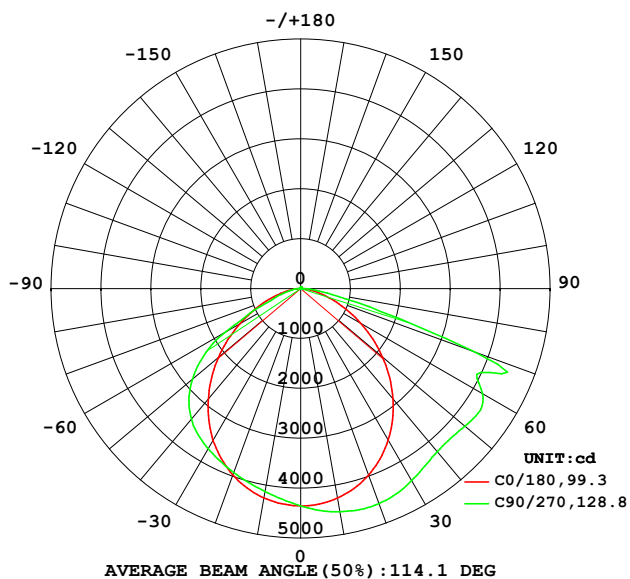
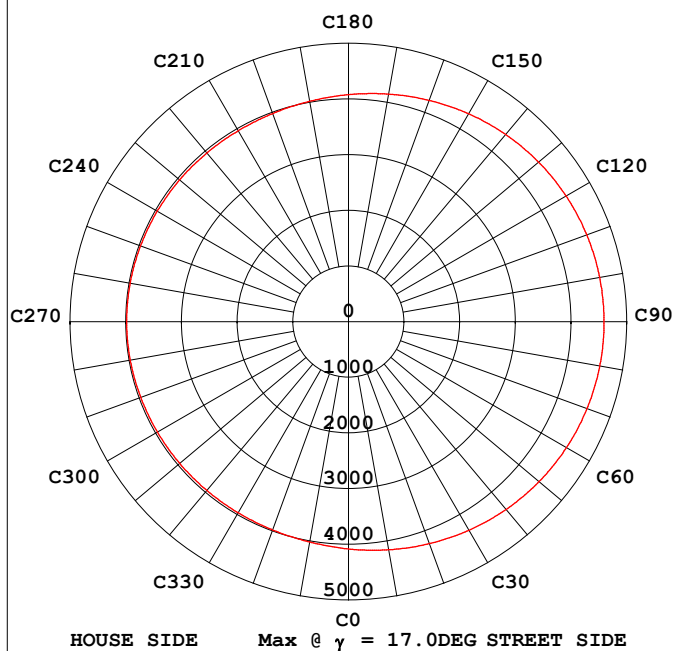


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.78V I:0.8224A P:98.257W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13863.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	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: 141.09 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	4591	η street_up (%)	0.3
NOMINAL POWER (W)	100	LOR (%)	100.0	η street_down (%)	58.5
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	13863	η house_up (%)	0.4
NOMINAL FLUX (lm)	13863.2	MAXIMUM @ (C, γ)	90,17.0	η house_down (%)	40.8
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

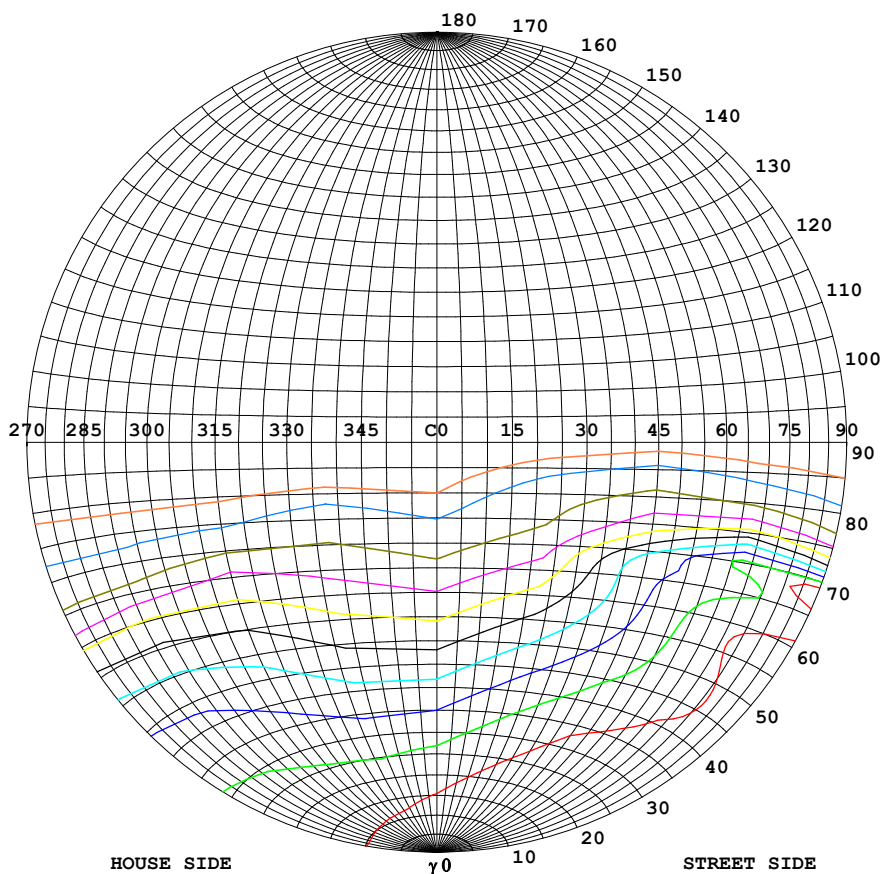
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°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:119.78V I:0.8224A P:98.257W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13863.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



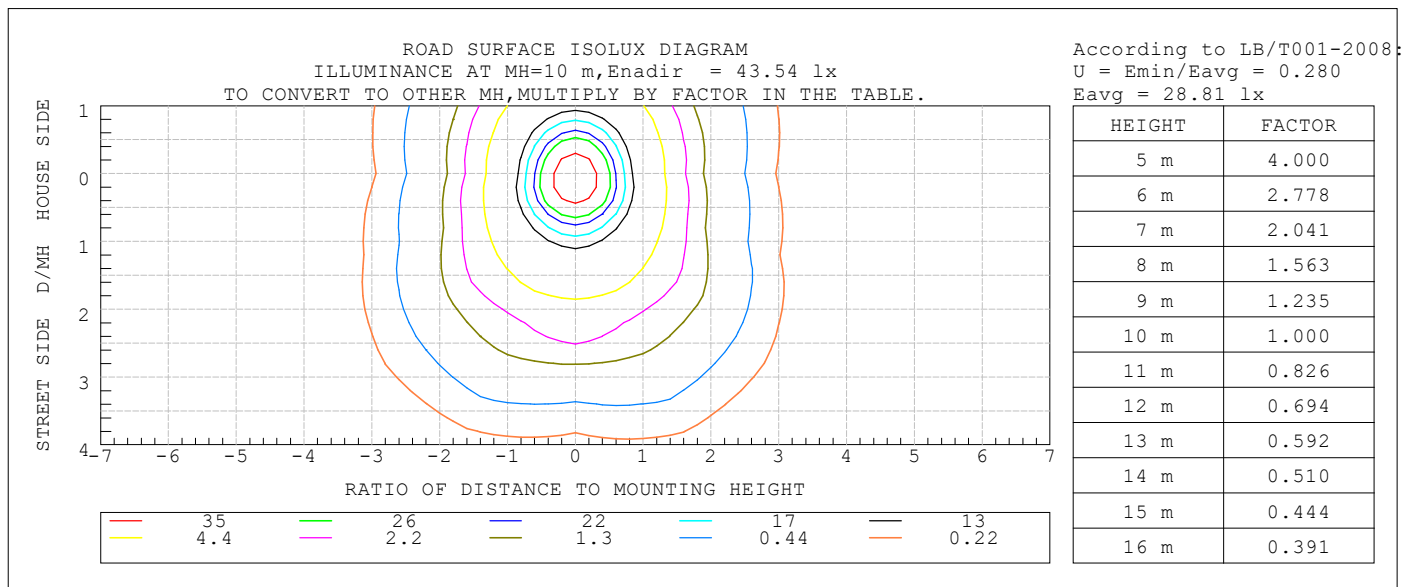
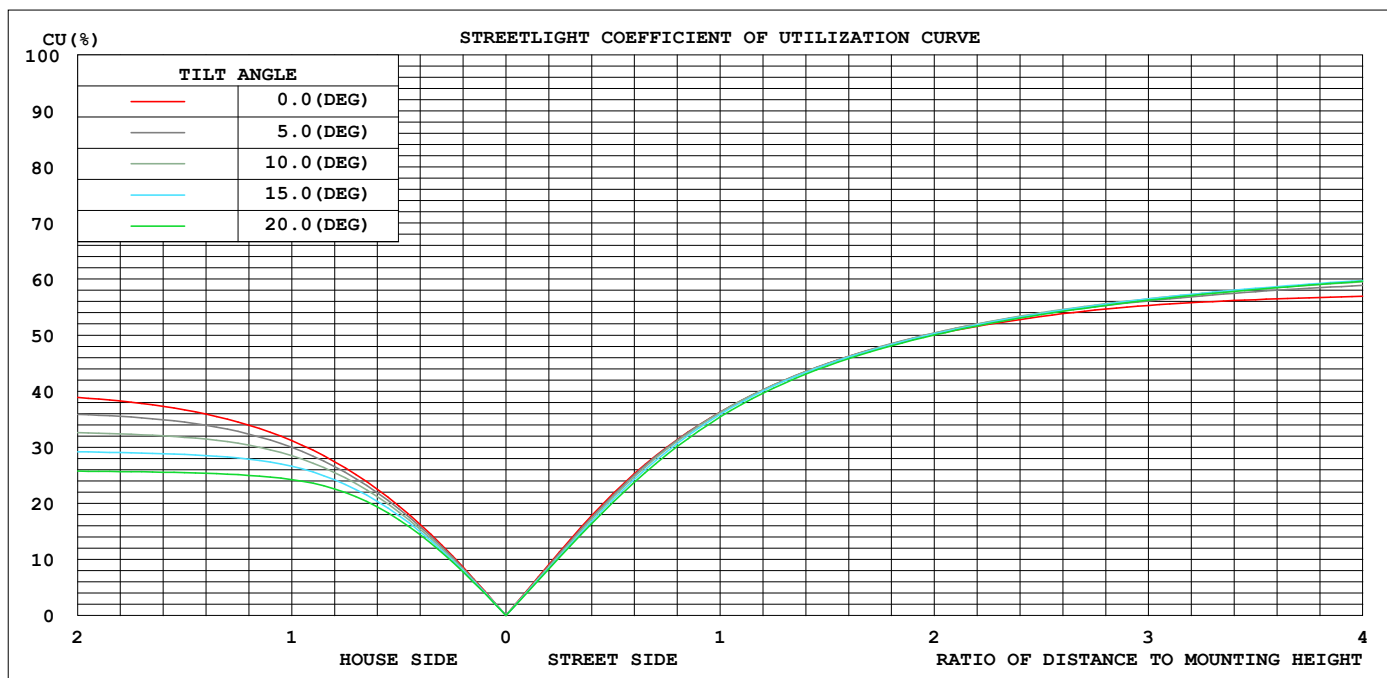
Classification:

IES:Type IV - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:76.07cd/klm
Max.At90:9.488cd/klm
Max.80-90:76.07cd/klm
NRB 5101:Limited[7.6%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4591
90%	4132
80%	3673
70%	3214
60%	2755
50%	2295
40%	1836
30%	1377
20%	918
10%	459
5%	230

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:119.78V I:0.8224A P:98.257W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13863.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:

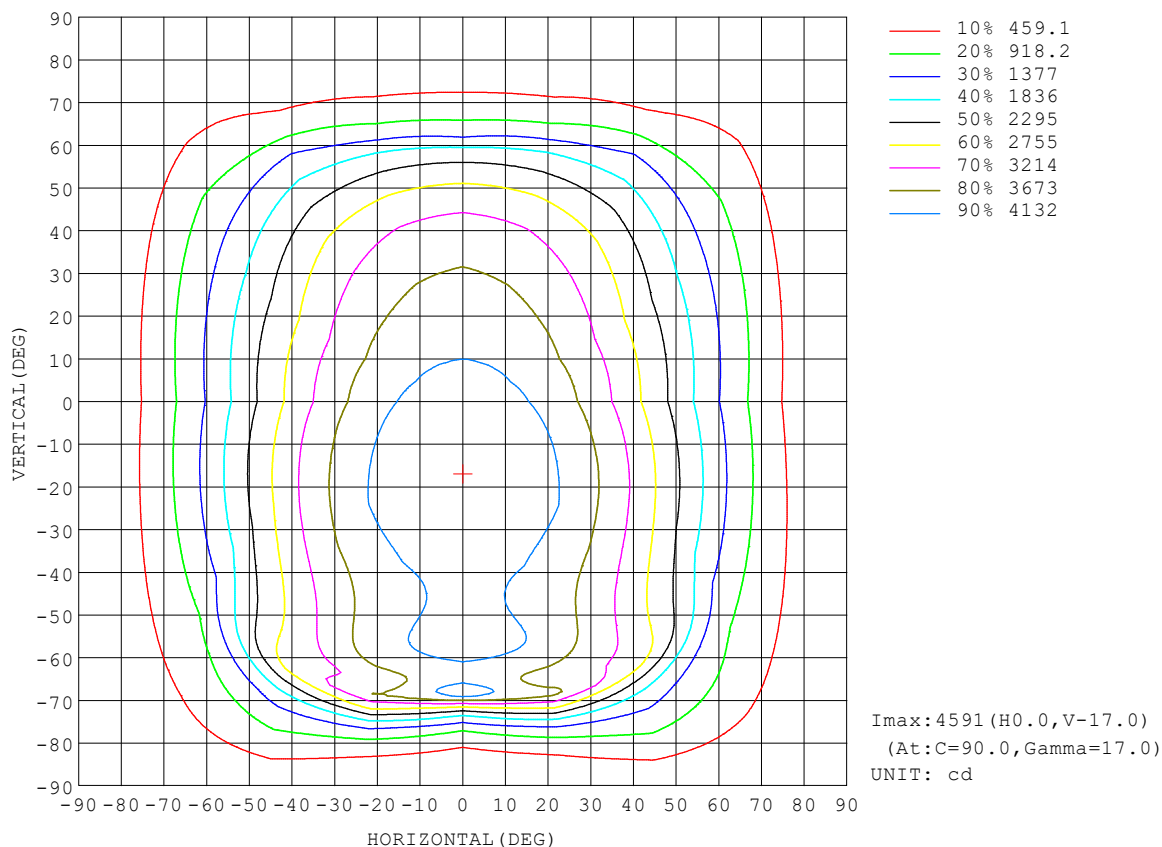
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4262	4455	4539	4447	4258	4147	4128	4148	0- 10	412.9	412.9	2.98,2.98
20	3978	4409	4585	4395	3975	3873	3923	3870	10- 20	1194	1607	11.6,11.6
30	3507	4212	4447	4193	3516	3541	3708	3526	20- 30	1842	3448	24.9,24.9
40	2878	3860	4263	3836	2880	3148	3410	3121	30- 40	2280	5728	41.3,41.3
50	2146	3419	4293	3370	2156	2640	2835	2608	40- 50	2465	8193	59.1,59.1
60	1388	3118	4210	3011	1401	1925	1726	1902	50- 60	2382	10575	76.3,76.3
70	719.0	2640	3698	2728	740.1	838.6	564.1	858.1	60- 70	1946	12521	90.3,90.3
80	225.0	1055	547.2	982.1	248.8	193.1	194.8	193.7	70- 80	1006	13527	97.6,97.6
90	3.924	121.3	44.61	131.5	5.227	9.855	12.47	9.208	80- 90	244.1	13771	99.3,99.3
100	5.730	5.644	5.537	5.664	5.852	9.890	12.62	10.09	90-100	10.50	13781	99.4,99.4
110	8.595	8.333	8.646	8.413	8.783	12.81	15.75	13.00	100-110	9.608	13791	99.5,99.5
120	11.69	10.98	11.67	11.11	11.96	15.98	18.69	15.81	110-120	11.89	13803	99.6,99.6
130	14.84	13.78	14.26	13.94	15.04	19.38	21.26	18.79	120-130	13.38	13816	99.7,99.7
140	17.87	16.73	16.93	17.13	17.97	22.10	24.20	21.78	130-140	13.83	13830	99.8,99.8
150	20.64	19.93	20.01	20.36	20.87	23.81	25.86	23.68	140-150	12.92	13843	99.9,99.9
160	23.44	22.86	23.21	23.13	23.41	24.87	26.16	24.89	150-160	10.59	13854	99.9,99.9
170	25.83	25.33	25.76	25.48	25.61	26.06	26.76	26.16	160-170	7.029	13861	100,100
180	26.66	26.66	27.09	26.79	26.67	26.68	27.17	26.81	170-180	2.506	13863	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

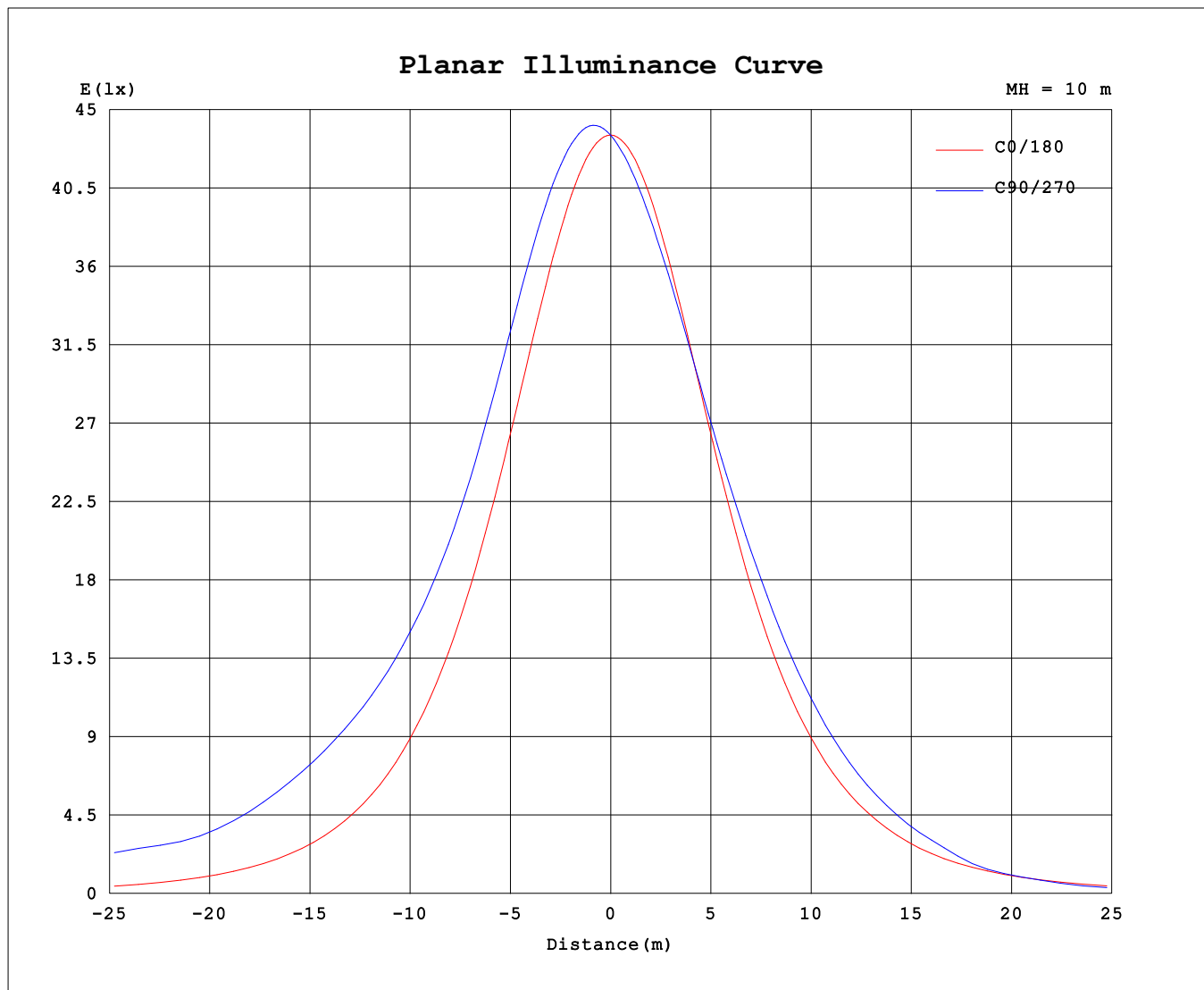
Test:U:119.78V I:0.8224A P:98.257W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13863.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



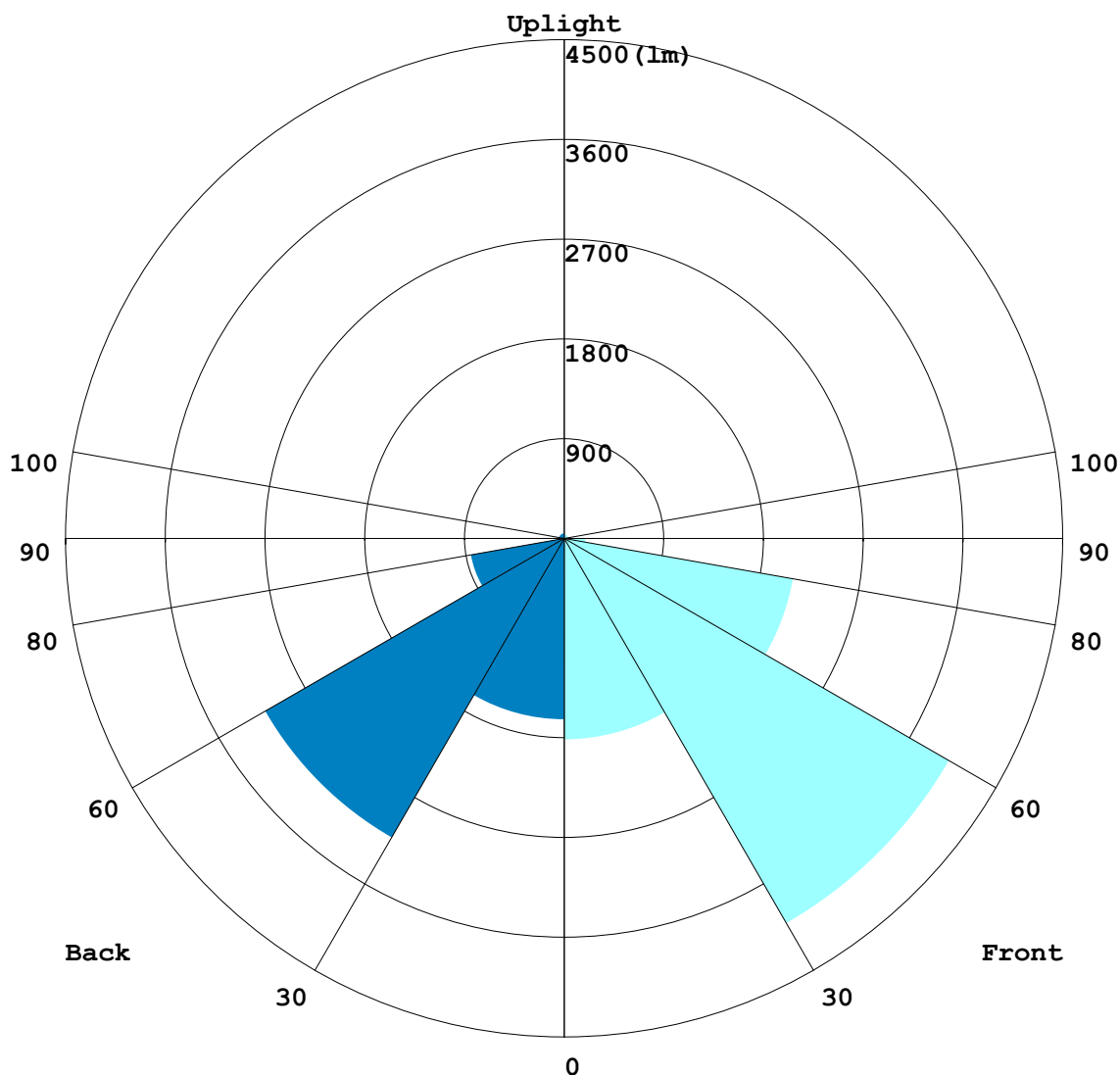
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:119.78V I:0.8224A P:98.257W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13863.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	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:119.78V I:0.8224A P:98.257W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13863.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	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)	1815.3	13.1
FM - Front-Medium(30-60)	4010.6	28.9
FH - Front-High(60-80)	2096.5	15.1
FVH - Front-Very High(80-90)	191.88	1.4
Total Forward Light	8156	58.8

BL - Back-Low(0-30)	1633.1	11.8
BM - Back-Medium(30-60)	3115.9	22.5
BH - Back-High(60-80)	855.33	6.2
BVH - Back-Very High(80-90)	52.198	0.4
Total Back Light	5707.2	41.2

UL - Uplight-Low(90-100)	10.5	0.1
UH - Uplight-High(100-180)	81.77	0.6
Total Up Light	92.27	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5656.6	50.634	5707.2
Street Side	8114.3	41.636	8156

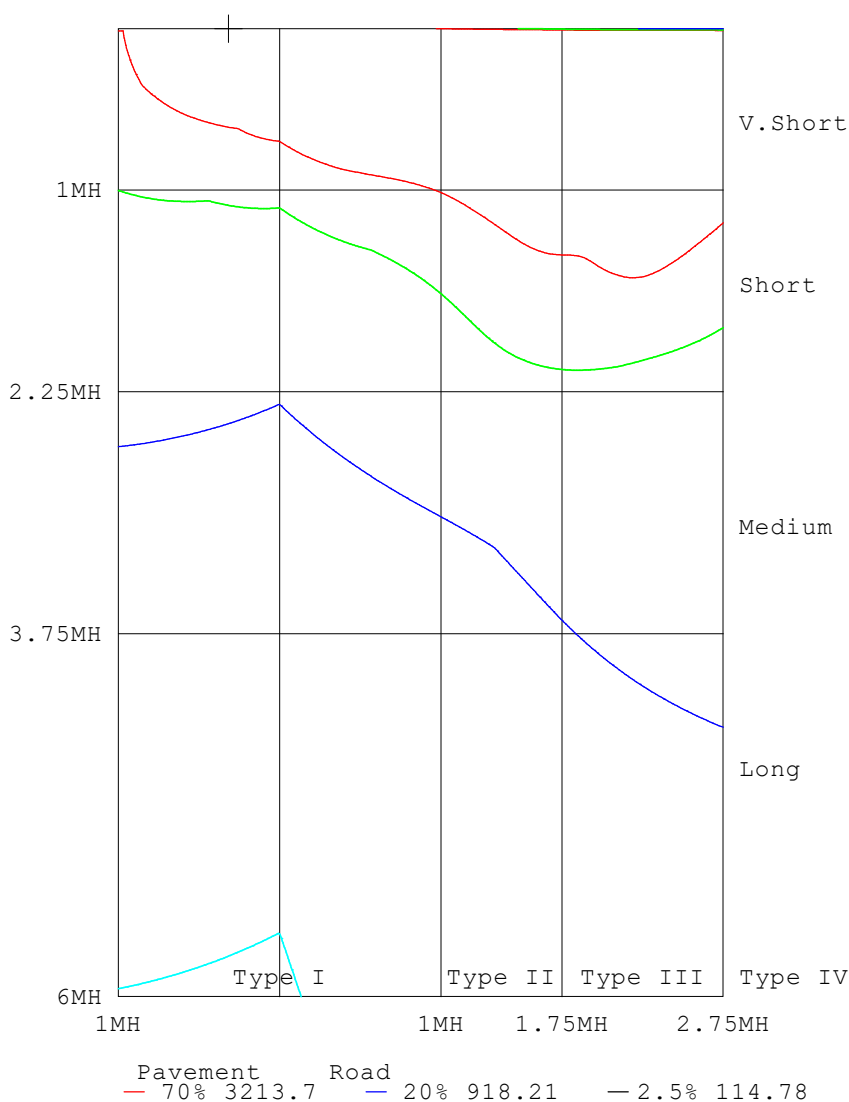
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:119.78V I:0.8224A P:98.257W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13863.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	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°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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.78V I:0.8224A P:98.257W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13863.2x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	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	4354	4351	4355	4351	4353	4351	4355	4351	4354	4351	4355	4351	4353	4351	4355	4351			
5	4332	4379	4421	4449	4461	4447	4418	4373	4330	4285	4261	4241	4240	4240	4262	4289			
10	4262	4360	4455	4517	4539	4514	4447	4353	4258	4183	4147	4127	4128	4128	4148	4186			
15	4144	4301	4451	4551	4586	4546	4440	4288	4140	4041	4015	4017	4026	4015	4015	4043			
20	3978	4199	4409	4545	4585	4538	4395	4182	3975	3866	3873	3904	3923	3899	3870	3865			
25	3764	4055	4329	4493	4538	4485	4313	4034	3763	3661	3713	3783	3816	3775	3704	3657			
30	3507	3873	4212	4397	4447	4389	4193	3844	3516	3430	3541	3657	3708	3647	3526	3418			
35	3210	3656	4054	4269	4340	4258	4032	3619	3212	3168	3350	3517	3583	3505	3328	3152			
40	2878	3395	3860	4147	4263	4127	3836	3347	2880	2886	3148	3343	3410	3329	3121	2861			
45	2521	3093	3637	4064	4249	4033	3606	3039	2527	2586	2917	3108	3168	3093	2885	2555			
50	2146	2753	3419	4041	4293	4001	3370	2691	2156	2278	2640	2795	2835	2784	2608	2239			
55	1764	2379	3230	4072	4347	4025	3158	2308	1777	1960	2310	2390	2394	2383	2281	1917			
60	1388	1978	3118	4029	4210	4003	3011	1902	1401	1631	1925	1877	1726	1876	1902	1589			
65	1033	1568	3129	3533	3976	3529	3004	1482	1051	1303	1483	1094	1027	1099	1470	1263			
70	719	1178	2640	3799	3698	3685	2728	1080	740	979	839	580	564	582	858	945			
75	447	873	1603	2031	1434	2138	1590	744	471	659	408	345	341	345	412	639			
80	225	670	1055	850	547	915	982	533	249	295	193	190	195	188	194	302			
85	67.5	353	532	335	225	362	508	296	86.1	85.7	82.6	96.3	100	94.4	78.1	81.7			
90	3.92	33.7	121	61.0	44.6	67.6	132	38.1	5.23	6.79	9.86	11.7	12.5	11.0	9.21	5.94			
95	4.48	4.15	4.42	4.28	4.21	4.33	4.45	4.24	4.61	6.12	8.40	10.4	11.0	10.5	8.64	6.44			
100	5.73	5.28	5.64	5.60	5.54	5.60	5.66	5.37	5.85	7.46	9.89	12.0	12.6	12.1	10.1	7.78			
105	7.12	6.56	6.97	7.07	7.05	7.06	7.02	6.67	7.26	8.93	11.4	13.6	14.5	13.7	11.6	9.22			
110	8.59	7.88	8.33	8.58	8.65	8.59	8.41	8.03	8.78	10.5	12.8	14.9	15.7	15.1	13.0	10.7			
115	10.1	9.28	9.67	10.0	10.2	10.1	9.79	9.43	10.4	12.2	14.4	16.2	17.0	16.5	14.5	12.2			
120	11.7	10.8	11.0	11.4	11.7	11.5	11.1	10.9	12.0	13.8	16.0	17.9	18.7	18.0	15.8	13.7			
125	13.3	12.3	12.4	12.7	13.0	12.8	12.5	12.5	13.5	15.5	17.7	19.4	19.8	19.1	17.2	15.2			
130	14.8	13.8	13.8	14.0	14.3	14.2	13.9	14.1	15.0	17.0	19.4	21.1	21.3	20.5	18.8	16.8			
135	16.4	15.5	15.2	15.3	15.5	15.5	15.5	15.7	16.5	18.4	20.8	22.6	22.7	22.0	20.3	18.3			
140	17.9	17.0	16.7	16.7	16.9	17.0	17.1	17.3	18.0	19.7	22.1	24.1	24.2	23.4	21.8	19.8			
145	19.2	18.5	18.2	18.1	18.3	18.5	18.7	18.8	19.4	20.7	23.0	25.0	25.3	24.4	22.9	21.0			
150	20.6	20.2	19.9	19.8	20.0	20.2	20.4	20.4	20.9	21.8	23.8	25.4	25.9	24.8	23.7	22.2			
155	22.1	21.7	21.5	21.4	21.7	21.8	21.9	21.8	22.2	22.7	24.4	25.6	26.0	25.1	24.3	23.2			
160	23.4	23.0	22.9	22.8	23.2	23.2	23.1	23.1	23.4	23.7	24.9	25.8	26.2	25.3	24.9	24.2			
165	24.7	24.2	24.1	24.1	24.5	24.4	24.4	24.4	24.6	24.6	25.5	26.1	26.4	25.7	25.6	25.2			
170	25.8	25.4	25.3	25.3	25.8	25.5	25.5	25.6	25.6	25.4	26.1	26.5	26.8	26.1	26.2	26.0			
175	26.4	26.1	26.1	26.2	26.5	26.2	26.2	26.3	26.5	26.2	26.7	26.8	27.2	26.7	26.8	26.7			
180	26.7	26.4	26.7	26.8	27.1	26.7	26.8	26.8	26.7	26.4	26.7	26.8	27.2	26.8	26.8	26.9			

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: