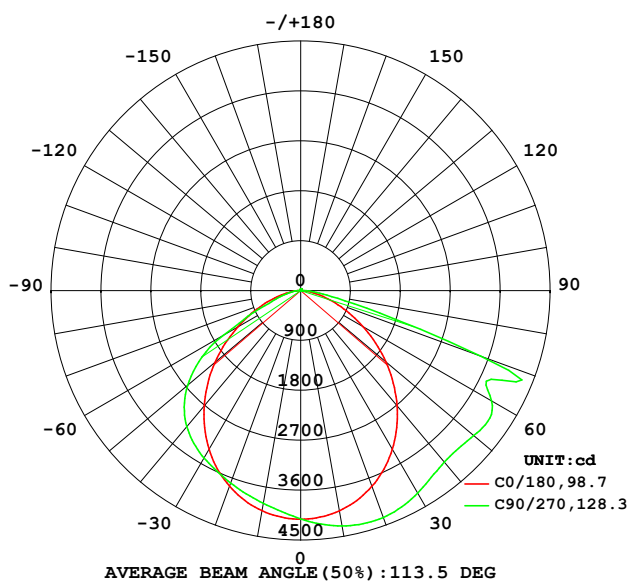
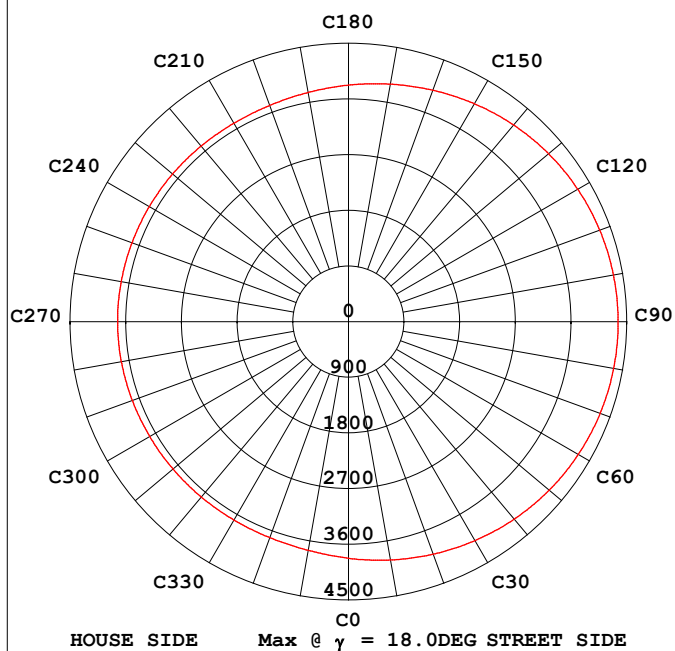


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.77V I:0.8244A P:98.496W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13053.9x1 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: 132.53 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	4359	η street_up (%)	0.3
NOMINAL POWER (W)	100	LOR (%)	100.0	η street_down (%)	58.7
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	13054	η house_up (%)	0.4
NOMINAL FLUX (lm)	13053.9	MAXIMUM @ (C, γ)	90, 18.0	η house_down (%)	40.6
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

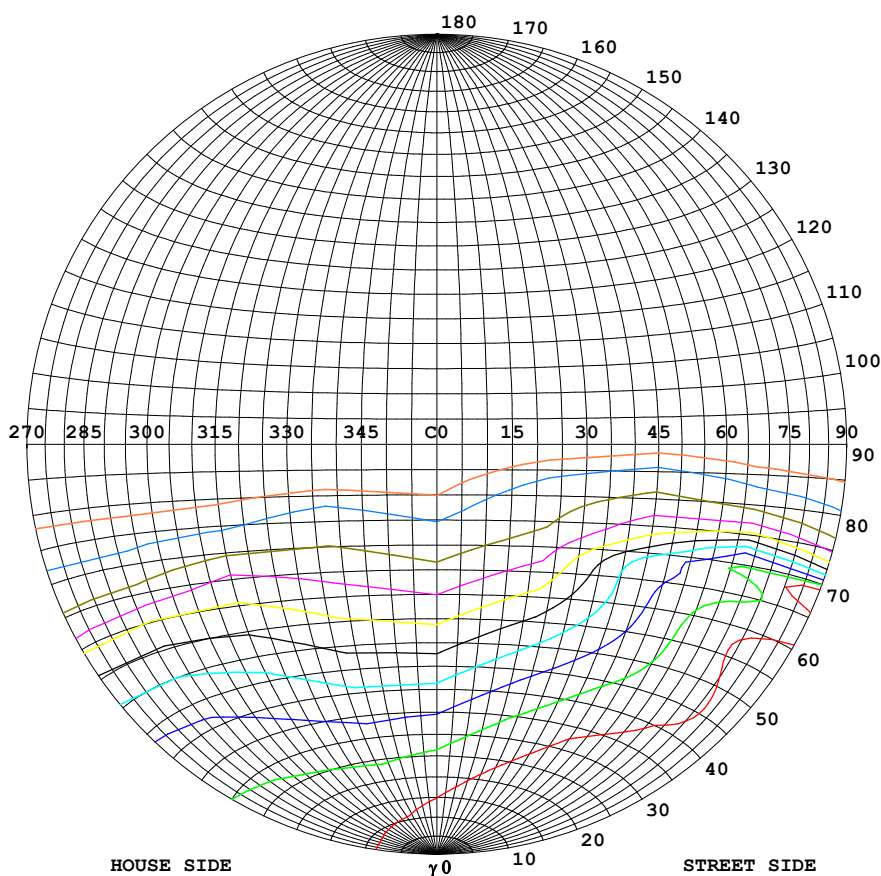
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:0.8244A P:98.496W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13053.9x1 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:



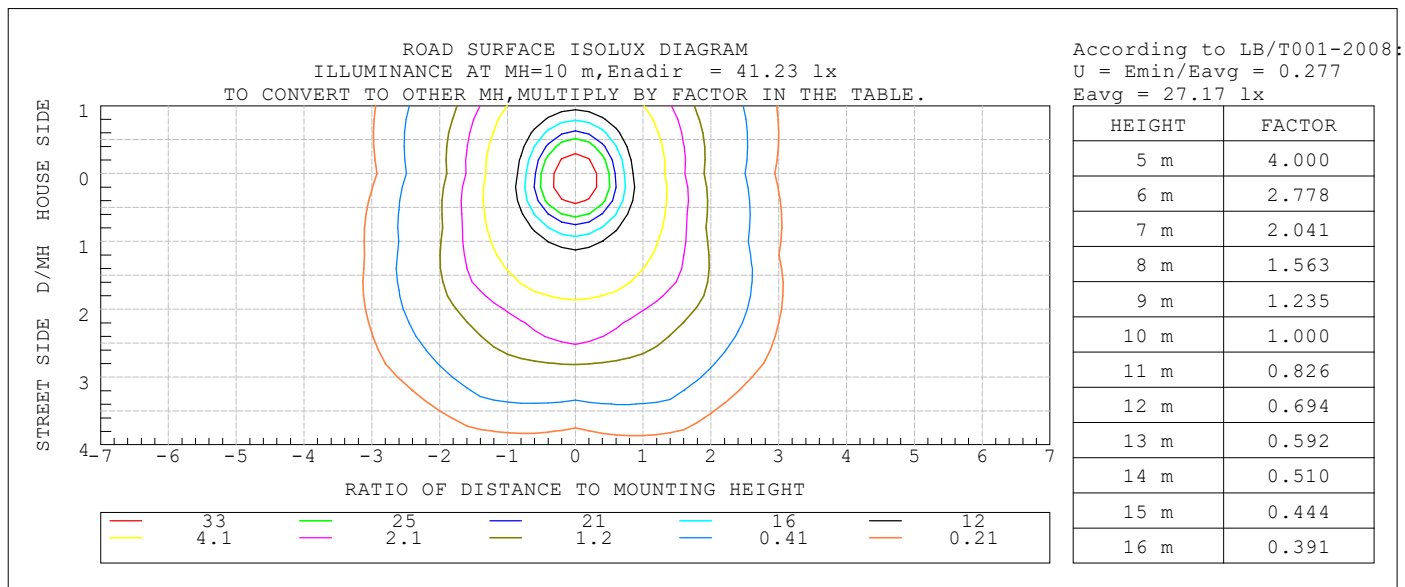
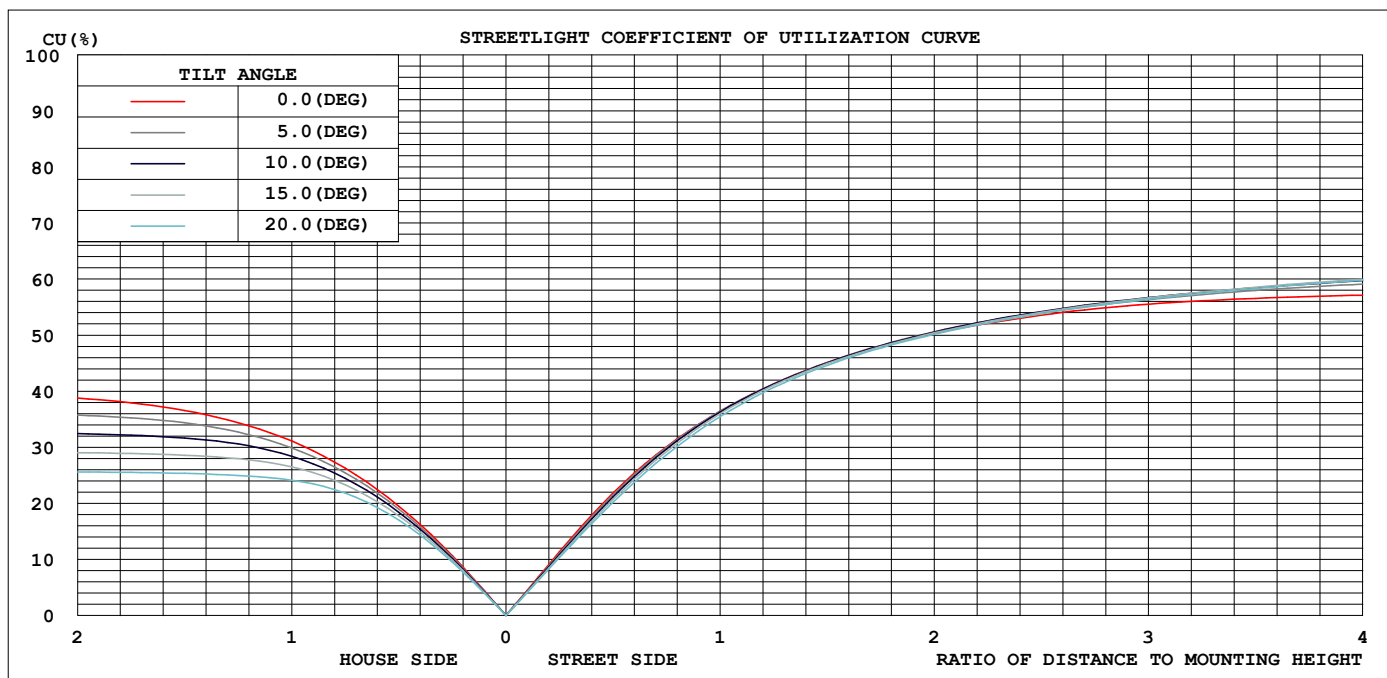
Classification:

IES:Type IV - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:76.58cd/klm
Max.At90:9.535cd/klm
Max.80-90:76.58cd/klm
NRB 5101:Limited[7.7%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4359
90%	3924
80%	3488
70%	3052
60%	2616
50%	2180
40%	1744
30%	1308
20%	872
10%	436
5%	218

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:119.77V I:0.8244A P:98.496W PF:0.9975 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:13053.9x1 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:		

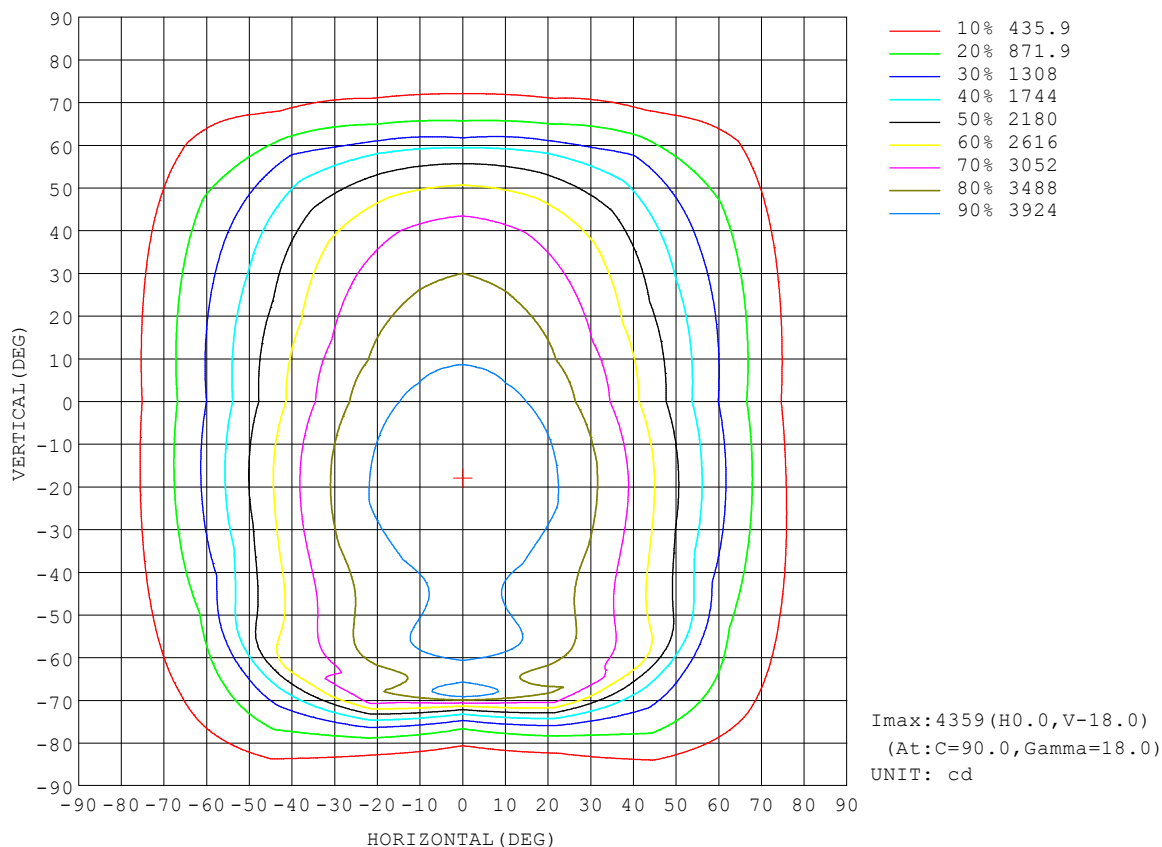
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4032	4226	4307	4217	4030	3915	3894	3912	0- 10	390.5	390.5	2.99,2.99
20	3757	4183	4354	4169	3755	3654	3694	3646	10- 20	1129	1520	11.6,11.6
30	3306	3993	4218	3973	3303	3326	3487	3307	20- 30	1740	3260	25,25
40	2704	3652	4036	3630	2706	2952	3198	2921	30- 40	2149	5409	41.4,41.4
50	2012	3229	4074	3185	2020	2470	2660	2439	40- 50	2321	7729	59.2,59.2
60	1298	2950	3973	2852	1310	1803	1618	1785	50- 60	2243	9972	76.4,76.4
70	672.5	2452	3461	2552	691.1	784.7	519.2	802.1	60- 70	1833	11805	90.4,90.4
80	211.8	999.7	483.8	930.6	233.2	180.3	178.7	180.7	70- 80	935.6	12741	97.6,97.6
90	3.657	98.78	40.75	124.5	4.871	9.163	11.78	8.635	80- 90	226.6	12967	99.3,99.3
100	5.390	5.292	5.198	5.288	5.492	9.298	11.89	9.552	90-100	9.557	12977	99.4,99.4
110	8.093	7.816	8.103	7.875	8.243	12.04	14.86	12.29	100-110	9.036	12986	99.5,99.5
120	11.02	10.33	10.95	10.42	11.24	15.02	17.63	14.98	110-120	11.19	12997	99.6,99.6
130	14.00	12.96	13.40	13.10	14.16	18.21	20.06	17.73	120-130	12.60	13010	99.7,99.7
140	16.88	15.73	15.92	16.14	16.94	20.79	22.84	20.60	130-140	13.03	13023	99.8,99.8
150	19.52	18.79	18.87	19.20	19.65	22.41	24.44	22.42	140-150	12.19	13035	99.9,99.9
160	22.16	21.51	21.89	21.88	22.06	23.41	24.69	23.55	150-160	9.996	13045	99.9,99.9
170	24.40	23.86	24.27	24.08	24.17	24.57	25.27	24.73	160-170	6.633	13051	100,100
180	25.18	25.12	25.58	25.33	25.19	25.15	25.61	25.34	170-180	2.365	13054	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

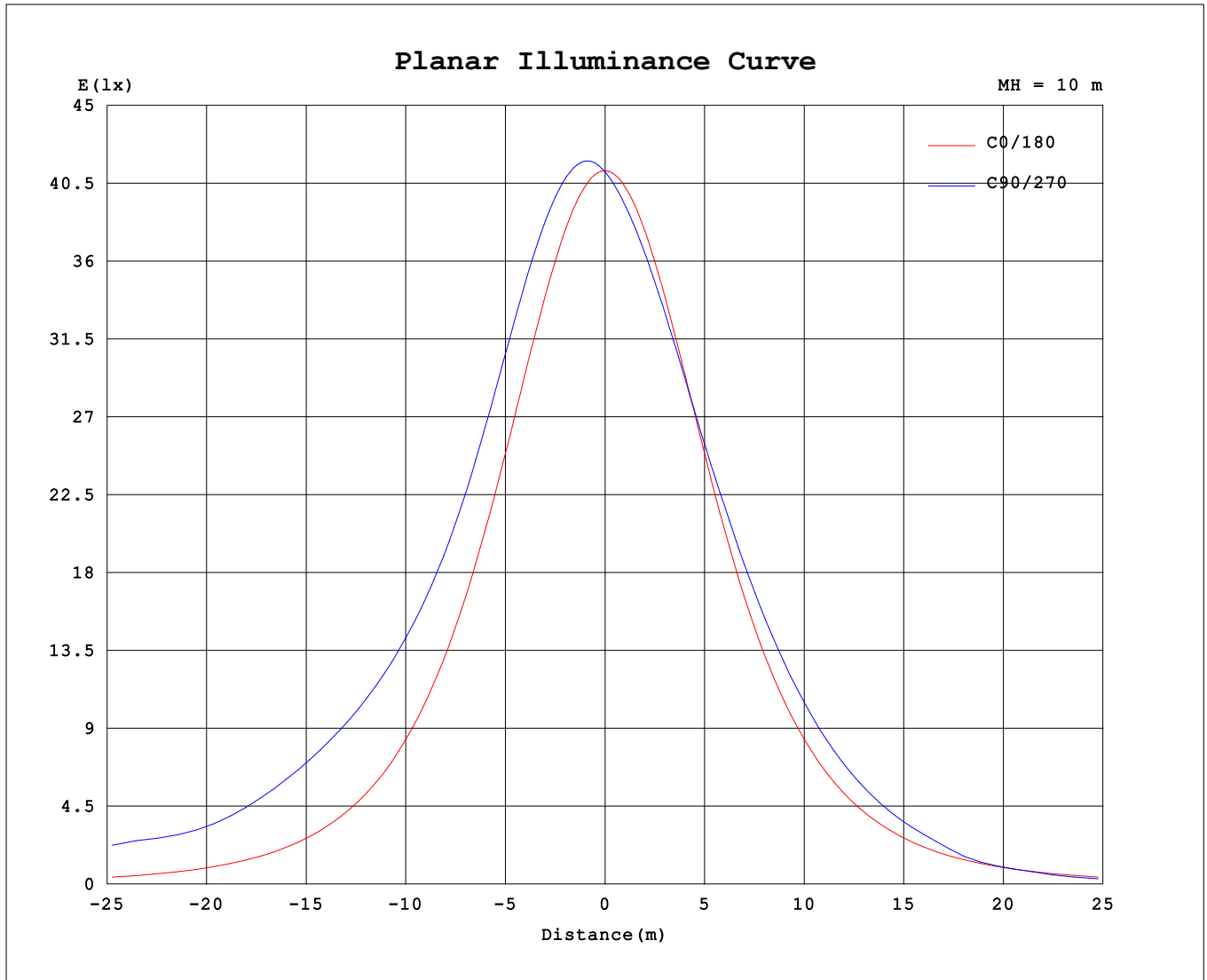
Test:U:119.77V I:0.8244A P:98.496W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13053.9x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 3000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3°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



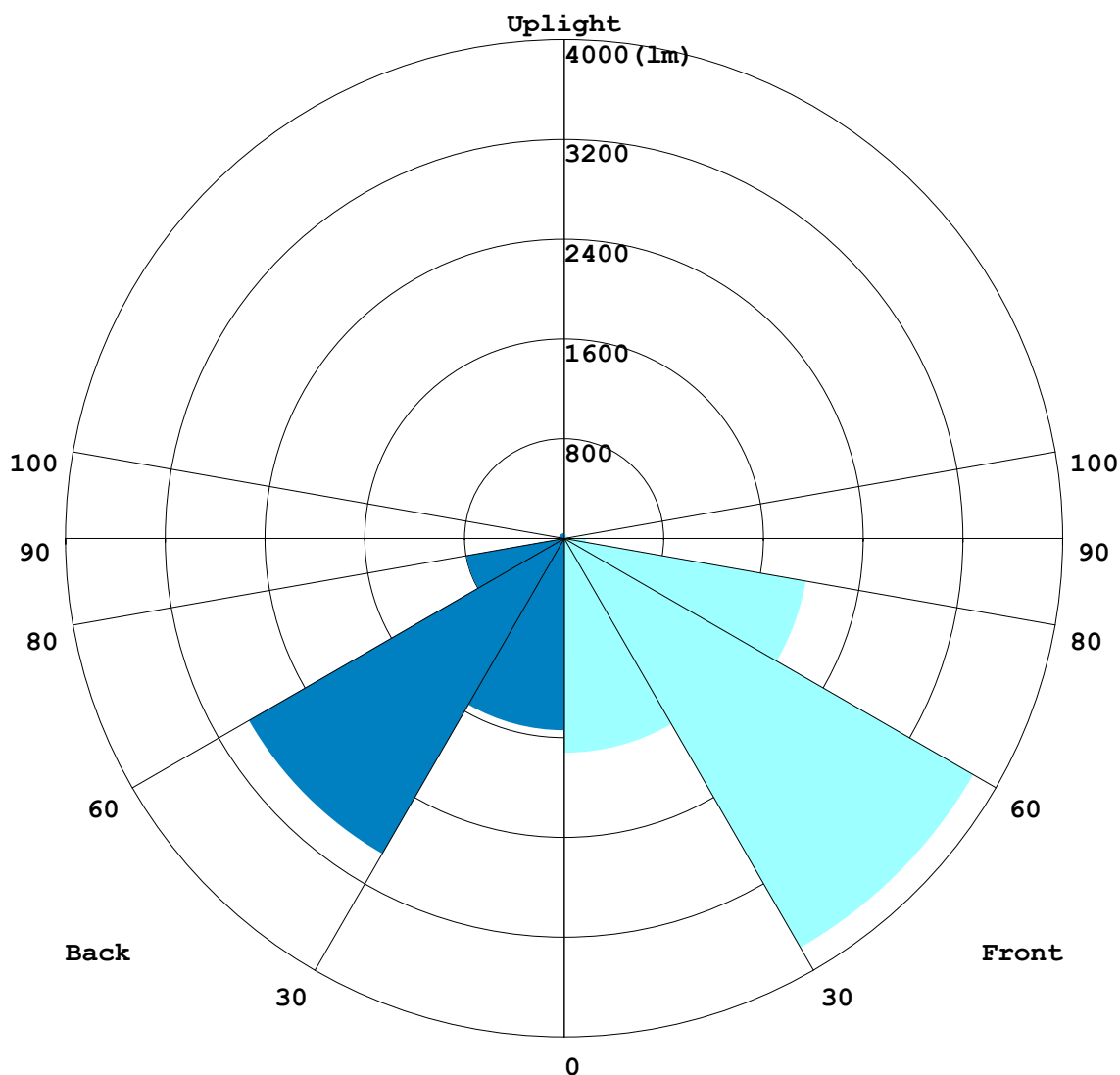
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:0.8244A P:98.496W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13053.9x1 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:119.77V I:0.8244A P:98.496W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13053.9x1 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)	1720.6	13.2
FM - Front-Medium(30-60)	3792.4	29.1
FH - Front-High(60-80)	1970.1	15.1
FVH - Front-Very High(80-90)	178.05	1.4
Total Forward Light	7700.1	59.0

BL - Back-Low(0-30)	1539	11.8
BM - Back-Medium(30-60)	2920.3	22.4
BH - Back-High(60-80)	798.25	6.1
BVH - Back-Very High(80-90)	48.501	0.4
Total Back Light	5353.8	41.0

UL - Uplight-Low(90-100)	9.5565	0.1
UH - Uplight-High(100-180)	77.051	0.6
Total Up Light	86.607	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5306.1	47.725	5353.8
Street Side	7661.2	38.882	7700.1

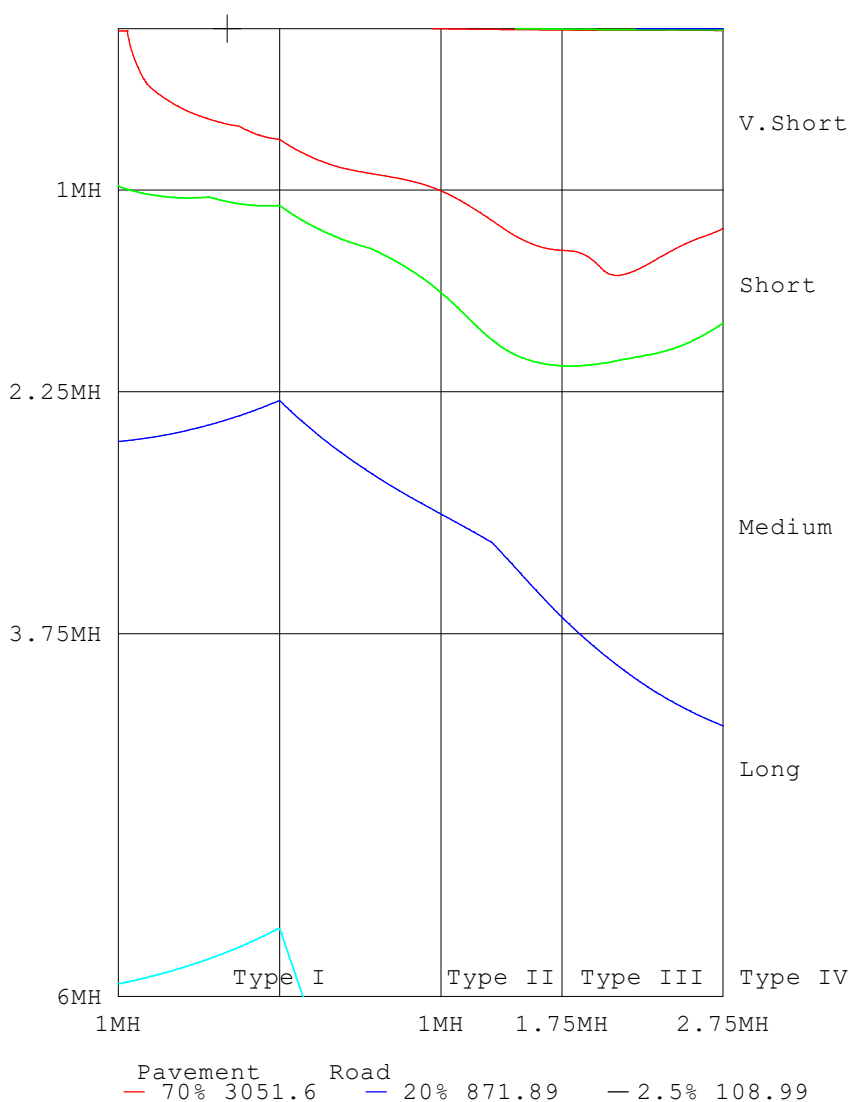
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:0.8244A P:98.496W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13053.9x1 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:119.77V I:0.8244A P:98.496W PF:0.9975 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:13053.9x1 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	4123	4120	4119	4115	4117	4113	4116	4113	4123	4120	4119	4115	4117	4113	4116	4113			
5	4100	4147	4190	4217	4228	4211	4183	4138	4099	4053	4024	4003	4000	4002	4022	4048			
10	4032	4133	4226	4287	4307	4281	4217	4119	4030	3950	3915	3895	3894	3893	3912	3947			
15	3918	4076	4223	4320	4353	4314	4212	4061	3916	3813	3790	3790	3795	3785	3783	3808			
20	3757	3980	4183	4315	4354	4308	4169	3959	3755	3645	3654	3677	3694	3672	3646	3640			
25	3552	3843	4106	4263	4307	4258	4089	3817	3554	3449	3501	3557	3589	3549	3490	3441			
30	3306	3668	3993	4170	4218	4164	3973	3637	3303	3226	3326	3436	3487	3425	3307	3213			
35	3020	3458	3840	4045	4111	4035	3819	3418	3020	2976	3145	3302	3362	3289	3122	2957			
40	2704	3207	3652	3925	4036	3906	3630	3161	2706	2704	2952	3134	3198	3121	2921	2680			
45	2365	2921	3441	3848	4027	3819	3409	2867	2371	2421	2731	2914	2972	2902	2700	2390			
50	2012	2597	3229	3831	4074	3793	3185	2536	2020	2130	2470	2621	2660	2610	2439	2091			
55	1653	2244	3051	3859	4119	3822	2984	2174	1663	1832	2163	2239	2242	2234	2135	1789			
60	1298	1866	2950	3806	3973	3788	2852	1790	1310	1525	1803	1757	1618	1759	1785	1477			
65	967	1479	2963	3324	3793	3313	2850	1393	981	1218	1387	1021	961	1023	1380	1178			
70	673	1110	2452	3426	3461	3340	2552	1016	691	917	785	535	519	539	802	883			
75	418	823	1527	1869	1240	1989	1513	700	440	621	382	318	310	319	386	599			
80	212	633	1000	758	484	822	931	502	233	278	180	175	179	173	181	284			
85	63.7	338	505	298	203	322	482	279	80.5	79.8	76.5	88.7	91.4	86.9	72.5	76.8			
90	3.66	33.1	98.8	54.9	40.7	60.7	124	36.2	4.87	6.34	9.16	11.0	11.8	10.3	8.63	5.60			
95	4.23	3.92	4.16	4.02	3.95	4.07	4.17	3.97	4.34	5.77	7.88	9.74	10.4	9.87	8.20	6.07			
100	5.39	4.98	5.29	5.26	5.20	5.26	5.29	5.02	5.49	7.03	9.30	11.3	11.9	11.4	9.55	7.34			
105	6.70	6.17	6.54	6.63	6.61	6.61	6.56	6.25	6.82	8.43	10.7	12.7	13.6	12.9	11.0	8.69			
110	8.09	7.42	7.82	8.07	8.10	8.05	7.88	7.53	8.24	9.95	12.0	14.0	14.9	14.2	12.3	10.1			
115	9.54	8.74	9.09	9.43	9.59	9.47	9.17	8.87	9.73	11.5	13.5	15.2	16.0	15.5	13.7	11.5			
120	11.0	10.1	10.3	10.7	10.9	10.8	10.4	10.3	11.2	13.1	15.0	16.8	17.6	17.0	15.0	12.9			
125	12.5	11.6	11.6	12.0	12.2	12.1	11.7	11.7	12.7	14.6	16.6	18.3	18.7	18.0	16.3	14.4			
130	14.0	13.1	13.0	13.2	13.4	13.3	13.1	13.3	14.2	16.0	18.2	19.9	20.1	19.3	17.7	15.9			
135	15.5	14.6	14.3	14.4	14.6	14.6	14.6	14.8	15.5	17.3	19.6	21.3	21.4	20.7	19.2	17.3			
140	16.9	16.1	15.7	15.7	15.9	16.0	16.1	16.4	16.9	18.5	20.8	22.7	22.8	22.0	20.6	18.7			
145	18.1	17.5	17.1	17.0	17.2	17.4	17.6	17.8	18.3	19.6	21.7	23.6	23.9	23.0	21.6	19.9			
150	19.5	19.0	18.8	18.6	18.9	19.1	19.2	19.3	19.6	20.6	22.4	23.9	24.4	23.5	22.4	21.0			
155	20.9	20.5	20.3	20.2	20.5	20.6	20.6	20.6	20.9	21.4	22.9	24.1	24.5	23.7	23.0	21.9			
160	22.2	21.7	21.5	21.5	21.9	21.9	21.9	21.9	22.1	22.3	23.4	24.3	24.7	23.9	23.5	22.9			
165	23.3	22.9	22.7	22.8	23.1	23.0	23.0	23.1	23.2	23.2	24.0	24.7	25.0	24.3	24.2	23.8			
170	24.4	23.9	23.9	23.9	24.3	24.1	24.1	24.2	24.2	24.0	24.6	25.0	25.3	24.6	24.7	24.6			
175	25.0	24.6	24.6	24.7	25.1	24.8	24.8	24.9	25.0	24.7	25.1	25.3	25.7	25.3	25.3	25.2			
180	25.2	24.9	25.1	25.3	25.6	25.2	25.3	25.4	25.2	24.9	25.2	25.3	25.6	25.1	25.3	25.4			

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: