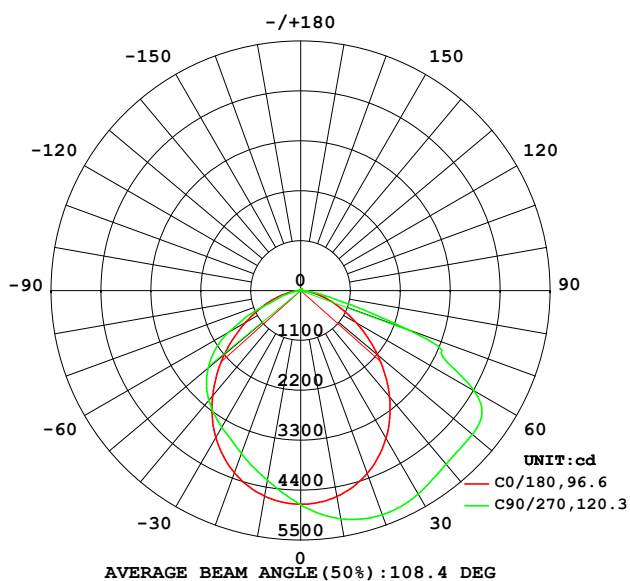
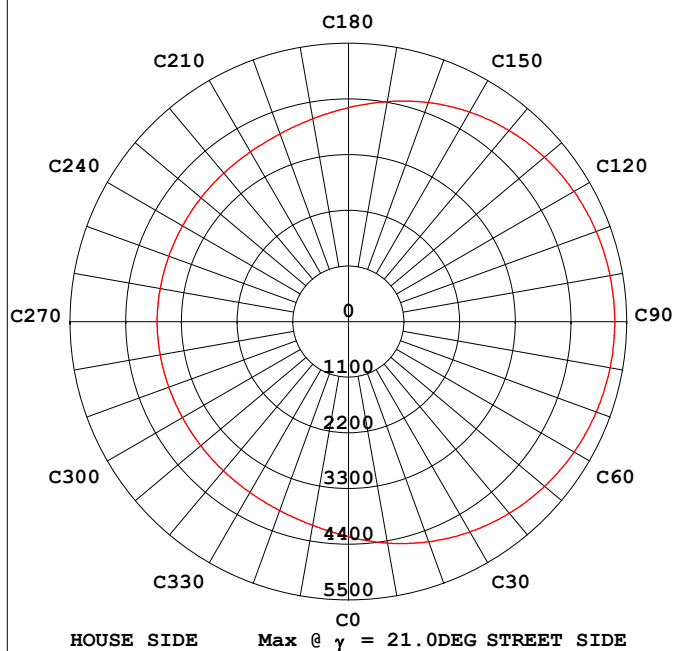


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.79V I:0.7868A P:94.019W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14577.1x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 155.04 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	5261	η street_up (%)	0.3
NOMINAL POWER (W)	100	LOR (%)	100.0	η street_down (%)	61.4
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	14577	η house_up (%)	0.4
NOMINAL FLUX (lm)	14577.1	MAXIMUM @ (C, γ)	90, 21.0	η house_down (%)	37.9
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

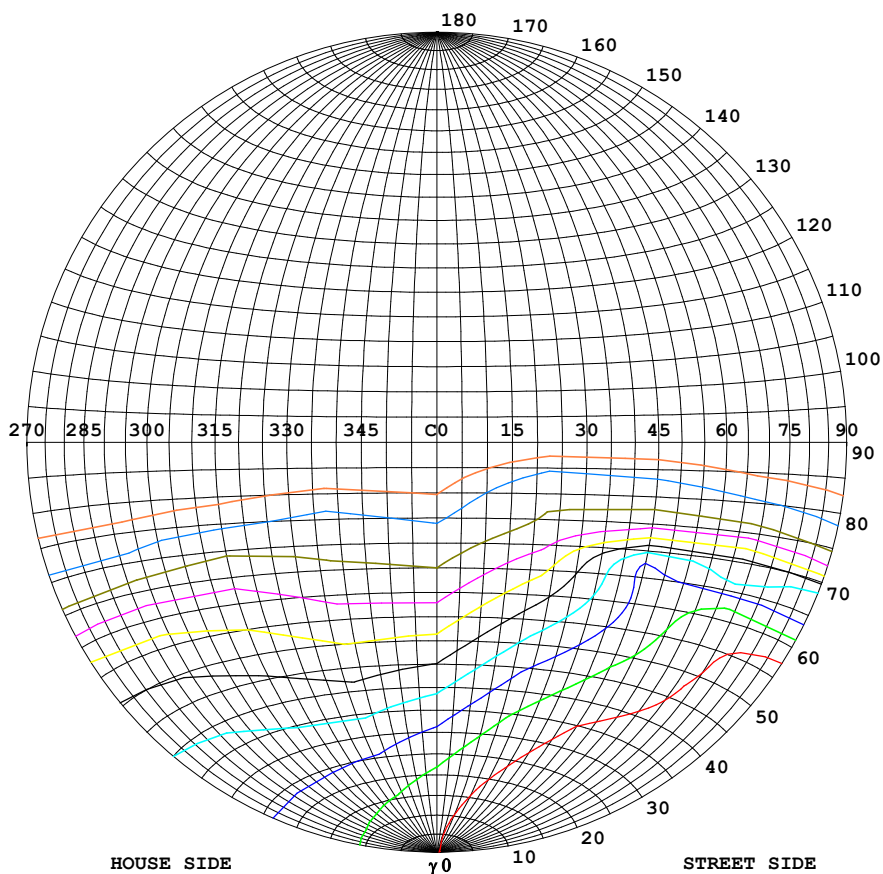
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:119.79V I:0.7868A P:94.019W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14577.1x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



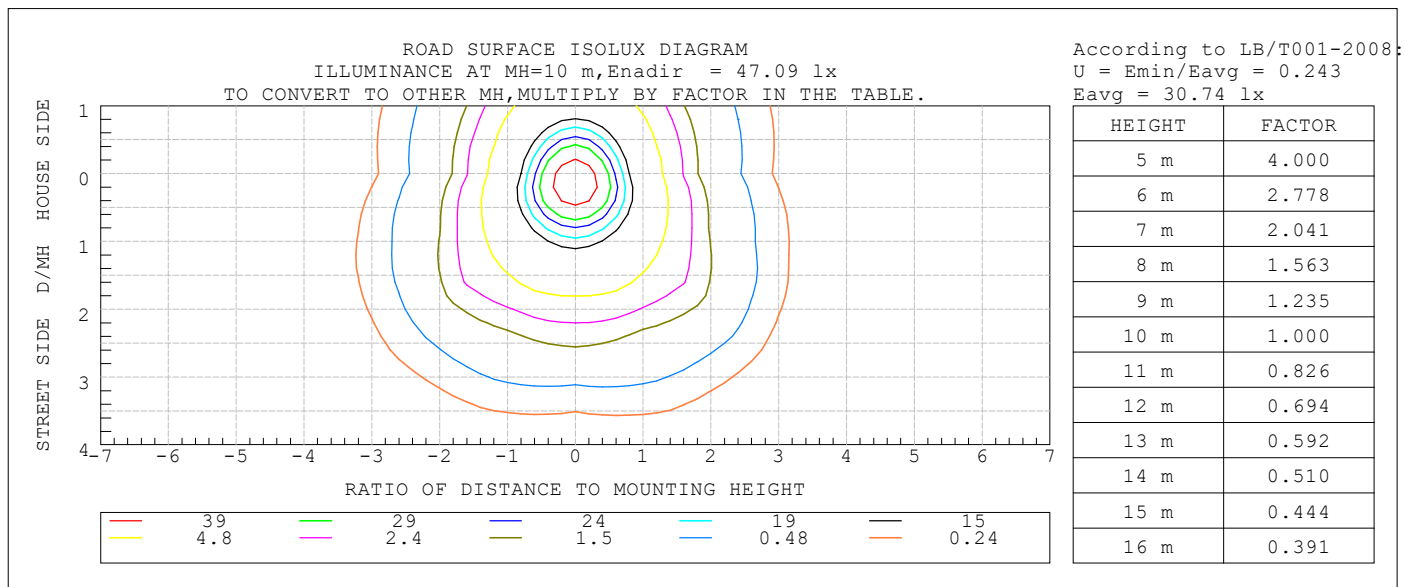
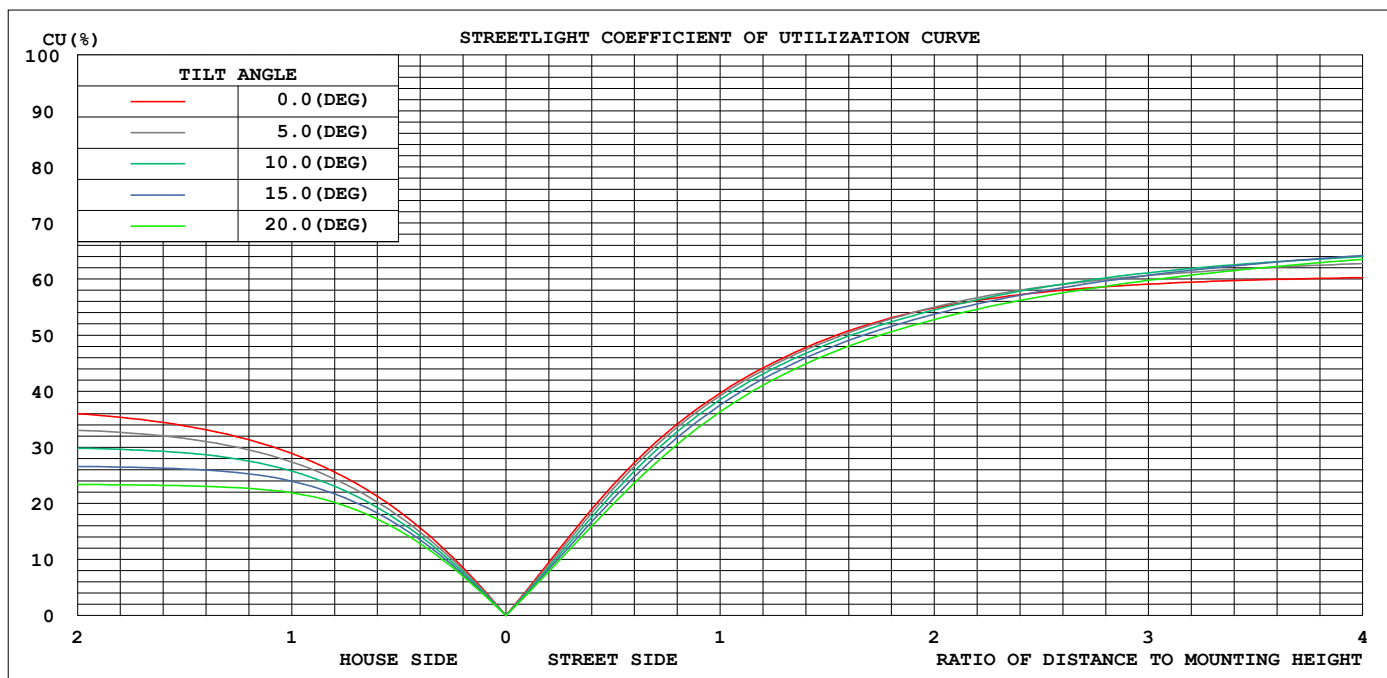
Classification:

IES:Type III - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:60.32cd/klm
Max.At90:5.605cd/klm
Max.80-90:60.32cd/klm
NRB 5101:Limited[7.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5261
90%	4735
80%	4209
70%	3683
60%	3157
50%	2630
40%	2104
30%	1578
20%	1052
10%	526
5%	263

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:0.7868A P:94.019W PF:0.9975 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:14577.1x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2			Type: 100W			Weight:		
SPEC.: 4000K			DIM.: 0-10V			Instrument No.: HUP-IES1-LAB		
MFR.:			SUR.: 0.28*0.16			shielding angle:		

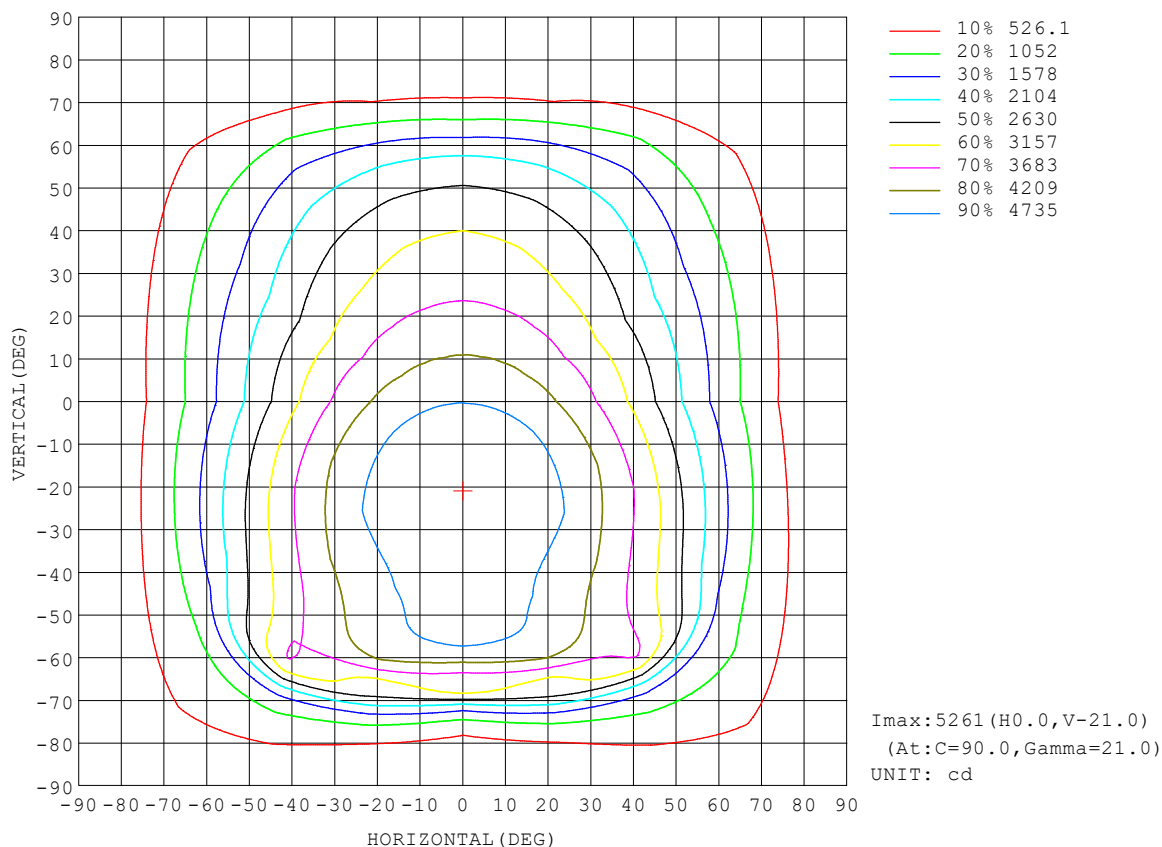
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4608	4965	5106	4963	4598	4323	4245	4335	0- 10	446.7	446.7	3.06,3.06
20	4290	5011	5259	5004	4274	3869	3824	3877	10- 20	1285	1732	11.9,11.9
30	3762	4869	5177	4856	3740	3376	3481	3375	20- 30	1968	3700	25.4,25.4
40	3047	4542	4992	4526	3020	2921	3155	2904	30- 40	2426	6126	42,42
50	2221	4088	4935	4048	2202	2418	2665	2391	40- 50	2626	8752	60,60
60	1412	3764	4416	3660	1401	1801	1818	1777	50- 60	2558	11310	77.6,77.6
70	740.0	3051	2525	3278	743.7	945.0	585.9	949.9	60- 70	2035	13345	91.5,91.5
80	247.4	810.8	392.3	796.3	259.8	195.4	173.7	199.4	70- 80	915.8	14261	97.8,97.8
90	4.216	75.84	35.03	81.71	5.438	9.900	11.19	9.443	80- 90	219.6	14480	99.3,99.3
100	6.266	5.511	5.569	5.534	6.273	10.80	12.68	11.18	90-100	9.479	14490	99.4,99.4
110	9.369	8.066	8.516	8.178	9.421	14.22	16.77	14.65	100-110	10.12	14500	99.5,99.5
120	12.76	10.69	11.24	10.86	12.87	17.40	20.26	17.89	110-120	12.59	14513	99.6,99.6
130	16.18	13.58	13.83	13.90	16.23	21.18	23.37	21.13	120-130	14.19	14527	99.7,99.7
140	19.44	16.89	16.81	17.42	19.38	24.53	26.58	24.34	130-140	14.73	14542	99.8,99.8
150	22.33	20.41	20.24	20.92	22.43	26.62	29.01	26.70	140-150	13.87	14555	99.9,99.9
160	25.22	23.65	23.82	24.10	25.14	27.54	29.43	27.83	150-160	11.41	14567	99.9,99.9
170	27.72	26.60	27.03	27.00	27.48	28.44	29.60	28.75	160-170	7.565	14574	100,100
180	28.58	28.58	29.21	28.96	28.60	28.58	29.27	28.96	170-180	2.696	14577	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

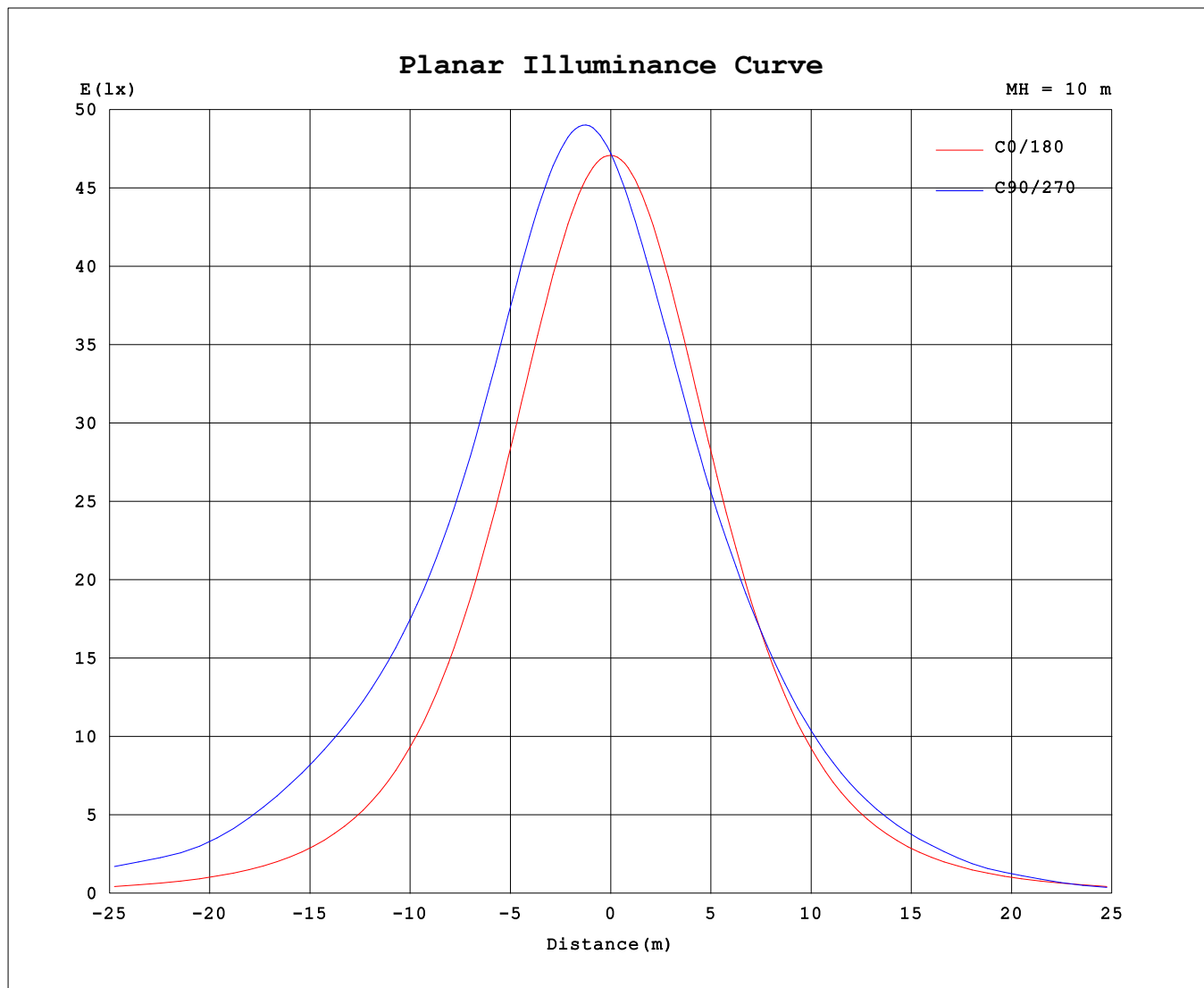
Test:U:119.79V I:0.7868A P:94.019W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14577.1x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



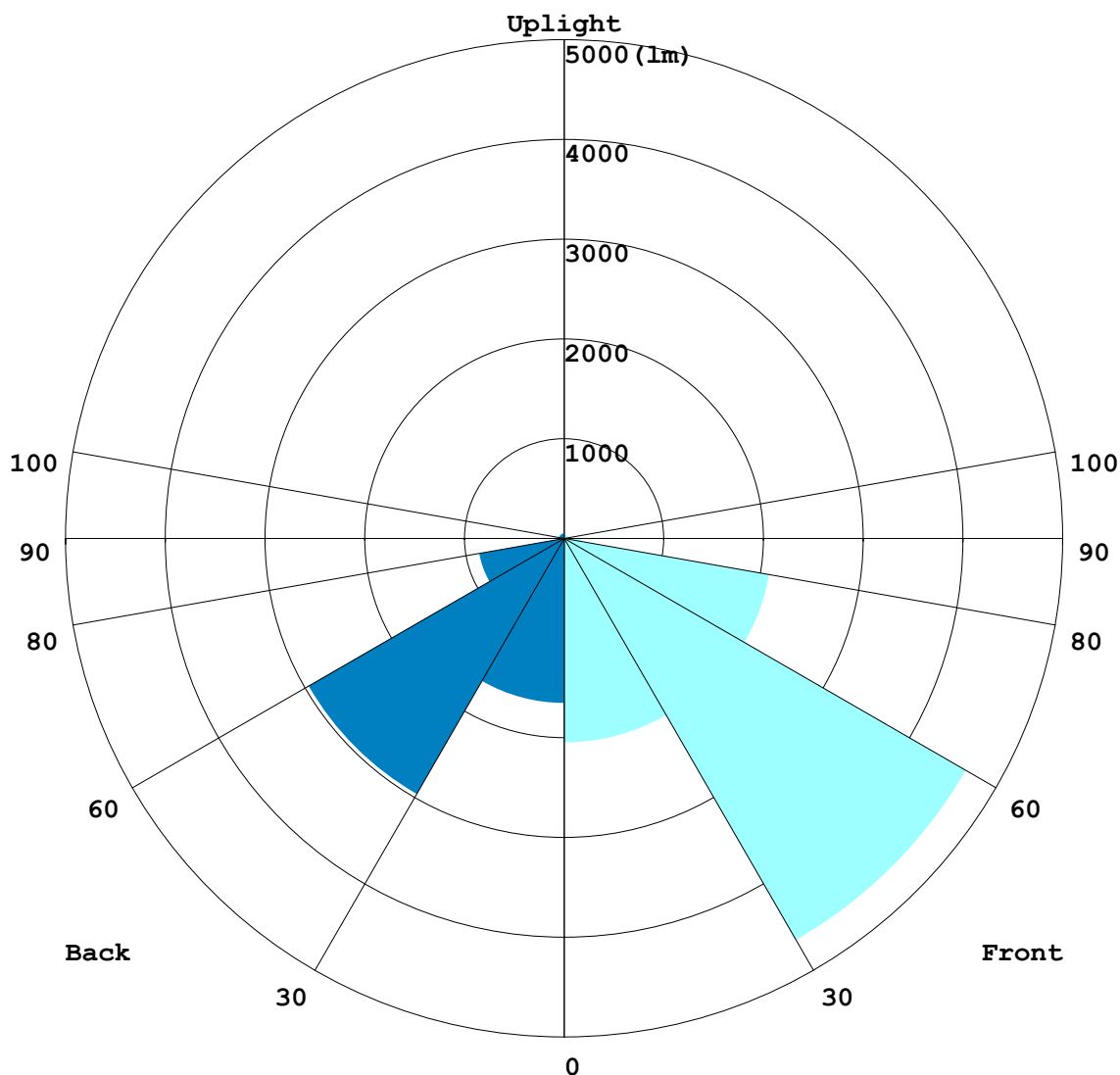
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:0.7868A P:94.019W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14577.1x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	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:0.7868A P:94.019W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14577.1x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	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)	2047.7	14.0
FM - Front-Medium(30-60)	4652.1	31.9
FH - Front-High(60-80)	2087.1	14.3
FVH - Front-Very High(80-90)	168.65	1.2
Total Forward Light	8996.5	61.7

BL - Back-Low(0-30)	1652.2	11.3
BM - Back-Medium(30-60)	2957.9	20.3
BH - Back-High(60-80)	864	5.9
BVH - Back-Very High(80-90)	50.988	0.3
Total Back Light	5580.6	38.3

UL - Uplight-Low(90-100)	9.4794	0.1
UH - Uplight-High(100-180)	87.174	0.6
Total Up Light	96.653	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5525	55.52	5580.6
Street Side	8955.4	41.133	8996.5

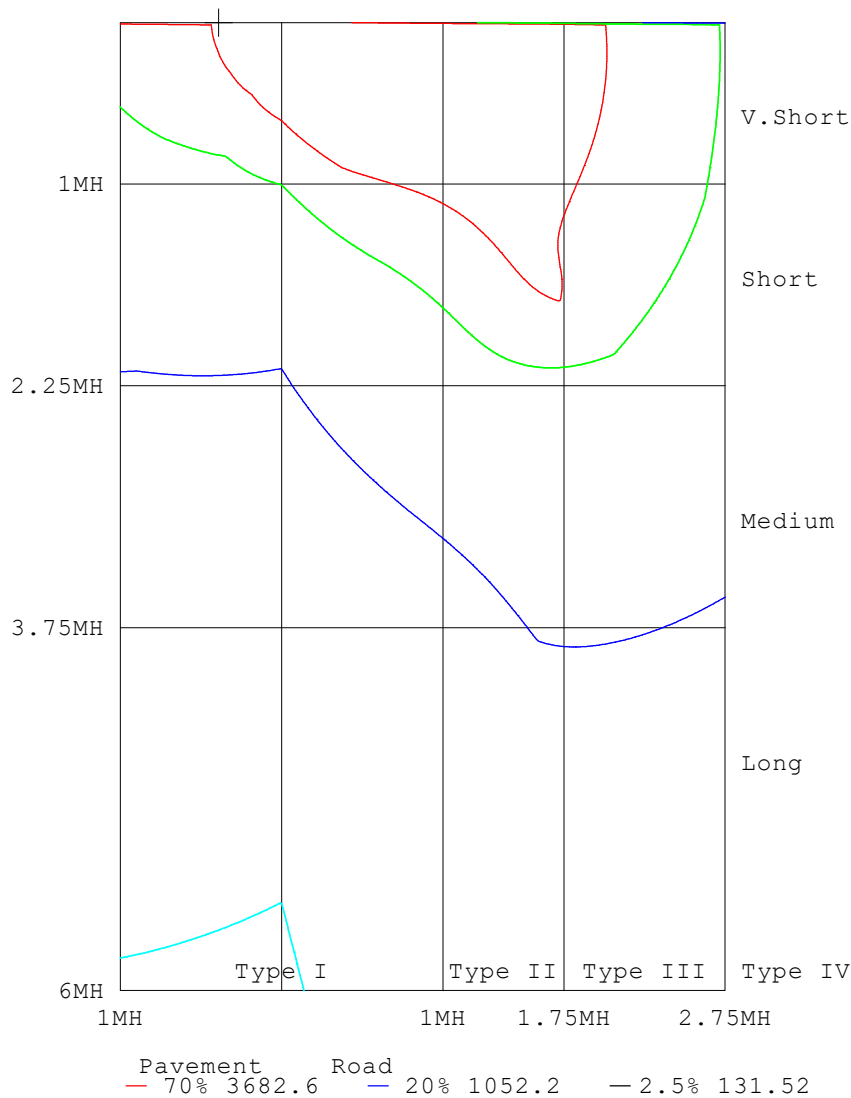
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:119.79V I:0.7868A P:94.019W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14577.1x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	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:0.7868A P:94.019W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14577.1x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	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	4709	4712	4716	4712	4722	4718	4724	4721	4709	4712	4716	4712	4722	4718	4724	4721			
5	4685	4781	4863	4916	4940	4916	4866	4786	4682	4594	4532	4486	4482	4493	4544	4609			
10	4608	4800	4965	5067	5106	5066	4963	4799	4598	4432	4323	4256	4245	4263	4335	4452			
15	4478	4772	5012	5162	5210	5157	5009	4763	4463	4227	4098	4037	4031	4042	4110	4249			
20	4290	4693	5011	5198	5259	5195	5004	4678	4274	3983	3869	3824	3824	3827	3877	4005			
25	4051	4568	4964	5179	5246	5178	4954	4544	4031	3710	3625	3613	3631	3614	3630	3727			
30	3762	4399	4869	5109	5177	5107	4856	4367	3740	3411	3376	3433	3481	3429	3375	3424			
35	3427	4185	4729	4995	5077	4990	4713	4145	3399	3090	3144	3270	3329	3263	3135	3095			
40	3047	3930	4542	4868	4992	4856	4526	3878	3020	2760	2921	3089	3155	3078	2904	2758			
45	2642	3632	4321	4769	4947	4748	4295	3569	2616	2437	2686	2868	2938	2856	2660	2423			
50	2221	3280	4088	4715	4935	4686	4048	3206	2202	2122	2418	2601	2665	2589	2391	2098			
55	1805	2889	3883	4685	4864	4658	3816	2803	1790	1809	2122	2274	2317	2266	2097	1778			
60	1412	2458	3764	4488	4416	4503	3660	2368	1401	1497	1801	1871	1818	1867	1777	1464			
65	1052	1992	3811	3477	3447	3565	3695	1896	1050	1194	1439	1284	1218	1284	1422	1160			
70	740	1502	3051	2769	2525	2750	3278	1401	744	906	945	627	586	635	950	875			
75	471	1106	1463	1364	932	1446	1506	950	481	630	442	351	328	352	451	607			
80	247	879	811	581	392	624	796	693	260	321	195	173	174	172	199	322			
85	77.1	471	390	231	170	248	386	388	90.6	91.1	76.8	84.3	86.2	82.8	73.2	88.5			
90	4.22	45.8	75.8	44.7	35.0	49.1	81.7	49.9	5.44	7.20	9.90	11.0	11.2	10.4	9.44	6.53			
95	4.90	4.13	4.37	4.32	4.29	4.36	4.39	4.26	4.96	6.91	9.02	10.4	10.4	10.5	9.42	7.28			
100	6.27	5.25	5.51	5.58	5.57	5.59	5.53	5.40	6.27	8.41	10.8	12.5	12.7	12.6	11.2	8.80			
105	7.76	6.52	6.78	6.97	7.02	6.98	6.83	6.72	7.78	10.00	12.6	14.4	15.0	14.6	13.0	10.4			
110	9.37	7.89	8.07	8.37	8.52	8.41	8.18	8.13	9.42	11.7	14.2	16.2	16.8	16.4	14.6	12.1			
115	11.0	9.35	9.37	9.71	9.93	9.78	9.50	9.61	11.1	13.5	15.8	17.8	18.4	18.1	16.3	13.6			
120	12.8	10.9	10.7	11.0	11.2	11.1	10.9	11.2	12.9	15.3	17.4	19.6	20.3	20.0	17.9	15.3			
125	14.5	12.5	12.1	12.3	12.5	12.4	12.3	12.9	14.6	17.2	19.3	21.2	21.8	21.4	19.6	16.9			
130	16.2	14.3	13.6	13.6	13.8	13.8	13.9	14.6	16.2	18.9	21.2	23.0	23.4	22.9	21.1	18.6			
135	17.8	16.0	15.2	15.1	15.2	15.4	15.7	16.4	17.8	20.5	23.0	24.7	24.9	24.3	22.6	20.3			
140	19.4	17.7	16.9	16.6	16.8	17.0	17.4	18.1	19.4	21.9	24.5	26.5	26.6	25.8	24.3	22.0			
145	20.8	19.4	18.5	18.1	18.3	18.6	19.1	19.7	20.9	23.1	25.7	27.8	28.1	27.2	25.7	23.3			
150	22.3	21.1	20.4	20.0	20.2	20.5	20.9	21.4	22.4	24.1	26.6	28.5	29.0	28.0	26.7	24.5			
155	23.9	22.7	22.1	21.8	22.1	22.4	22.6	23.0	23.8	25.1	27.2	28.8	29.4	28.4	27.4	25.5			
160	25.2	24.2	23.7	23.5	23.8	23.9	24.1	24.4	25.1	25.9	27.5	28.9	29.4	28.5	27.8	26.5			
165	26.5	25.6	25.2	25.0	25.4	25.4	25.6	25.9	26.4	26.8	28.0	29.0	29.5	28.7	28.4	27.5			
170	27.7	26.9	26.6	26.5	27.0	26.9	27.0	27.3	27.5	27.5	28.4	29.1	29.6	28.8	28.8	28.3			
175	28.4	27.7	27.7	27.7	28.3	28.0	28.1	28.3	28.4	28.2	28.8	29.2	29.7	29.2	29.2	29.0			
180	28.6	28.3	28.6	28.7	29.2	28.8	29.0	29.0	28.6	28.3	28.6	28.8	29.3	28.9	29.0	29.0			

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: