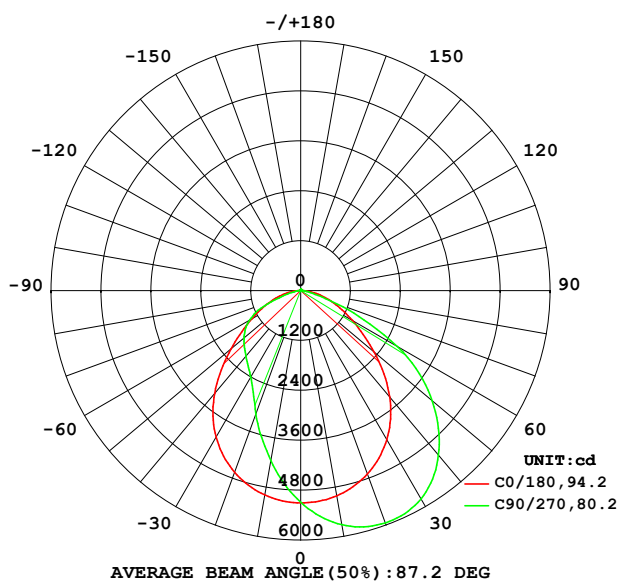
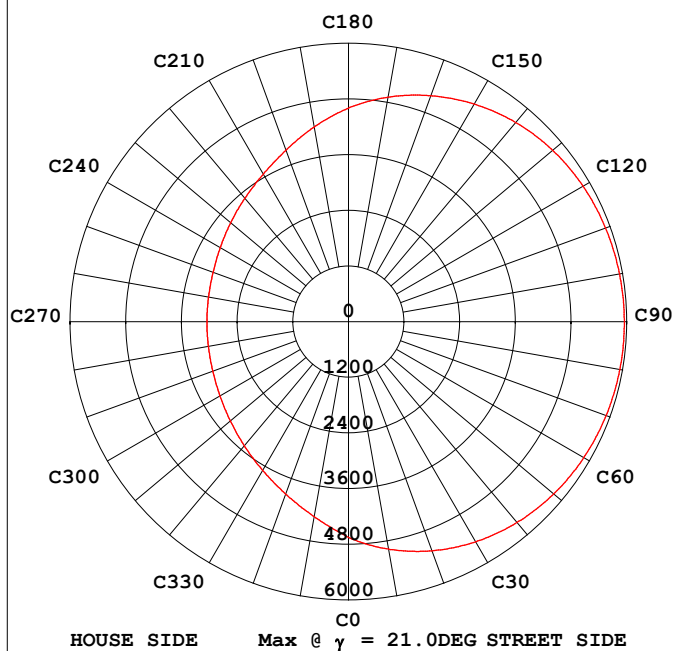


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.75V I:0.8265A P:98.728W PF:0.9976 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13340.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	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: 135.12 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	5946	η street_up (%)	0.3
NOMINAL POWER (W)	100	LOR (%)	100.0	η street_down (%)	65.6
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	13340	η house_up (%)	0.4
NOMINAL FLUX (lm)	13340.2	MAXIMUM @ (C, γ)	90, 21.0	η house_down (%)	33.8
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

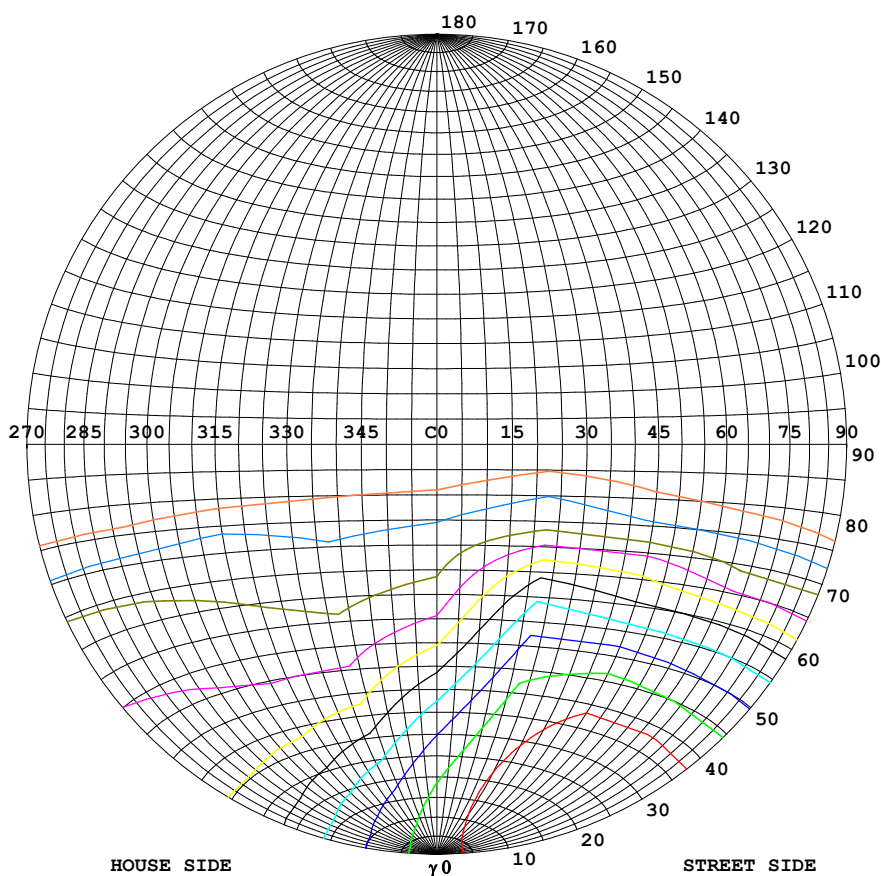
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:119.75V I:0.8265A P:98.728W PF:0.9976 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13340.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



Classification:

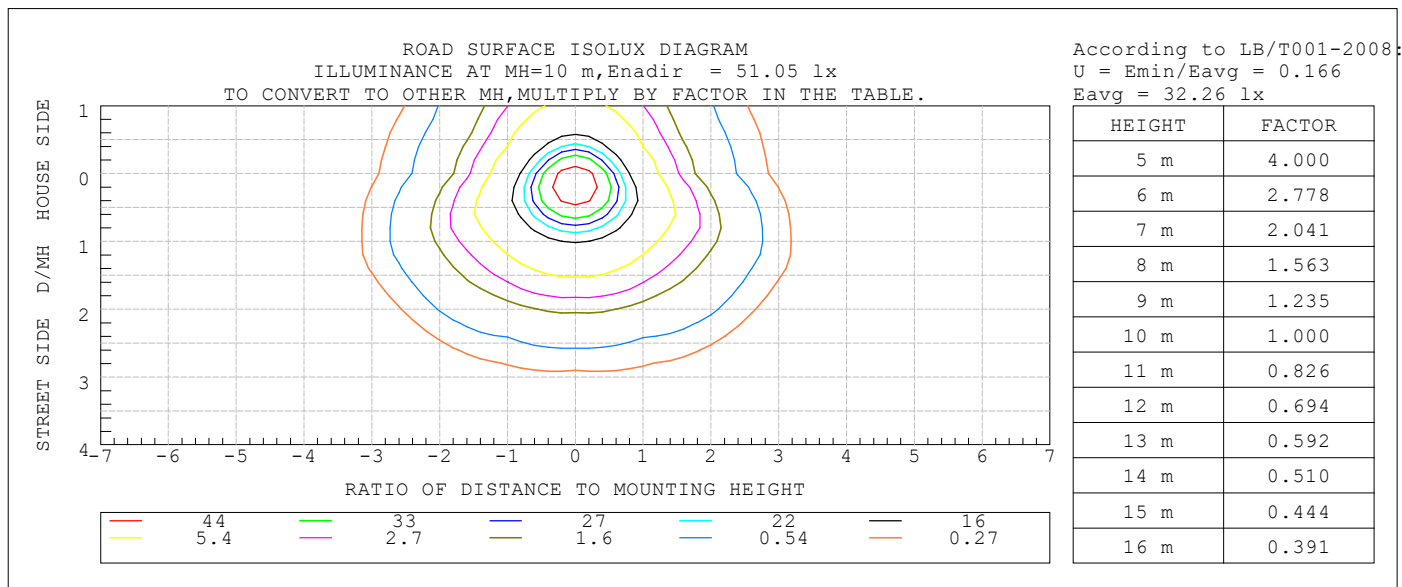
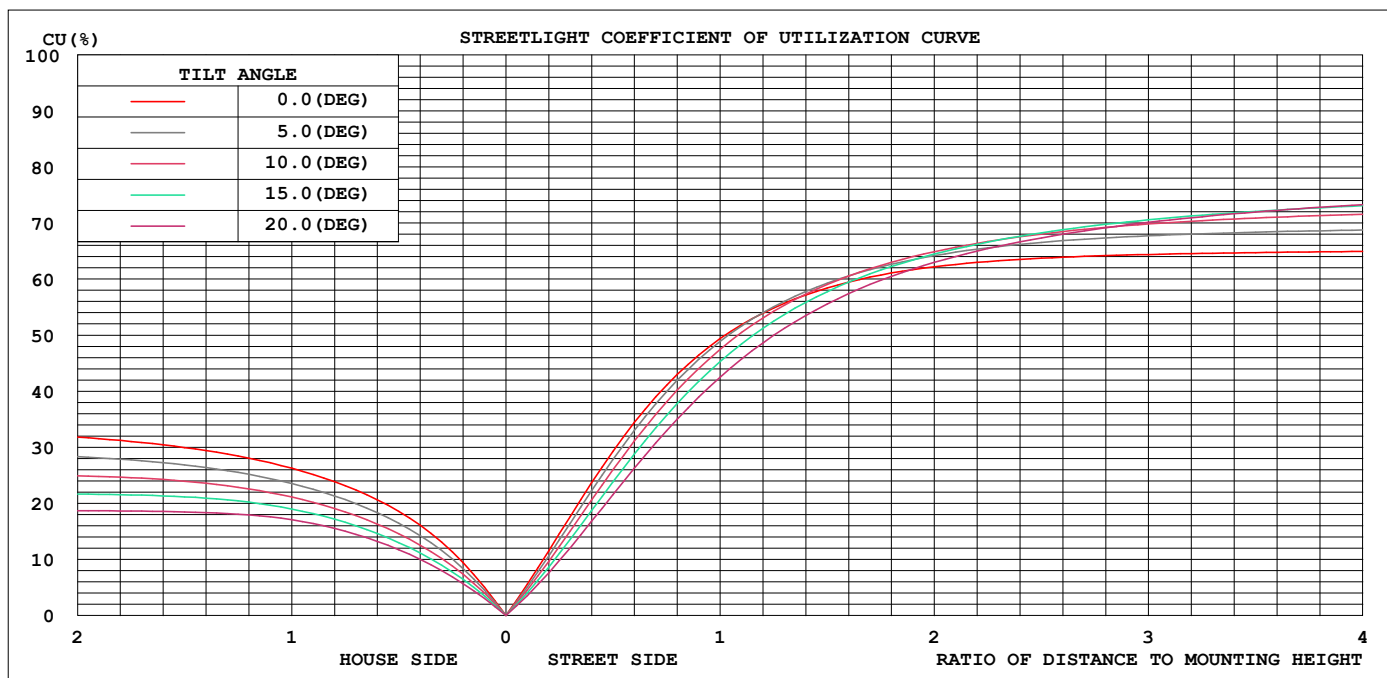
IES:Type II - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:43.89cd/klm
Max.At90:2.117cd/klm
Max.80-90:43.89cd/klm
NRB 5101:Limited[5.8%]

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	5946
90%	5351
80%	4757
70%	4162
60%	3568
50%	2973
40%	2378
30%	1784
20%	1189
10%	595
5%	297

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:119.75V I:0.8265A P:98.728W PF:0.9976 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:13340.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Type: 100W		Weight:				
SPEC.: 3000K		DIM.: 0-10V		Instrument No.: HUP-IES1-LAB				
MFR.:		SUR.: 0.28*0.16		shielding angle:				

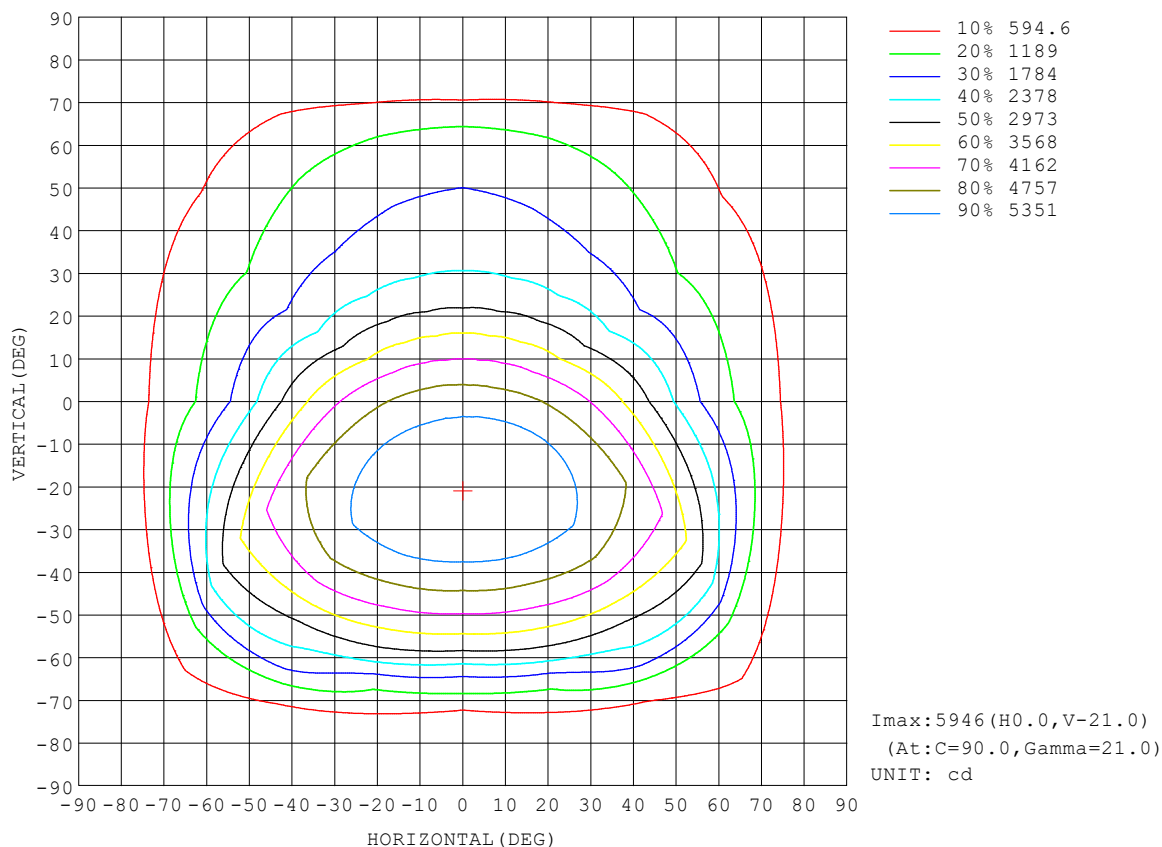
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	5009	5540	5715	5509	4990	4392	4148	4393	0- 10	479.4	479.4	3.59,3.59
20	4694	5716	5944	5681	4652	3487	3157	3499	10- 20	1353	1832	13.7,13.7
30	4143	5642	5787	5613	4070	2579	2405	2595	20- 30	2008	3840	28.8,28.8
40	3332	5249	5157	5240	3217	1992	2051	1985	30- 40	2397	6237	46.8,46.8
50	2316	4397	4131	4418	2194	1581	1785	1560	40- 50	2481	8718	65.4,65.4
60	1440	3070	2678	3086	1359	1230	1413	1203	50- 60	2215	10933	82,82
70	817.8	1640	923.0	1771	769.1	815.9	646.8	798.5	60- 70	1555	12488	93.6,93.6
80	340.5	350.2	173.1	357.5	308.6	207.1	140.8	210.4	70- 80	625.2	13113	98.3,98.3
90	4.329	24.87	17.92	27.16	5.216	7.507	6.739	7.013	80- 90	138.8	13252	99.3,99.3
100	6.448	4.031	4.263	4.114	6.377	9.513	8.417	9.585	90-100	6.737	13259	99.4,99.4
110	9.705	5.819	6.110	5.977	9.509	13.72	13.16	13.86	100-110	8.592	13268	99.5,99.5
120	12.94	8.012	7.895	8.242	13.01	17.35	17.78	17.79	110-120	11.16	13279	99.5,99.5
130	16.76	10.93	10.22	11.32	16.64	20.84	21.83	21.31	120-130	12.98	13292	99.6,99.6
140	20.16	14.63	13.47	14.96	20.11	24.08	25.33	24.38	130-140	13.82	13305	99.7,99.7
150	23.05	18.45	17.31	18.65	23.15	26.97	28.41	27.07	140-150	13.28	13319	99.8,99.8
160	25.61	22.13	21.47	22.19	25.78	28.65	30.14	28.67	150-160	11.16	13330	99.9,99.9
170	28.00	25.76	25.77	25.98	27.90	29.44	30.54	29.60	160-170	7.527	13337	100,100
180	28.85	28.68	29.29	29.05	28.86	28.74	29.35	29.04	170-180	2.702	13340	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

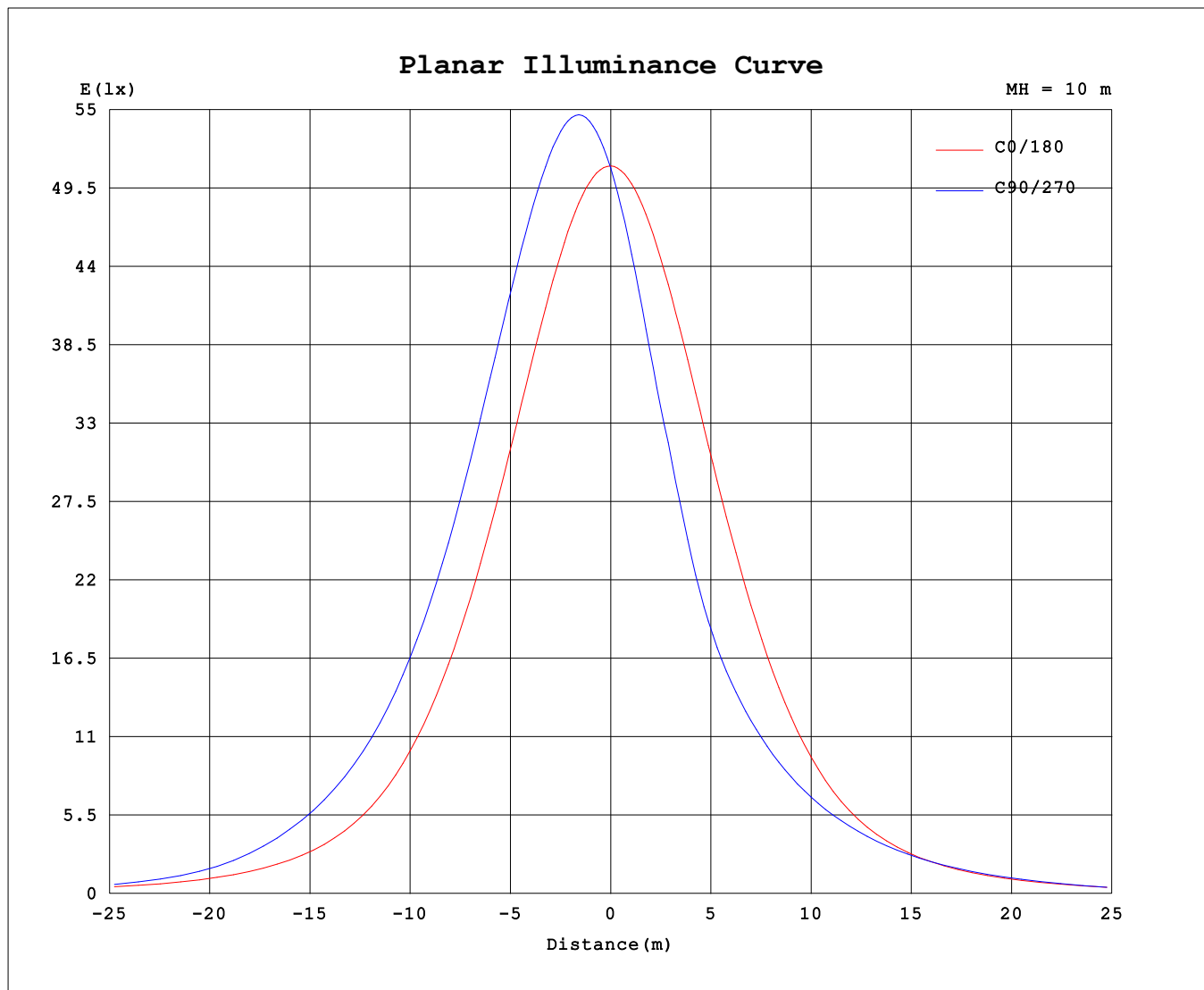
Test:U:119.75V I:0.8265A P:98.728W PF:0.9976 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13340.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



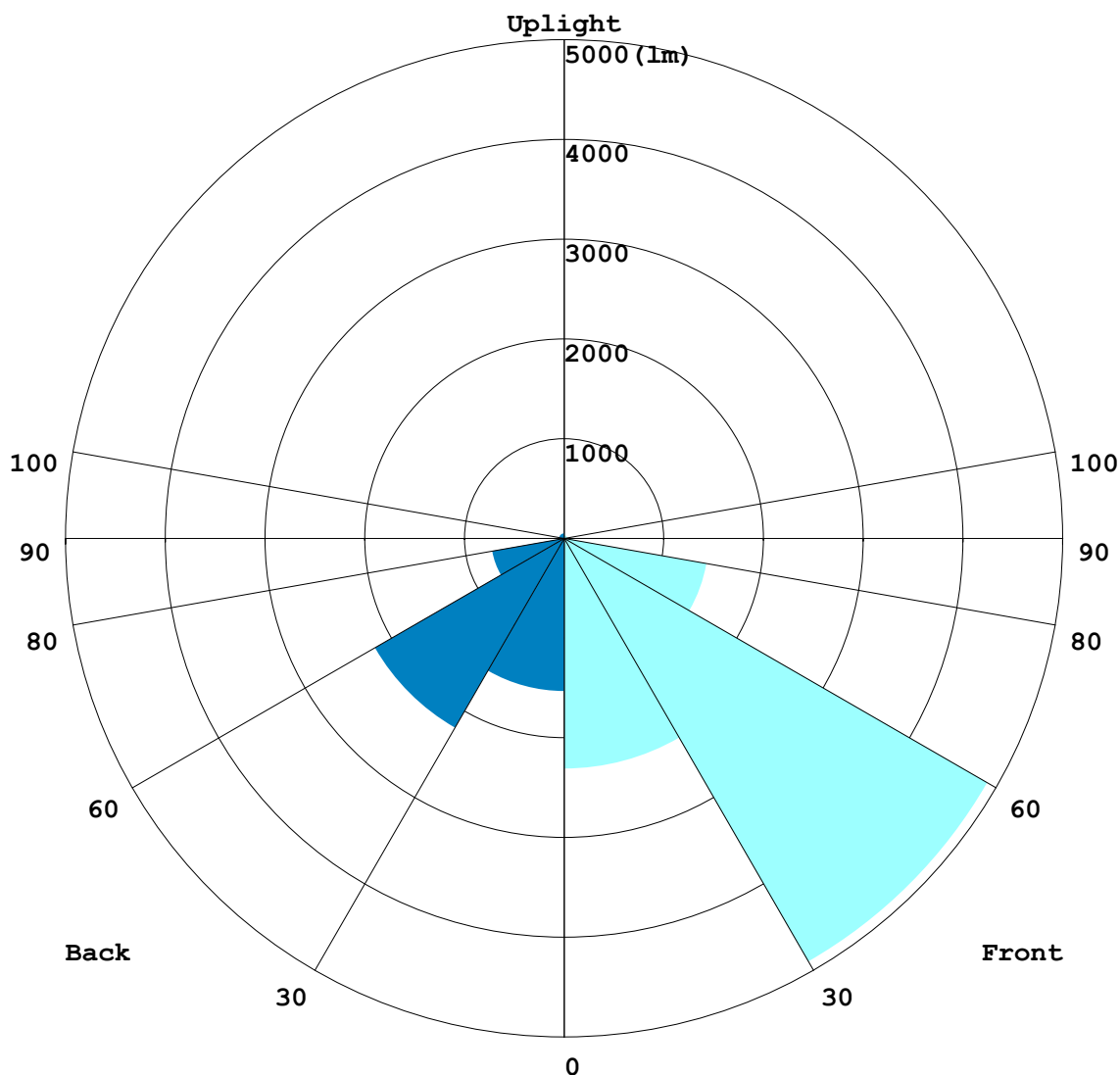
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:119.75V I:0.8265A P:98.728W PF:0.9976 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13340.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	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:119.75V I:0.8265A P:98.728W PF:0.9976 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13340.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	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)	2307.5	17.3
FM - Front-Medium(30-60)	4900.9	36.7
FH - Front-High(60-80)	1448.8	10.9
FVH - Front-Very High(80-90)	91.541	0.7
Total Forward Light	8783.6	65.8

BL - Back-Low(0-30)	1532.5	11.5
BM - Back-Medium(30-60)	2192.2	16.4
BH - Back-High(60-80)	731.54	5.5
BVH - Back-Very High(80-90)	47.288	0.4
Total Back Light	4556.6	34.2

UL - Uplight-Low(90-100)	6.7366	0.1
UH - Uplight-High(100-180)	81.218	0.6
Total Up Light	87.955	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4503.5	53.086	4556.6
Street Side	8748.7	34.869	8783.6

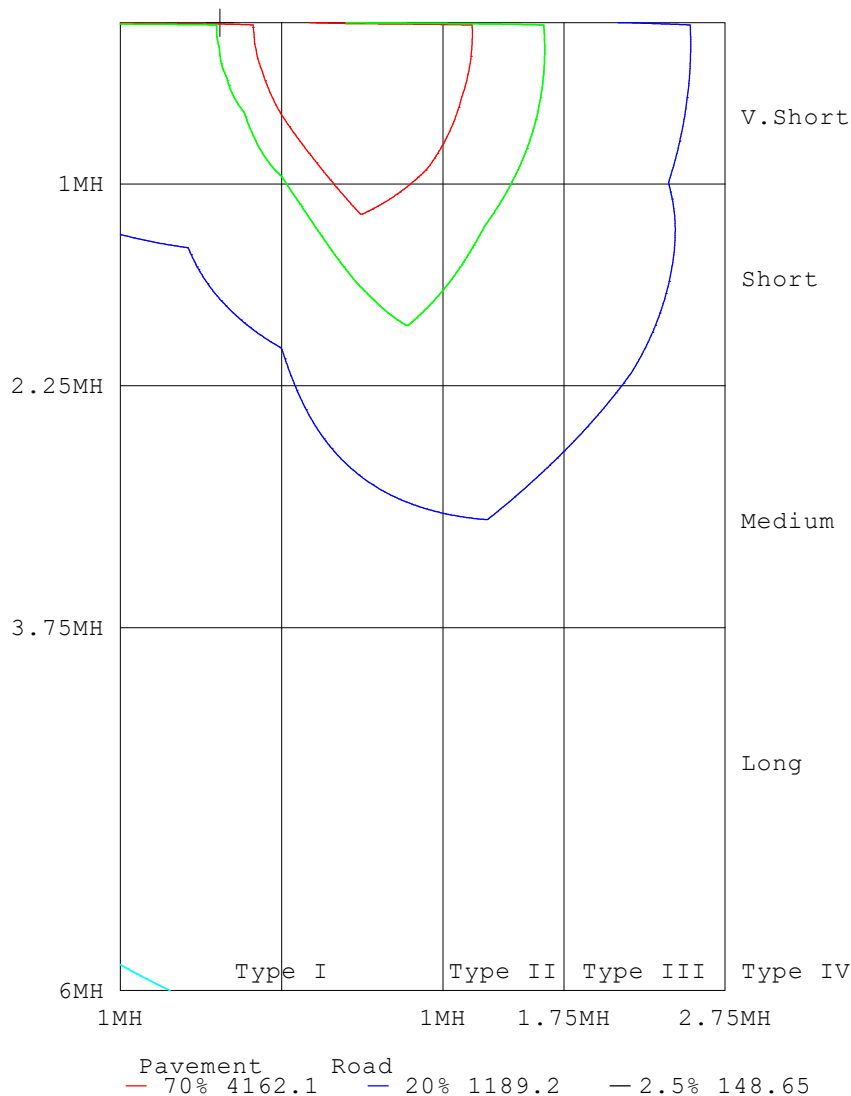
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:

ROAD ISOCANDELA REPORT

Test:U:119.75V I:0.8265A P:98.728W PF:0.9976 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13340.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	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:119.75V I:0.8265A P:98.728W PF:0.9976 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:13340.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2			Type: 100W			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	5105	5098	5096	5084	5089	5076	5081	5072	5105	5098	5096	5084	5089	5076	5081	5072			
5	5083	5229	5349	5419	5446	5406	5325	5192	5074	4910	4782	4675	4656	4674	4773	4893			
10	5009	5308	5540	5672	5715	5656	5509	5258	4990	4662	4392	4197	4148	4198	4393	4657			
15	4878	5338	5660	5829	5878	5812	5626	5280	4849	4342	3942	3700	3651	3704	3949	4350			
20	4694	5324	5716	5898	5944	5882	5681	5256	4652	3952	3487	3228	3157	3235	3499	3974			
25	4449	5266	5710	5883	5917	5872	5678	5190	4392	3505	3022	2752	2705	2761	3037	3537			
30	4143	5167	5642	5776	5787	5769	5613	5083	4070	3040	2579	2421	2405	2422	2595	3073			
35	3770	5031	5495	5555	5532	5554	5476	4941	3682	2574	2248	2197	2210	2193	2254	2609			
40	3332	4850	5249	5209	5157	5214	5240	4760	3217	2159	1992	2020	2051	2012	1985	2185			
45	2833	4615	4889	4757	4688	4764	4896	4526	2708	1820	1775	1864	1915	1853	1760	1833			
50	2316	4316	4397	4211	4131	4223	4418	4235	2194	1532	1581	1723	1785	1709	1560	1533			
55	1838	3944	3771	3603	3489	3616	3795	3878	1737	1272	1405	1567	1625	1556	1378	1263			
60	1440	3461	3070	2885	2678	2914	3086	3431	1359	1041	1230	1378	1413	1366	1203	1026			
65	1103	2798	2450	1870	1686	1919	2445	2840	1043	836	1042	1131	1143	1121	1017	816			
70	818	1852	1640	1065	923	1075	1771	1969	769	651	816	726	647	732	798	628			
75	569	946	660	511	366	538	719	985	526	477	485	361	333	362	490	454			
80	341	586	350	234	173	247	358	531	309	293	207	152	141	149	210	281			
85	121	282	163	101	80.3	106	167	254	110	93.7	64.9	61.5	60.2	60.5	62.6	90.1			
90	4.33	24.8	24.9	21.0	17.9	22.4	27.2	28.2	5.22	6.74	7.51	6.84	6.74	6.53	7.01	6.00			
95	5.01	3.43	3.24	3.36	3.39	3.39	3.30	3.66	5.05	6.84	7.47	6.76	6.29	6.88	7.55	7.05			
100	6.45	4.40	4.03	4.19	4.26	4.24	4.11	4.66	6.38	8.47	9.51	8.91	8.42	9.03	9.59	8.73			
105	8.05	5.52	4.89	5.08	5.20	5.15	5.01	5.84	7.87	10.2	11.6	11.2	10.8	11.4	11.7	10.5			
110	9.71	6.83	5.82	5.95	6.11	6.07	5.98	7.14	9.51	11.9	13.7	13.5	13.2	13.7	13.9	12.2			
115	11.3	8.28	6.85	6.82	6.98	6.96	7.04	8.56	11.2	13.6	15.6	15.7	15.5	16.0	15.9	13.9			
120	12.9	9.87	8.01	7.77	7.90	7.94	8.24	10.1	13.0	15.2	17.3	17.9	17.8	18.2	17.8	15.5			
125	14.8	11.6	9.37	8.91	8.96	9.11	9.67	11.8	14.8	16.9	19.1	19.9	19.9	20.3	19.6	17.2			
130	16.8	13.4	10.9	10.2	10.2	10.5	11.3	13.6	16.6	18.7	20.8	21.8	21.8	22.2	21.3	18.8			
135	18.5	15.2	12.7	11.7	11.8	12.2	13.1	15.3	18.4	20.4	22.4	23.6	23.6	23.8	22.8	20.4			
140	20.2	17.0	14.6	13.5	13.5	13.9	15.0	17.1	20.1	22.2	24.1	25.4	25.3	25.4	24.4	22.1			
145	21.6	18.7	16.5	15.3	15.2	15.8	16.7	18.6	21.7	23.7	25.6	26.8	27.0	26.8	25.8	23.6			
150	23.1	20.4	18.4	17.4	17.3	17.8	18.6	20.2	23.2	25.0	27.0	28.1	28.4	27.9	27.1	24.9			
155	24.4	22.0	20.4	19.4	19.4	19.8	20.5	21.8	24.5	26.1	28.0	29.0	29.4	28.8	28.1	26.0			
160	25.6	23.6	22.1	21.4	21.5	21.7	22.2	23.4	25.8	27.0	28.6	29.7	30.1	29.3	28.7	27.1			
165	26.8	25.1	23.9	23.3	23.6	23.7	24.1	25.1	26.9	27.8	29.2	30.1	30.5	29.8	29.3	28.1			
170	28.0	26.5	25.8	25.3	25.8	25.7	26.0	26.8	27.9	28.4	29.4	30.1	30.5	29.8	29.6	28.8			
175	28.6	27.7	27.3	27.1	27.6	27.3	27.6	28.1	28.6	28.7	29.4	29.9	30.4	29.9	29.7	29.3			
180	28.8	28.5	28.7	28.8	29.3	28.9	29.0	29.1	28.9	28.5	28.7	28.8	29.4	29.0	29.0	29.1			

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: