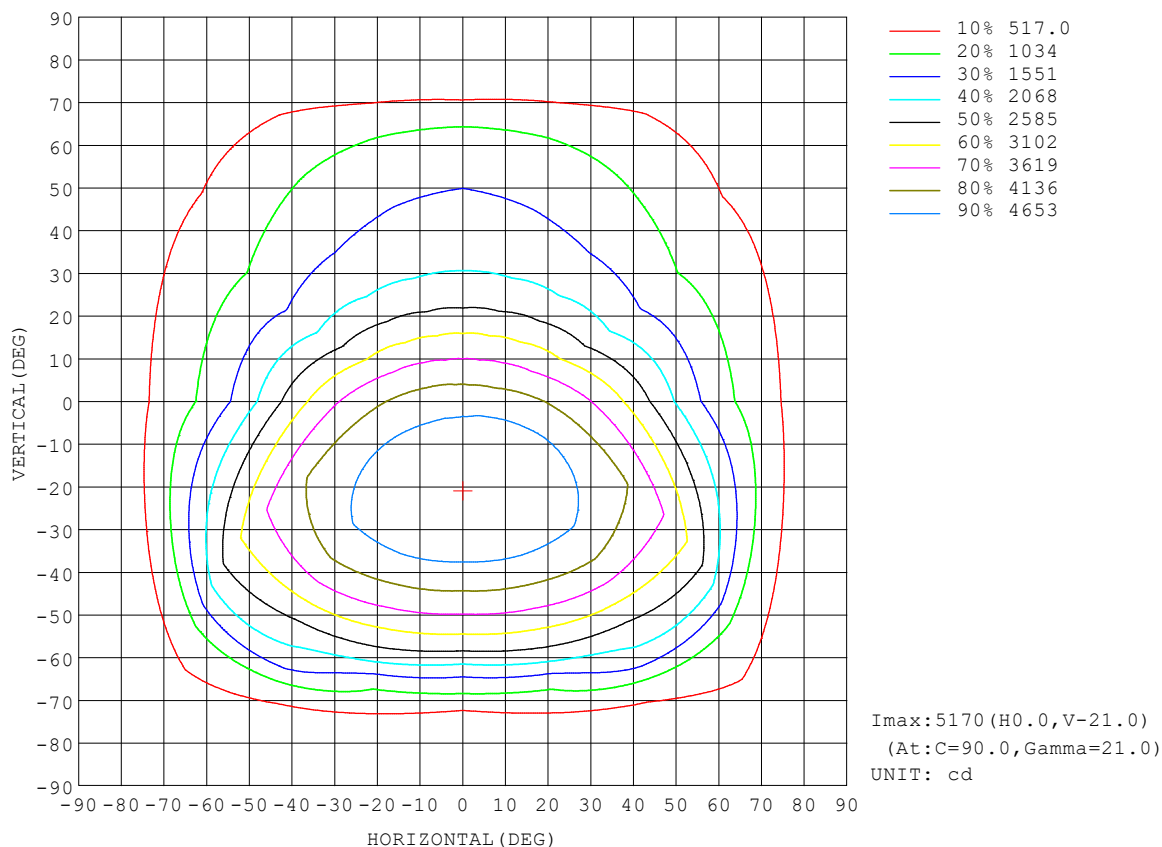
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4375	4829	4971	4792	4354	3828	3615	3822	0- 10	417.6	417.6	3.59,3.59
20	4101	4983	5168	4939	4056	3032	2748	3042	10- 20	1178	1596	13.7,13.7
30	3622	4914	5030	4879	3553	2241	2090	2258	20- 30	1748	3343	28.8,28.8
40	2913	4576	4486	4553	2798	1729	1780	1725	30- 40	2086	5430	46.7,46.7
50	2027	3844	3601	3835	1904	1369	1548	1355	40- 50	2159	7589	65.3,65.3
60	1258	2696	2339	2676	1177	1064	1226	1045	50- 60	1929	9517	81.9,81.9
70	717.0	1456	807.8	1525	664.7	704.3	564.7	694.9	60- 70	1356	10873	93.6,93.6
80	300.5	308.4	154.4	308.0	264.8	176.2	122.3	185.2	70- 80	545.9	11419	98.3,98.3
90	3.929	24.03	15.77	22.21	4.486	6.335	5.814	6.231	80- 90	121.0	11540	99.3,99.3
100	5.587	3.553	3.766	3.638	5.652	8.410	7.490	8.365	90-100	5.952	11546	99.4,99.4
110	8.364	5.106	5.391	5.257	8.380	12.08	11.64	12.05	100-110	7.552	11554	99.5,99.5
120	11.46	7.021	6.951	7.241	11.48	15.28	15.68	15.54	110-120	9.804	11563	99.5,99.5
130	14.67	9.561	8.976	9.936	14.71	18.34	19.28	18.70	120-130	11.41	11575	99.6,99.6
140	17.74	12.82	11.82	13.13	17.75	21.17	22.36	21.35	130-140	12.14	11587	99.7,99.7
150	20.25	16.21	15.21	16.41	20.44	23.80	25.09	23.79	140-150	11.68	11599	99.8,99.8
160	22.59	19.46	18.90	19.55	22.71	25.25	26.55	25.24	150-160	9.829	11609	99.9,99.9
170	24.66	22.65	22.74	22.90	24.62	25.93	26.97	26.04	160-170	6.633	11615	100,100
180	25.43	25.23	25.83	25.55	25.46	25.27	25.87	25.60	170-180	2.381	11618	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

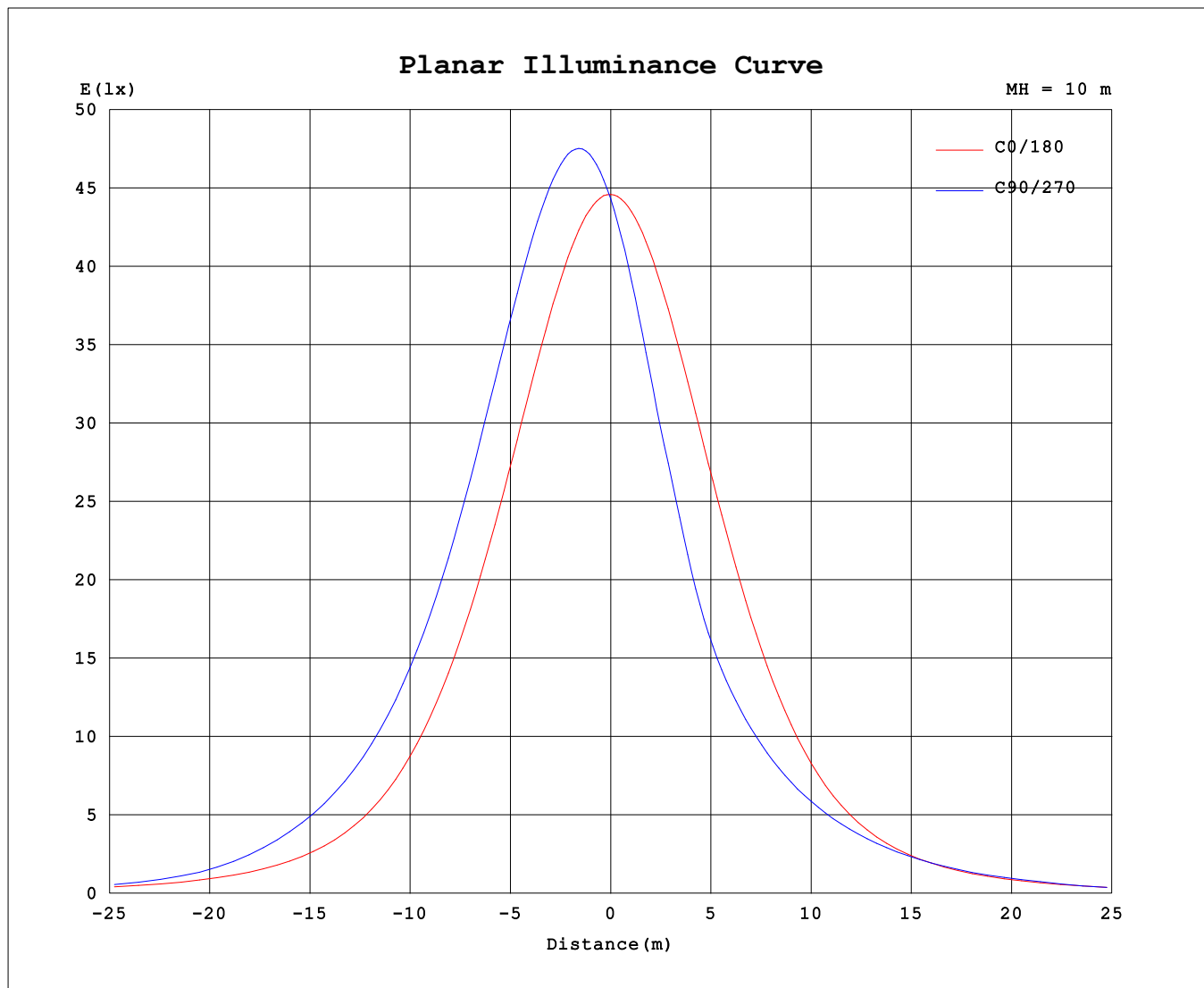
Test:U:119.77V I:0.6806A P:81.289W PF:0.9972 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11617.5x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



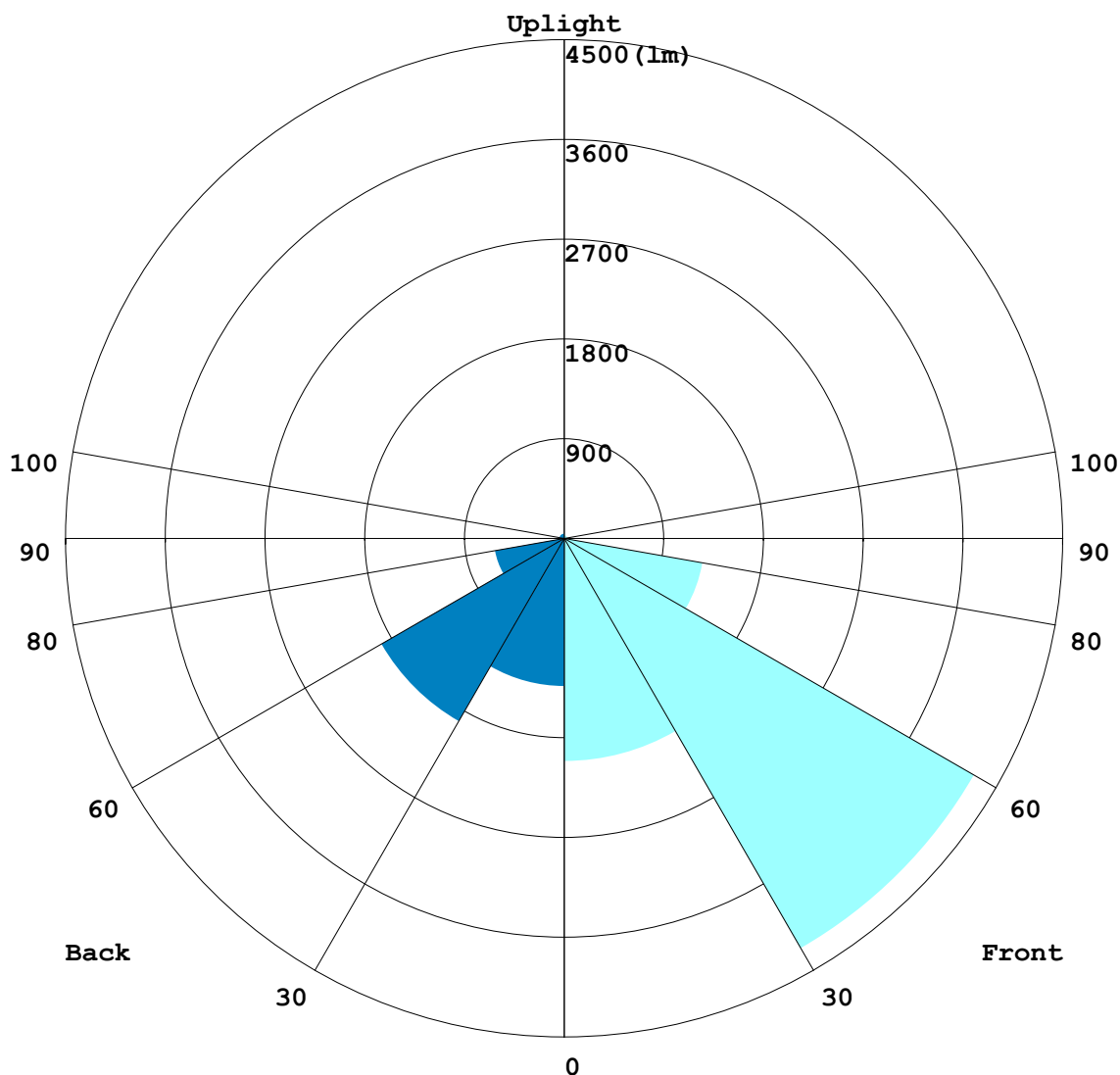
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:119.77V I:0.6806A P:81.289W PF:0.9972 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11617.5x1 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:119.77V I:0.6806A P:81.289W PF:0.9972 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11617.5x1 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)	2009	17.3
FM - Front-Medium(30-60)	4270.5	36.8
FH - Front-High(60-80)	1267.2	10.9
FVH - Front-Very High(80-90)	80.146	0.7
Total Forward Light	7657.5	65.9

BL - Back-Low(0-30)	1334.3	11.5
BM - Back-Medium(30-60)	1903.6	16.4
BH - Back-High(60-80)	634.58	5.5
BVH - Back-Very High(80-90)	40.827	0.4
Total Back Light	3960	34.1

UL - Uplight-Low(90-100)	5.9516	0.1
UH - Uplight-High(100-180)	71.437	0.6
Total Up Light	77.388	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3913.3	46.715	3960
Street Side	7626.8	30.673	7657.5

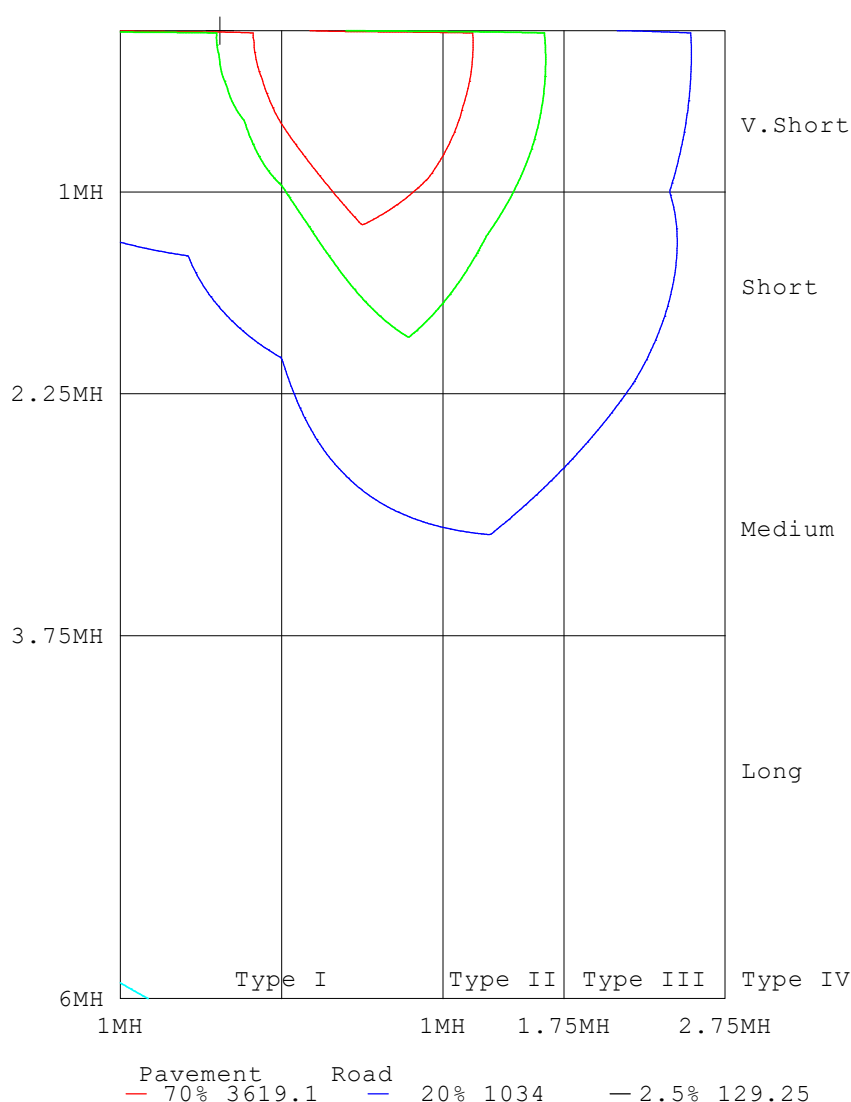
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:

ROAD ISOCANDELA REPORT

Test:U:119.77V I:0.6806A P:81.289W PF:0.9972 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11617.5x1 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:119.77V I:0.6806A P:81.289W PF:0.9972 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:11617.5x1 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	4460	4451	4445	4426	4429	4415	4419	4410	4460	4451	4445	4426	4429	4415	4419	4410			
5	4440	4566	4665	4718	4740	4702	4632	4514	4431	4286	4168	4071	4053	4066	4153	4259			
10	4375	4634	4829	4936	4971	4920	4792	4571	4354	4065	3828	3652	3615	3653	3822	4052			
15	4263	4660	4936	5073	5111	5053	4892	4589	4230	3786	3434	3219	3173	3223	3438	3785			
20	4101	4648	4983	5132	5168	5114	4939	4567	4056	3443	3032	2808	2748	2816	3042	3458			
25	3888	4597	4976	5120	5143	5102	4935	4511	3830	3052	2629	2393	2352	2402	2645	3077			
30	3622	4510	4914	5027	5030	5014	4879	4420	3553	2646	2241	2103	2090	2107	2258	2674			
35	3297	4391	4789	4835	4808	4825	4758	4295	3202	2236	1952	1907	1918	1906	1960	2271			
40	2913	4234	4576	4538	4486	4531	4553	4137	2798	1876	1729	1752	1780	1747	1725	1904			
45	2478	4030	4268	4147	4080	4143	4253	3933	2351	1580	1539	1615	1661	1608	1529	1595			
50	2027	3772	3844	3682	3601	3677	3835	3680	1904	1327	1369	1493	1548	1483	1355	1332			
55	1610	3448	3305	3143	3043	3140	3293	3366	1506	1102	1216	1358	1410	1349	1197	1099			
60	1258	3039	2696	2530	2339	2538	2676	2981	1177	900	1064	1194	1226	1186	1045	893			
65	966	2467	2148	1650	1486	1668	2120	2461	902	722	901	979	992	974	885	710			
70	717	1653	1456	932	808	929	1525	1701	665	561	704	629	565	639	695	546			
75	500	844	588	454	321	468	621	849	455	411	417	312	287	317	431	396			
80	300	514	308	208	154	215	308	459	265	250	176	133	122	135	185	246			
85	111	248	146	89.9	69.9	92.1	144	218	92.3	78.5	55.0	52.6	52.3	53.0	55.5	80.3			
90	3.93	25.3	24.0	19.2	15.8	19.2	22.2	22.6	4.49	5.65	6.33	5.76	5.81	5.76	6.23	5.39			
95	4.39	3.05	2.87	2.98	3.00	3.02	2.93	3.26	4.50	6.08	6.65	6.03	5.61	6.06	6.62	6.17			
100	5.59	3.88	3.55	3.70	3.77	3.76	3.64	4.13	5.65	7.48	8.41	7.90	7.49	7.94	8.37	7.59			
105	6.94	4.85	4.30	4.49	4.60	4.56	4.42	5.15	6.96	8.98	10.3	9.93	9.57	9.97	10.2	9.10			
110	8.36	5.99	5.11	5.26	5.39	5.36	5.26	6.30	8.38	10.5	12.1	12.0	11.6	12.0	12.0	10.6			
115	9.89	7.25	5.99	6.01	6.15	6.14	6.18	7.54	9.90	12.0	13.7	13.9	13.7	14.0	13.8	12.1			
120	11.5	8.65	7.02	6.85	6.95	7.00	7.24	8.91	11.5	13.4	15.3	15.8	15.7	15.9	15.5	13.6			
125	13.1	10.2	8.19	7.81	7.87	7.99	8.48	10.4	13.1	14.9	16.8	17.6	17.5	17.8	17.2	15.1			
130	14.7	11.8	9.56	8.93	8.98	9.23	9.94	12.0	14.7	16.4	18.3	19.2	19.3	19.5	18.7	16.5			
135	16.2	13.4	11.2	10.3	10.3	10.7	11.5	13.5	16.3	17.9	19.8	20.8	20.8	20.9	20.0	17.8			
140	17.7	14.9	12.8	11.8	11.8	12.2	13.1	15.0	17.7	19.5	21.2	22.3	22.4	22.3	21.4	19.3			
145	19.0	16.4	14.5	13.4	13.4	13.8	14.7	16.3	19.1	20.9	22.6	23.7	23.8	23.6	22.6	20.6			
150	20.2	17.9	16.2	15.2	15.2	15.7	16.4	17.8	20.4	22.1	23.8	24.9	25.1	24.6	23.8	21.8			
155	21.5	19.4	17.9	17.1	17.1	17.4	18.0	19.2	21.6	23.0	24.7	25.7	26.0	25.3	24.6	22.9			
160	22.6	20.8	19.5	18.8	18.9	19.2	19.6	20.6	22.7	23.8	25.3	26.2	26.6	25.9	25.2	23.8			
165	23.6	22.1	21.1	20.6	20.8	20.9	21.2	22.1	23.7	24.5	25.7	26.5	26.9	26.3	25.8	24.7			
170	24.7	23.4	22.7	22.3	22.7	22.7	22.9	23.6	24.6	25.0	25.9	26.5	27.0	26.3	26.0	25.3			
175	25.3	24.4	24.0	23.9	24.4	24.2	24.3	24.8	25.3	25.3	25.9	26.3	26.8	26.3	26.1	25.7			
180	25.4	25.1	25.2	25.4	25.8	25.5	25.5	25.6	25.5	25.1	25.3	25.4	25.9	25.5	25.6	25.6			

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: