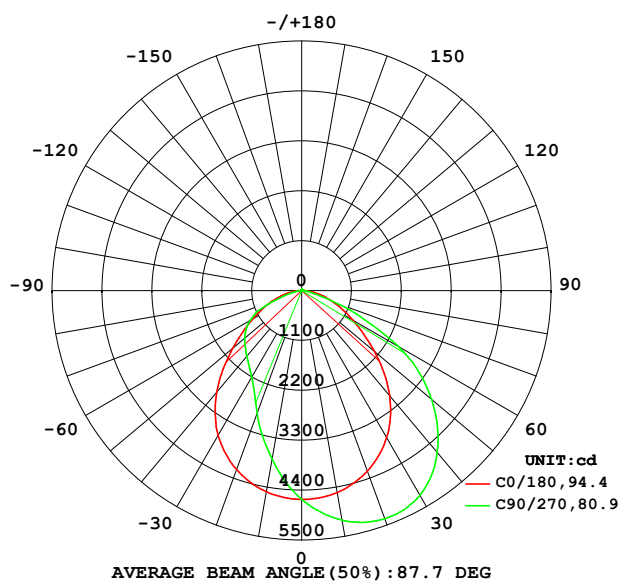
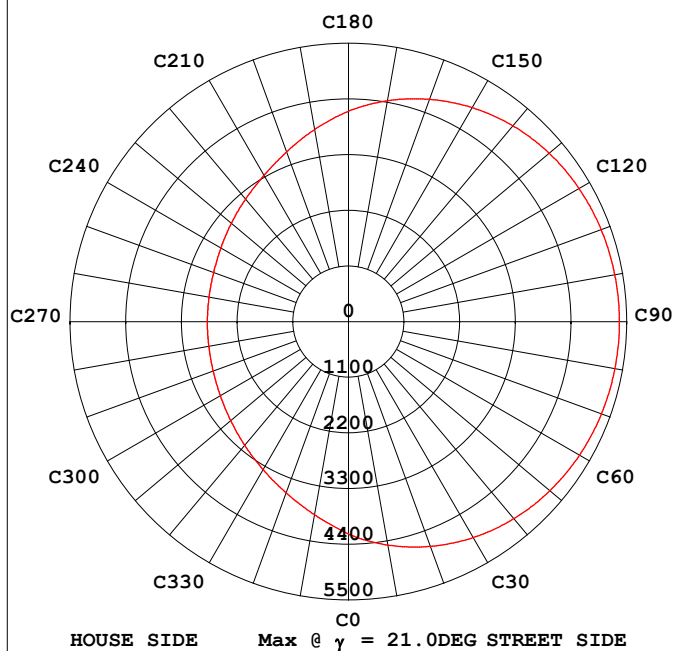


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.77V I:0.6752A P:80.631W PF:0.9971 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12127.7x1 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: 150.41 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	5354	η street_up (%)	0.3
NOMINAL POWER (W)	80	LOR (%)	100.0	η street_down (%)	65.4
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	12128	η house_up (%)	0.4
NOMINAL FLUX (lm)	12127.7	MAXIMUM @ (C, γ)	90, 21.0	η house_down (%)	34.0
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

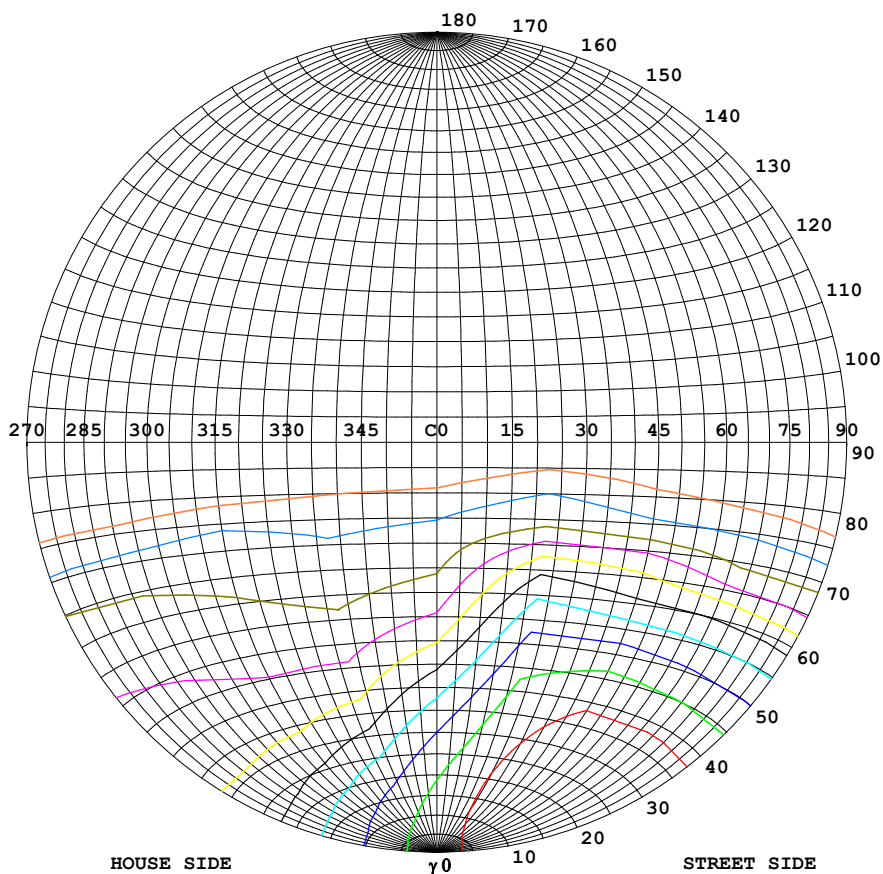
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3 °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:0.6752A P:80.631W PF:0.9971 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12127.7x1 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:

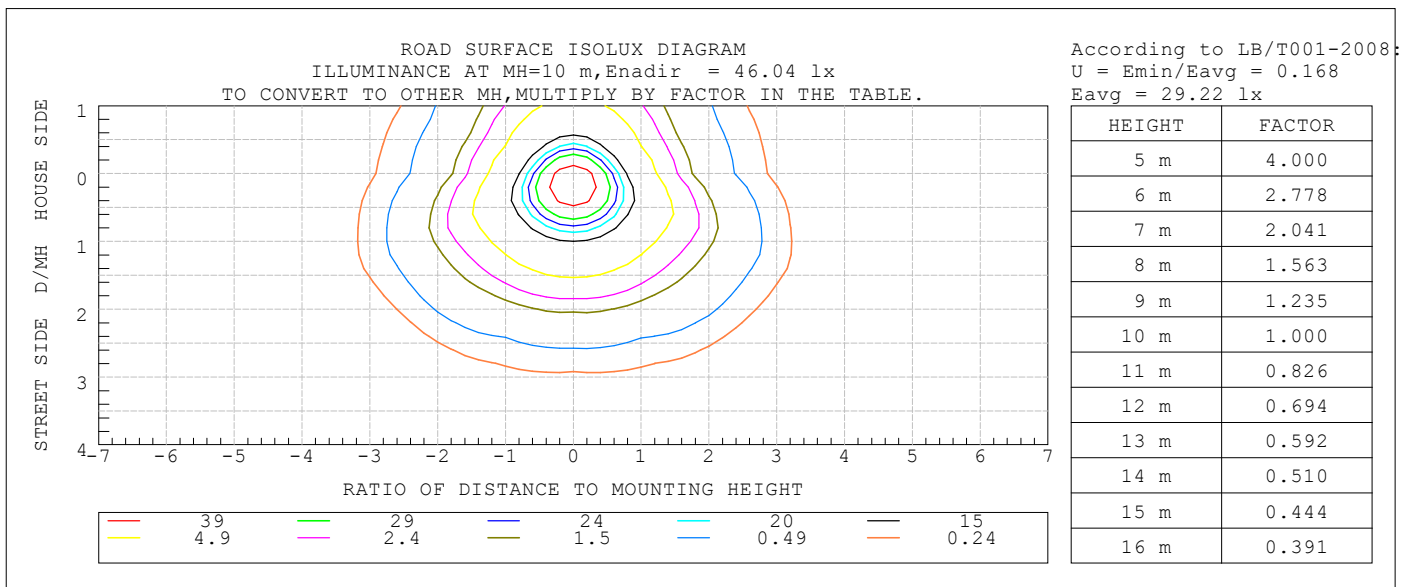
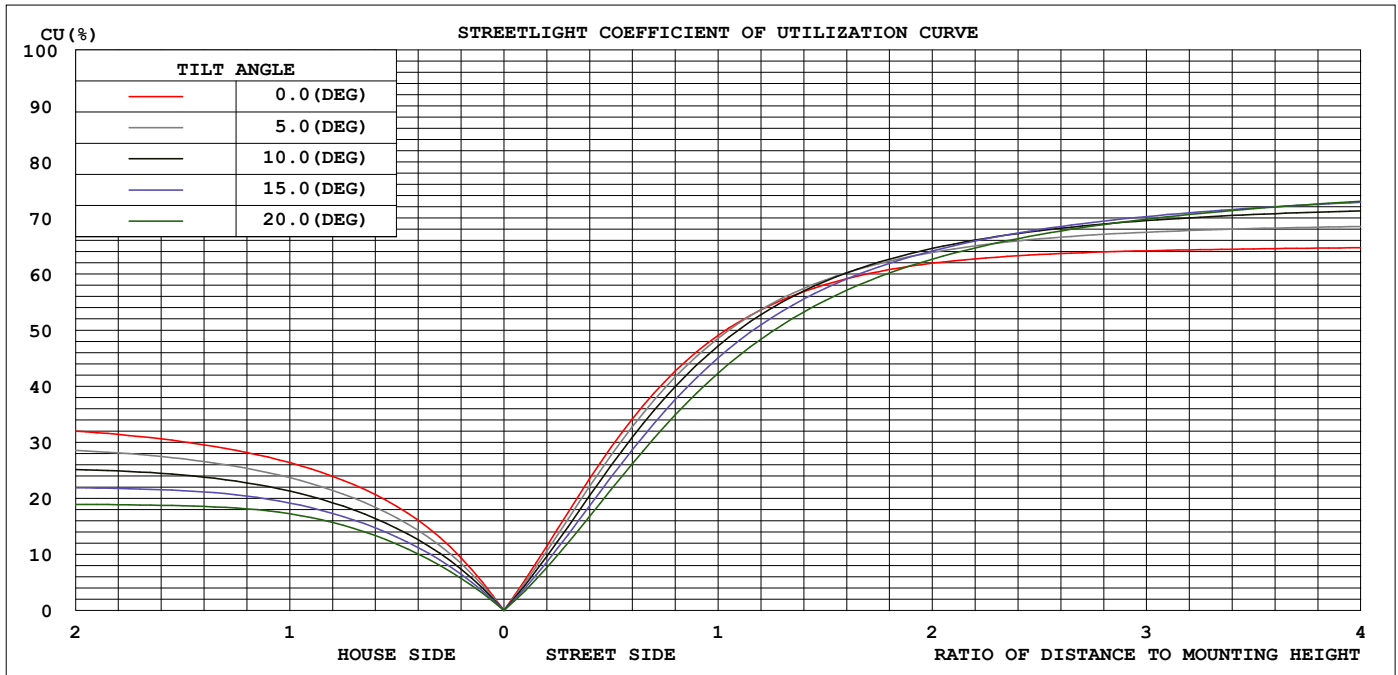
IES:Type II - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:44.17cd/klm
Max.At90:2.033cd/klm
Max.80-90:44.17cd/klm
NRB 5101:Limited[5.9%]

ISOCANDELA DIAGRAM		
UNIT		cd
Imax=100%		5354
90%		4818
80%		4283
70%		3748
60%		3212
50%		2677
40%		2141
30%		1606
20%		1071
10%		535
5%		268

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:0.6752A P:80.631W PF:0.9971 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12127.7x1 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:

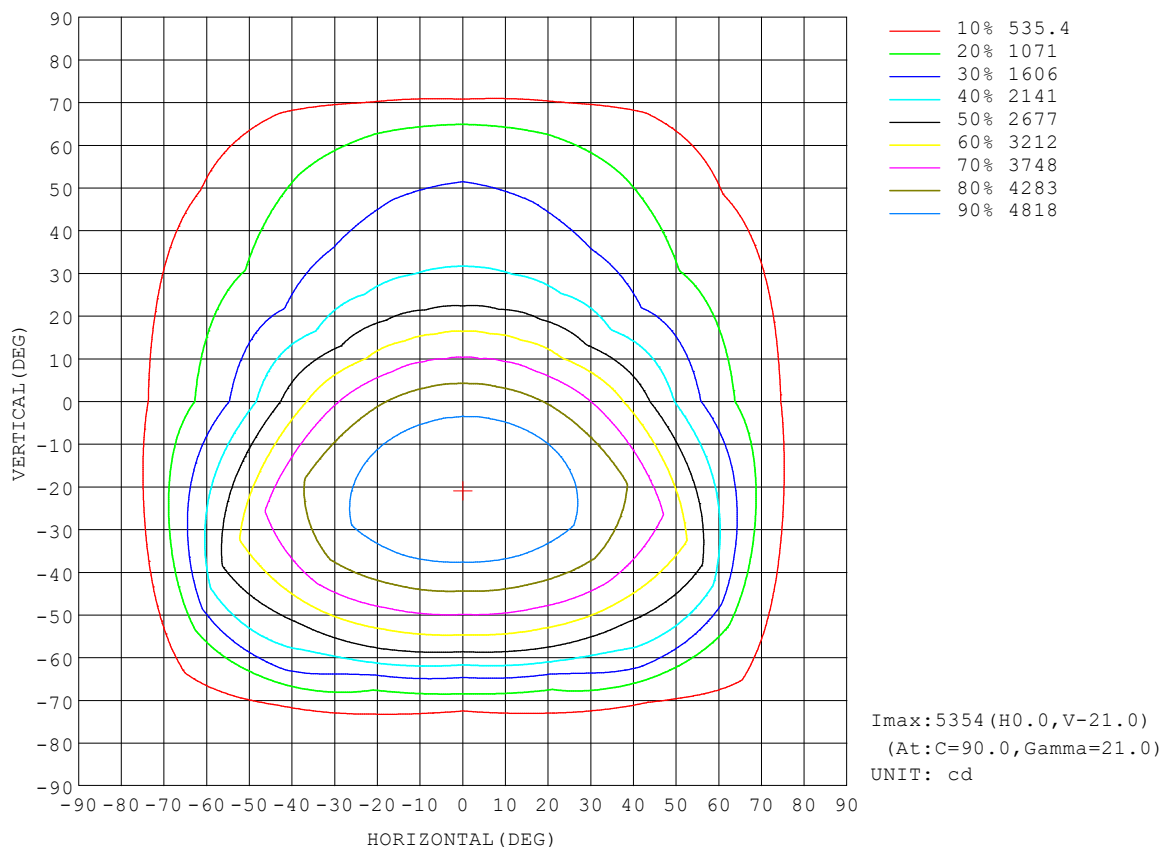
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4518	4981	5137	4963	4501	3984	3772	3992	0- 10	433.0	433.0	3.57,3.57
20	4237	5141	5351	5118	4200	3174	2883	3193	10- 20	1223	1656	13.7,13.7
30	3745	5082	5211	5067	3682	2359	2205	2377	20- 30	1817	3473	28.6,28.6
40	3017	4731	4650	4736	2913	1829	1885	1824	30- 40	2172	5645	46.5,46.5
50	2104	3978	3739	4005	1991	1454	1644	1436	40- 50	2252	7897	65.1,65.1
60	1306	2803	2453	2820	1235	1132	1307	1109	50- 60	2019	9916	81.8,81.8
70	742.6	1520	845.5	1625	699.5	752.7	601.4	737.2	60- 70	1427	11343	93.5,93.5
80	306.6	320.3	161.8	327.5	278.4	188.6	130.6	193.4	70- 80	577.8	11921	98.3,98.3
90	3.804	22.34	15.93	23.83	4.815	7.031	6.382	6.630	80- 90	127.1	12048	99.3,99.3
100	5.579	3.557	3.778	3.642	5.939	8.874	7.930	8.891	90-100	6.144	12054	99.4,99.4
110	8.395	5.156	5.470	5.317	8.822	12.70	12.29	12.77	100-110	7.849	12062	99.5,99.5
120	11.52	7.112	7.084	7.331	12.08	16.05	16.58	16.38	110-120	10.19	12072	99.5,99.5
130	14.79	9.720	9.162	10.07	15.39	19.20	20.31	19.63	120-130	11.84	12084	99.6,99.6
140	17.94	13.02	12.05	13.32	18.44	22.00	23.33	22.32	130-140	12.56	12096	99.7,99.7
150	20.49	16.44	15.45	16.61	21.08	24.48	25.88	24.58	140-150	12.01	12108	99.8,99.8
160	22.94	19.76	19.16	19.81	23.39	25.86	27.22	25.93	150-160	10.05	12118	99.9,99.9
170	25.17	23.04	23.06	23.27	25.24	26.43	27.49	26.61	160-170	6.764	12125	100,100
180	26.01	25.70	26.25	26.10	26.05	25.74	26.31	26.12	170-180	2.427	12128	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

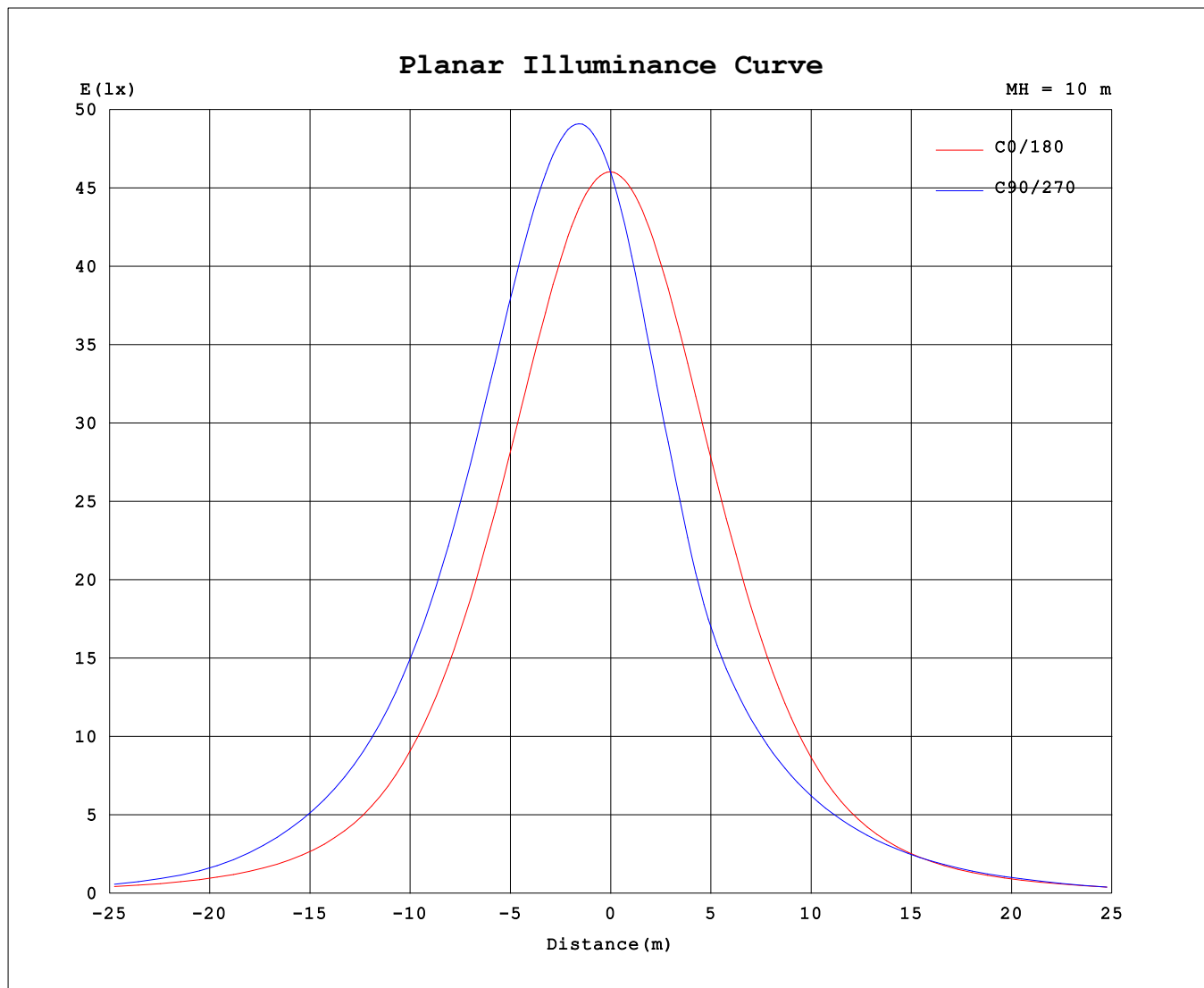
Test:U:119.77V I:0.6752A P:80.631W PF:0.9971 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12127.7x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



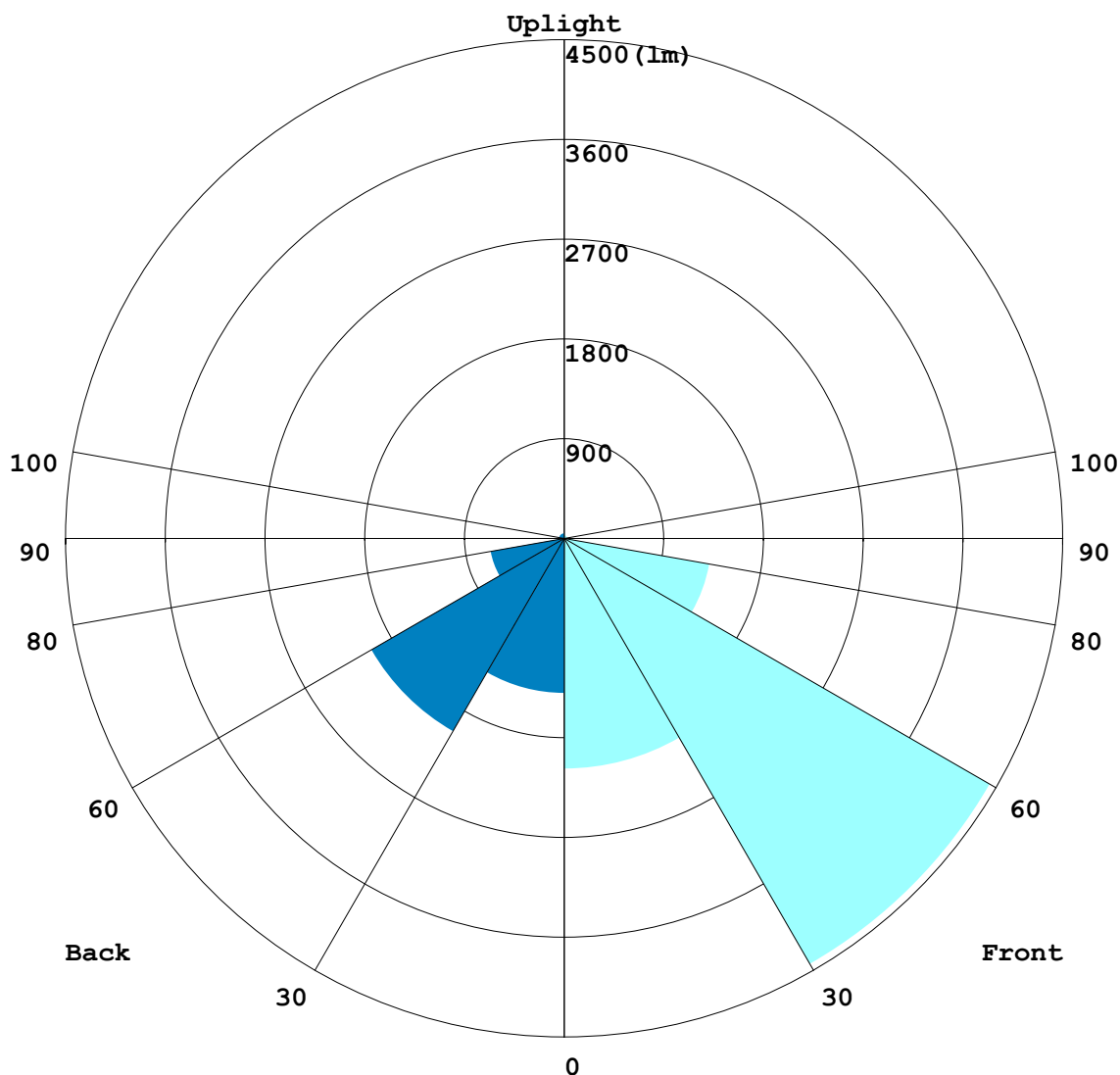
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:0.6752A P:80.631W PF:0.9971 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12127.7x1 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:0.6752A P:80.631W PF:0.9971 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12127.7x1 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)	2078.4	17.1
FM - Front-Medium(30-60)	4434	36.6
FH - Front-High(60-80)	1331	11.0
FVH - Front-Very High(80-90)	83.692	0.7
Total Forward Light	7958.1	65.6

BL - Back-Low(0-30)	1394.3	11.5
BM - Back-Medium(30-60)	2009.2	16.6
BH - Back-High(60-80)	673.8	5.6
BVH - Back-Very High(80-90)	43.427	0.4
Total Back Light	4169.6	34.4

UL - Uplight-Low(90-100)	6.144	0.1
UH - Uplight-High(100-180)	73.695	0.6
Total Up Light	79.839	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4120.8	48.807	4169.6
Street Side	7927.1	31.032	7958.1

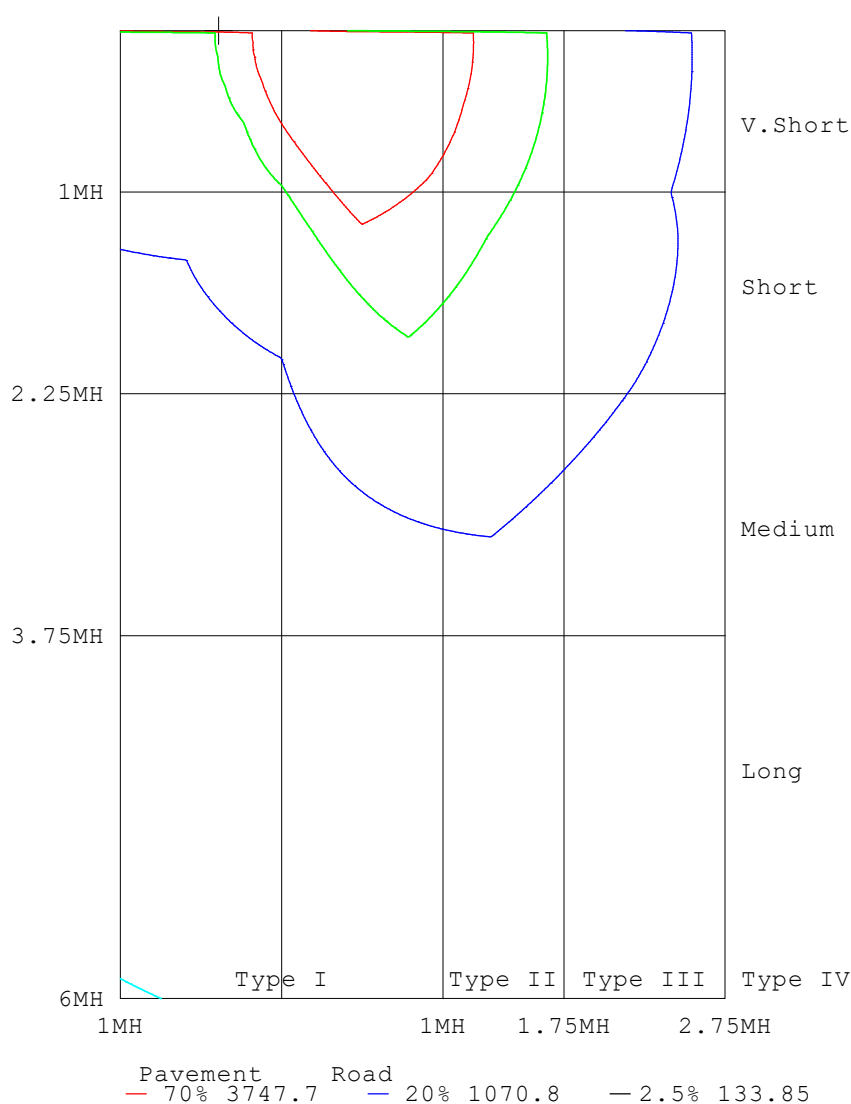
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:119.77V I:0.6752A P:80.631W PF:0.9971 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12127.7x1 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:0.6752A P:80.631W PF:0.9971 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:12127.7x1 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	4604	4597	4602	4592	4598	4589	4594	4588	4604	4597	4602	4592	4598	4589	4594	4588			
5	4583	4711	4816	4878	4902	4870	4803	4689	4575	4435	4325	4236	4220	4239	4326	4435			
10	4518	4775	4981	5097	5137	5088	4963	4746	4501	4217	3984	3811	3772	3816	3992	4226			
15	4401	4799	5087	5239	5285	5228	5066	4761	4377	3934	3588	3372	3326	3381	3604	3956			
20	4237	4785	5141	5307	5351	5299	5118	4740	4200	3586	3174	2944	2883	2954	3193	3617			
25	4019	4736	5141	5297	5330	5292	5119	4682	3969	3188	2756	2519	2476	2529	2779	3226			
30	3745	4653	5082	5201	5211	5197	5067	4590	3682	2770	2359	2218	2205	2223	2377	2811			
35	3413	4535	4951	5004	4984	5004	4944	4466	3329	2350	2060	2017	2027	2014	2067	2389			
40	3017	4380	4731	4695	4650	4704	4736	4307	2913	1974	1829	1856	1885	1847	1824	2005			
45	2570	4170	4410	4292	4233	4306	4428	4099	2453	1667	1631	1715	1764	1704	1618	1683			
50	2104	3904	3978	3812	3739	3827	4005	3838	1991	1402	1454	1587	1644	1575	1436	1406			
55	1669	3572	3428	3262	3176	3276	3459	3523	1580	1167	1293	1446	1499	1431	1271	1161			
60	1306	3138	2803	2636	2453	2662	2820	3120	1235	956	1132	1274	1307	1262	1109	943			
65	1001	2554	2235	1731	1553	1780	2233	2592	948	767	961	1048	1061	1038	938	750			
70	743	1735	1520	968	846	975	1625	1838	700	596	753	677	601	681	737	576			
75	516	883	613	472	345	493	672	934	478	437	445	333	306	335	453	417			
80	307	536	320	220	162	231	328	491	278	268	189	139	131	139	193	258			
85	110	252	149	94.5	74.1	99.3	153	232	98.1	85.6	59.5	57.1	56.5	56.5	57.8	83.3			
90	3.80	22.7	22.3	19.4	15.9	20.3	23.8	24.7	4.81	6.23	7.03	6.43	6.38	6.17	6.63	5.66			
95	4.36	3.03	2.86	2.96	2.99	3.00	2.91	3.21	4.71	6.37	7.01	6.37	5.95	6.42	7.03	6.56			
100	5.58	3.88	3.56	3.71	3.78	3.76	3.64	4.11	5.94	7.87	8.87	8.34	7.93	8.40	8.89	8.08			
105	6.94	4.87	4.34	4.53	4.64	4.60	4.44	5.14	7.31	9.45	10.8	10.5	10.1	10.5	10.8	9.71			
110	8.39	6.03	5.16	5.32	5.47	5.43	5.32	6.30	8.82	11.1	12.7	12.6	12.3	12.7	12.8	11.3			
115	9.92	7.32	6.07	6.10	6.26	6.24	6.26	7.56	10.4	12.6	14.4	14.7	14.4	14.8	14.6	12.8			
120	11.5	8.74	7.11	6.96	7.08	7.12	7.33	8.95	12.1	14.1	16.1	16.6	16.6	16.8	16.4	14.4			
125	13.1	10.3	8.32	7.96	8.02	8.15	8.59	10.5	13.7	15.6	17.6	18.4	18.5	18.8	18.1	15.9			
130	14.8	11.9	9.72	9.10	9.16	9.41	10.1	12.1	15.4	17.2	19.2	20.2	20.3	20.4	19.6	17.4			
135	16.4	13.6	11.3	10.5	10.5	10.9	11.7	13.7	17.0	18.7	20.6	21.8	21.9	21.9	21.0	18.8			
140	17.9	15.1	13.0	12.0	12.1	12.4	13.3	15.2	18.4	20.3	22.0	23.3	23.3	23.3	22.3	20.3			
145	19.2	16.6	14.7	13.6	13.6	14.1	14.9	16.5	19.8	21.6	23.3	24.6	24.7	24.5	23.5	21.5			
150	20.5	18.2	16.4	15.5	15.4	15.9	16.6	18.0	21.1	22.7	24.5	25.6	25.9	25.5	24.6	22.6			
155	21.8	19.7	18.1	17.3	17.3	17.7	18.2	19.5	22.3	23.6	25.3	26.3	26.7	26.1	25.4	23.6			
160	22.9	21.1	19.8	19.1	19.2	19.4	19.8	20.9	23.4	24.4	25.9	26.8	27.2	26.5	25.9	24.5			
165	24.1	22.4	21.4	20.8	21.1	21.2	21.5	22.5	24.4	25.0	26.3	27.1	27.4	26.8	26.4	25.4			
170	25.2	23.8	23.0	22.6	23.1	23.0	23.3	24.1	25.2	25.5	26.4	27.1	27.5	26.9	26.6	25.9			
175	25.8	24.8	24.4	24.3	24.8	24.5	24.8	25.3	25.9	25.8	26.3	26.7	27.2	26.8	26.7	26.4			
180	26.0	25.6	25.7	25.8	26.3	26.0	26.1	26.2	26.1	25.6	25.7	25.8	26.3	26.0	26.1	26.3			

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: