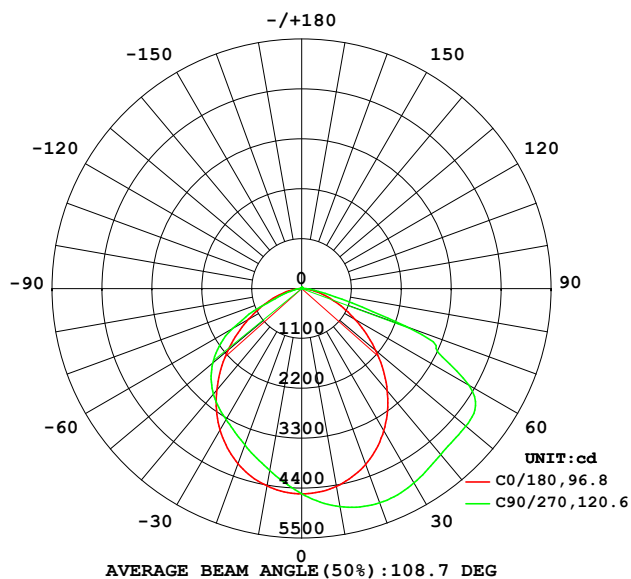
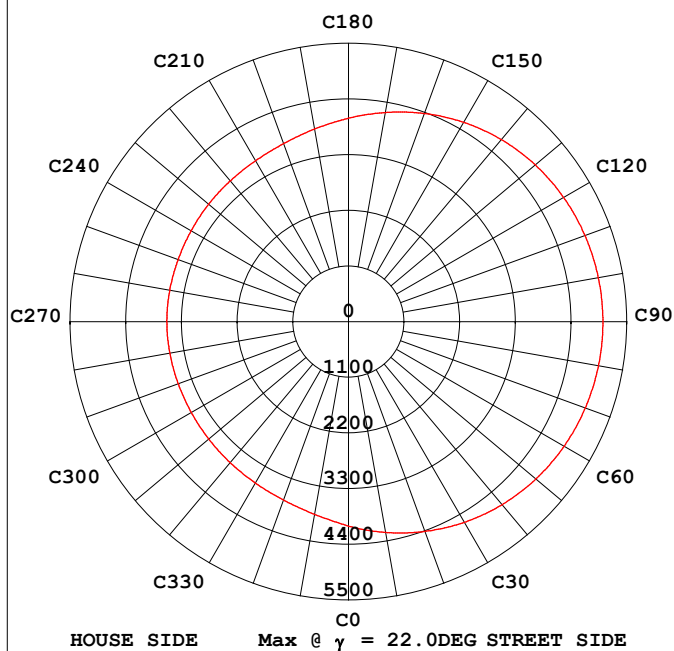


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.78V I:0.8223A P:98.243W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13989.8x1 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: 142.40 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax(cd)	5027	η street_up(%)	0.3
NOMINAL POWER(W)	100	LOR(%)	100.0	η street_down(%)	61.4
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	13990	η house_up(%)	0.4
NOMINAL FLUX(lm)	13989.8	MAXIMUM @ (C, γ)	90,22.0	η house_down(%)	37.9
LAMPS INSIDE	1	η up(%)	0.7	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	120	η down(%)	99.3	SLI	

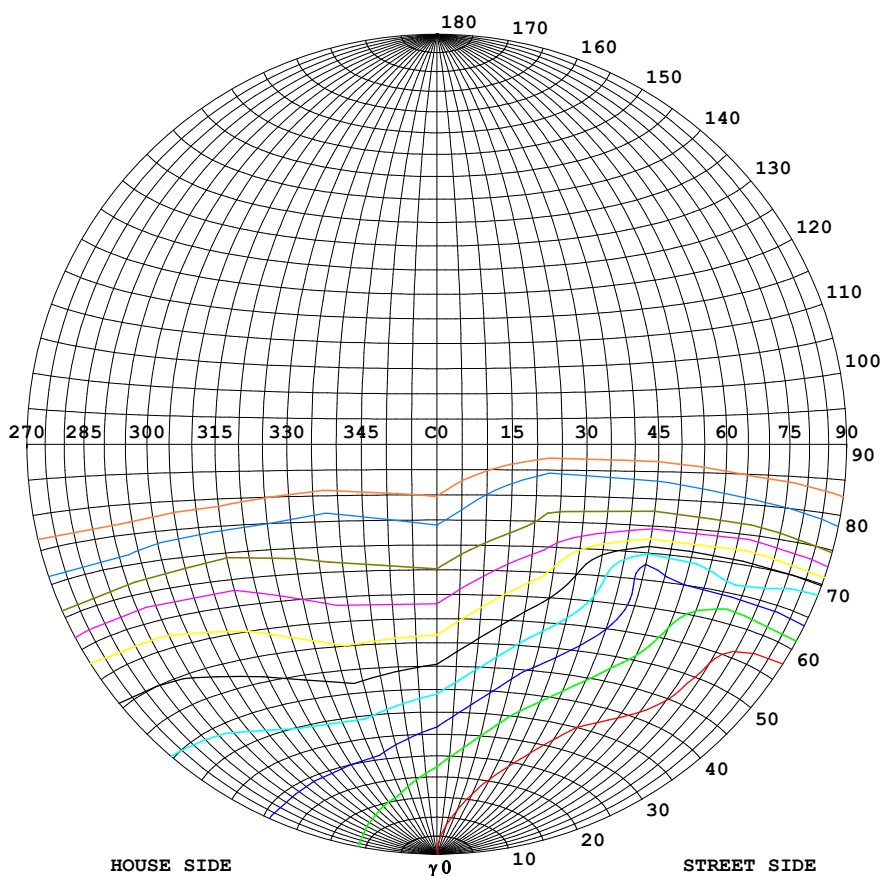
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
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:0.8223A P:98.243W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13989.8x1 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:



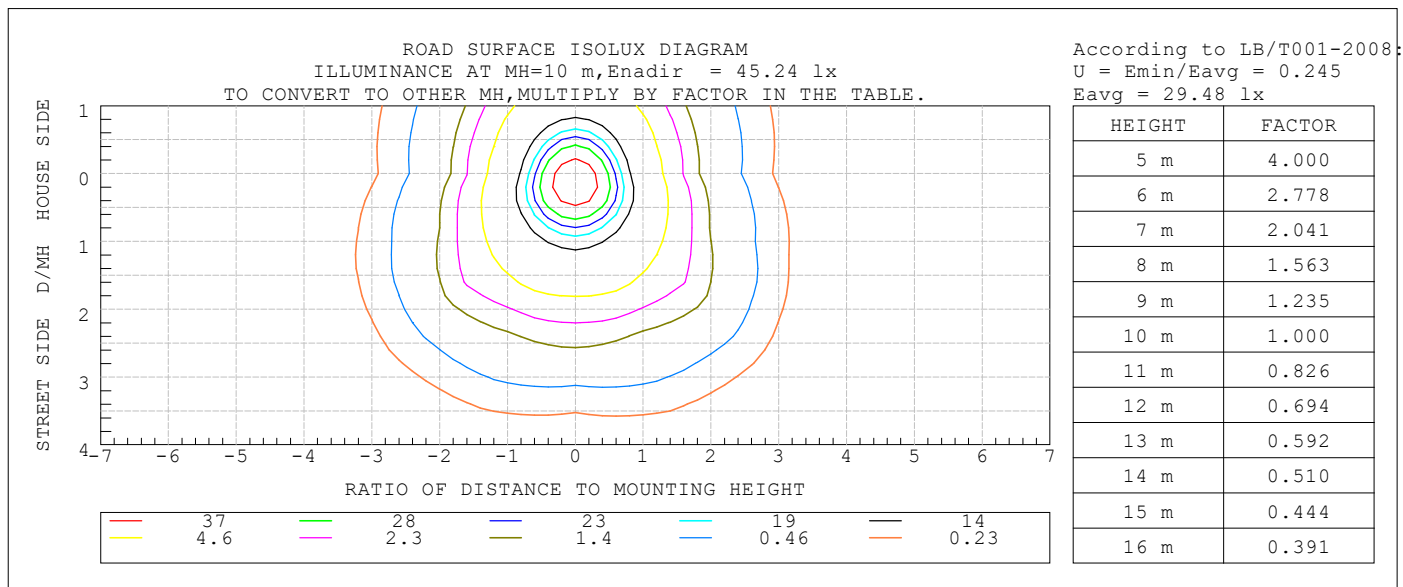
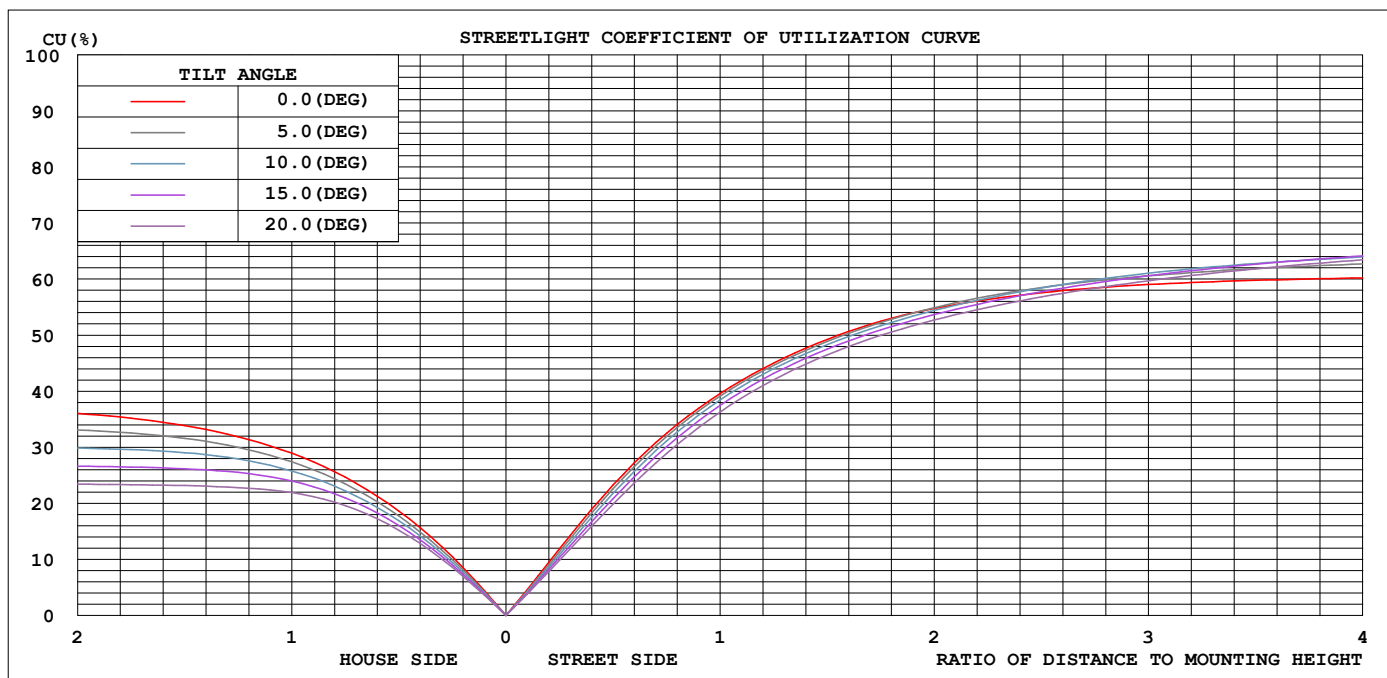
Classification:

IES:Type III - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:60.34cd/klm
Max.At90:5.602cd/klm
Max.80-90:60.34cd/klm
NRB 5101:Limited[7.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	5027
90%	4525
80%	4022
70%	3519
60%	3016
50%	2514
40%	2011
30%	1508
20%	1005
10%	503
5%	251

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:119.78V I:0.8223A P:98.243W PF:0.9975 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:13989.8x1 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:		

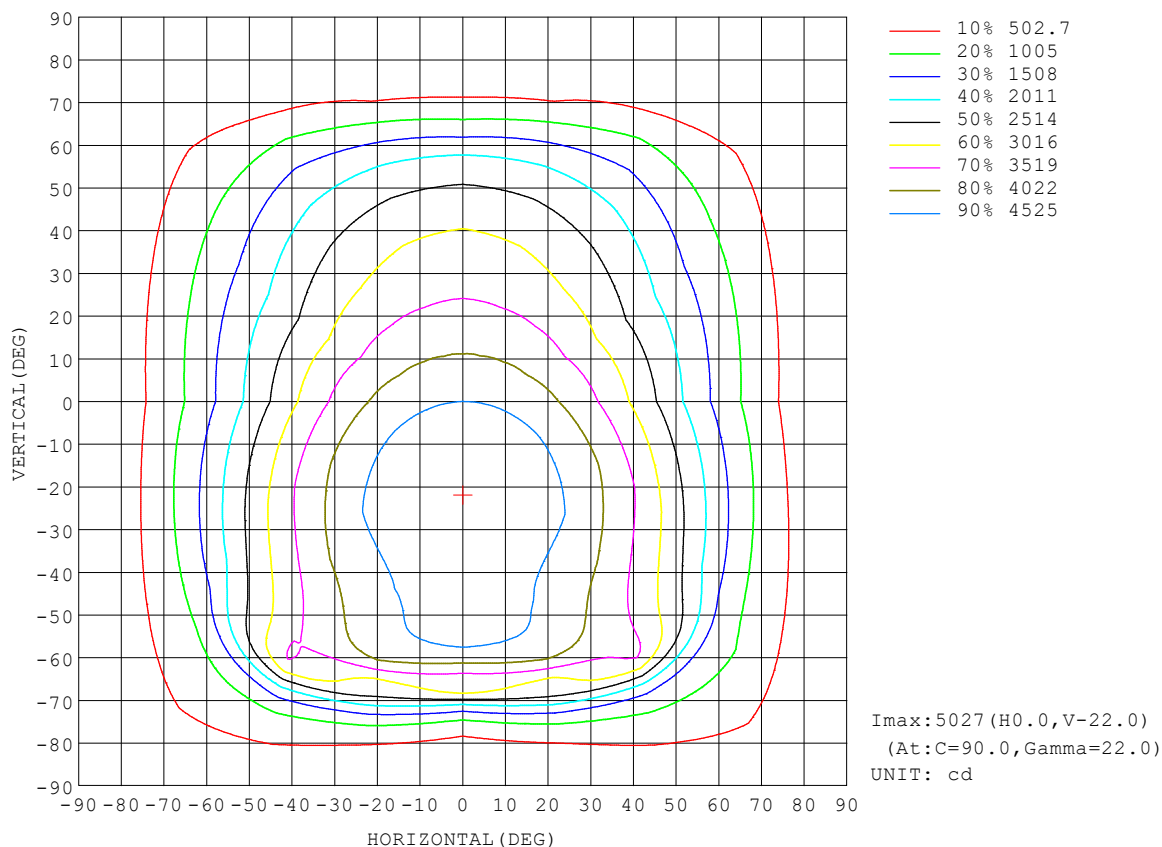
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4426	4750	4878	4739	4417	4149	4070	4153	0- 10	427.9	427.9	3.06,3.06
20	4125	4794	5024	4777	4108	3713	3669	3714	10- 20	1231	1659	11.9,11.9
30	3621	4660	4949	4638	3603	3244	3334	3235	20- 30	1885	3544	25.3,25.3
40	2937	4350	4773	4325	2911	2810	3032	2786	30- 40	2325	5869	42,42
50	2140	3920	4721	3874	2122	2328	2562	2297	40- 50	2519	8388	60,60
60	1360	3609	4253	3501	1352	1732	1747	1704	50- 60	2456	10844	77.5,77.5
70	712.7	2966	2432	3165	718.9	910.2	566.7	913.0	60- 70	1956	12800	91.5,91.5
80	238.4	778.9	385.2	766.0	250.5	187.5	167.9	190.8	70- 80	885.6	13685	97.8,97.8
90	4.078	57.96	33.86	78.37	5.234	9.591	10.80	9.089	80- 90	211.8	13897	99.3,99.3
100	6.014	5.268	5.343	5.307	6.062	10.48	12.27	10.73	90-100	9.082	13906	99.4,99.4
110	8.971	7.698	8.149	7.811	9.105	13.80	16.18	14.10	100-110	9.730	13916	99.5,99.5
120	12.21	10.21	10.78	10.38	12.43	16.82	19.51	17.19	110-120	12.09	13928	99.6,99.6
130	15.47	13.00	13.25	13.29	15.60	20.43	22.44	20.25	120-130	13.61	13942	99.7,99.7
140	18.58	16.16	16.14	16.61	18.61	23.66	25.46	23.35	130-140	14.12	13956	99.8,99.8
150	21.34	19.54	19.41	19.97	21.50	25.67	27.70	25.56	140-150	13.28	13969	99.9,99.9
160	24.09	22.63	22.82	22.97	24.07	26.52	28.10	26.59	150-160	10.91	13980	99.9,99.9
170	26.48	25.47	25.89	25.77	26.28	27.32	28.22	27.53	160-170	7.230	13987	100,100
180	27.33	27.33	27.93	27.64	27.36	27.43	27.88	27.74	170-180	2.577	13990	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

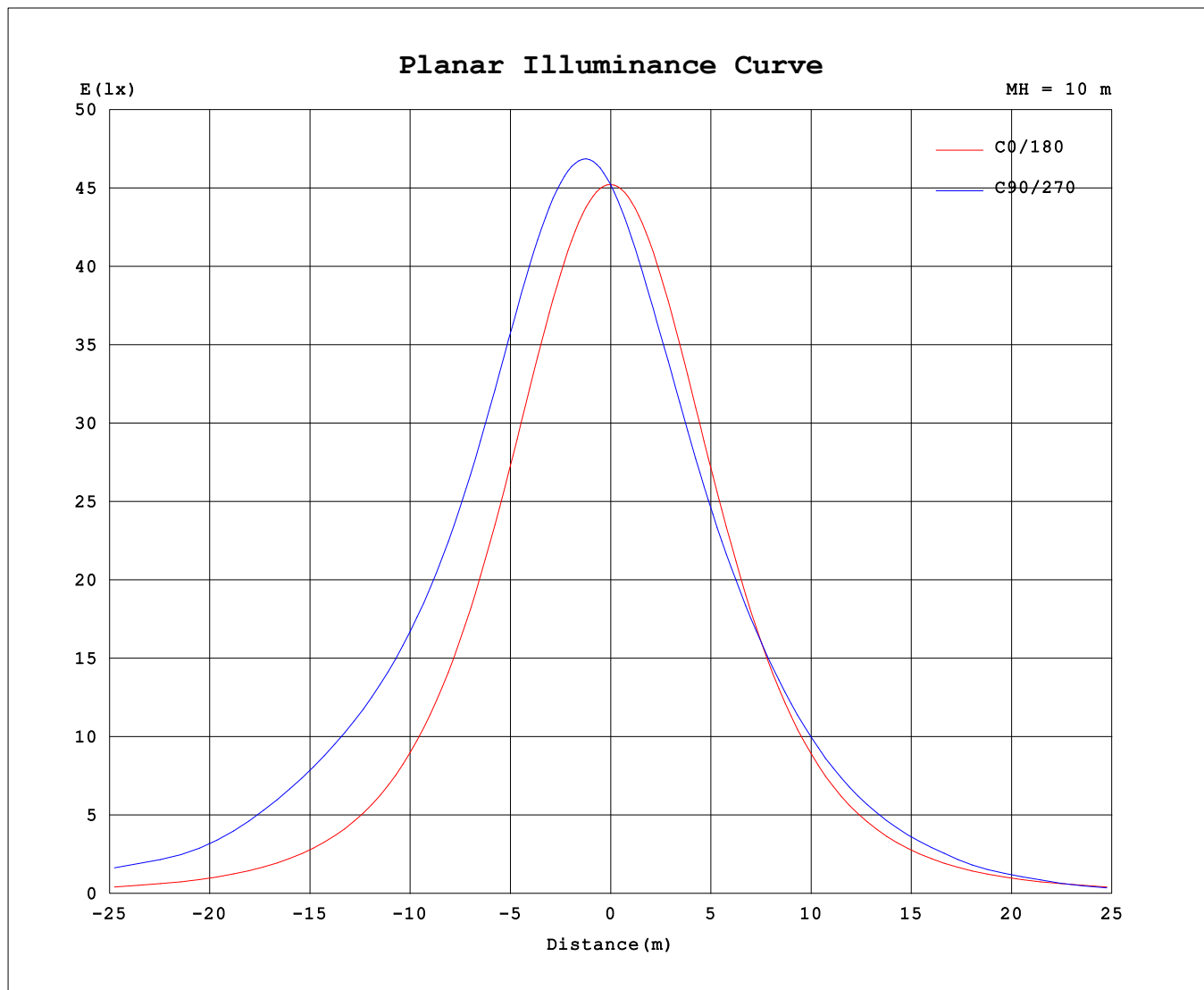
Test:U:119.78V I:0.8223A P:98.243W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13989.8x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 5000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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

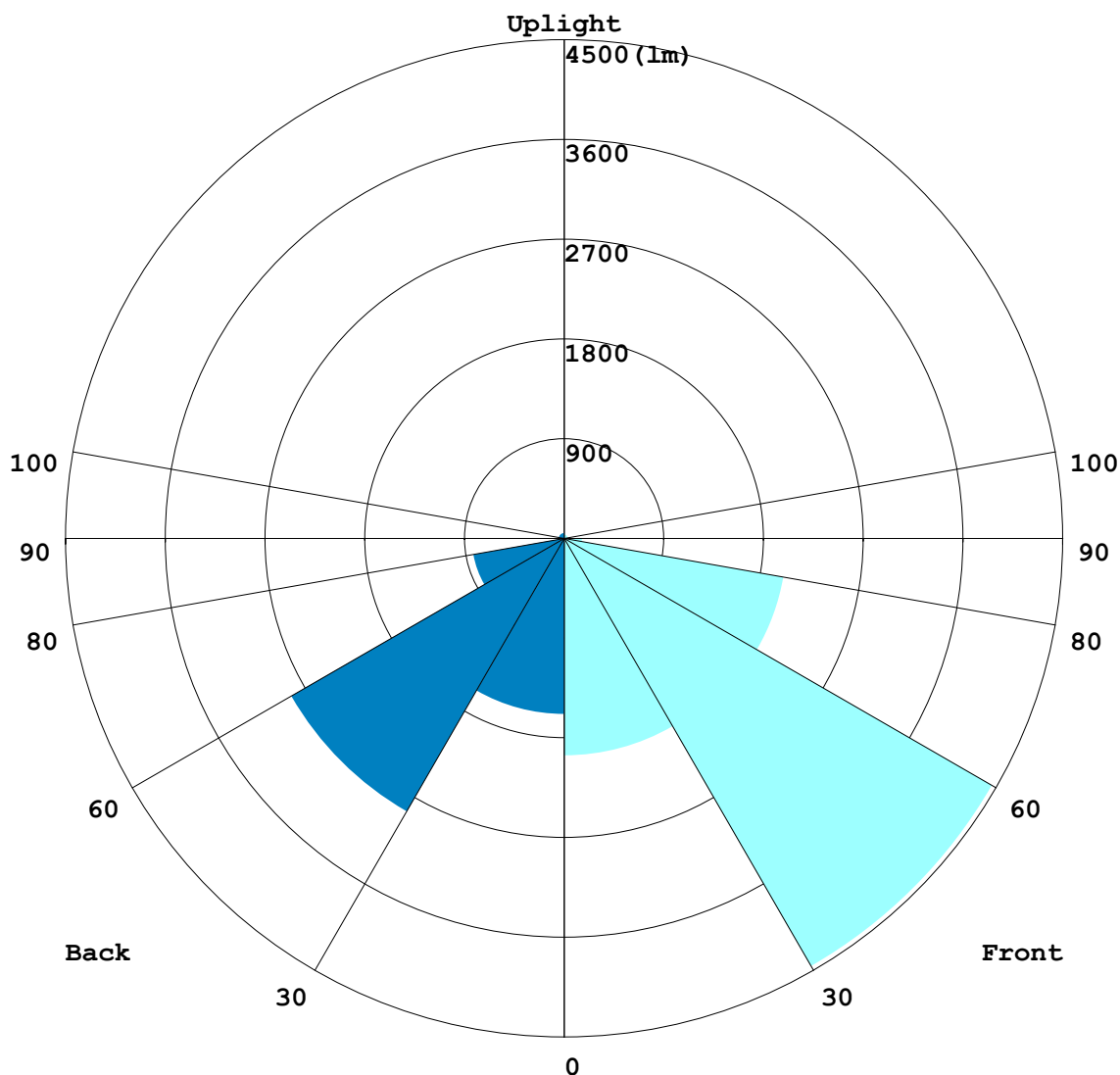


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:0.8223A P:98.243W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13989.8x1 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:0.8223A P:98.243W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13989.8x1 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)	1958.8	14.0
FM - Front-Medium(30-60)	4456.8	31.9
FH - Front-High(60-80)	2009.8	14.4
FVH - Front-Very High(80-90)	162.71	1.2
Total Forward Light	8627.4	61.7

BL - Back-Low(0-30)	1585.1	11.3
BM - Back-Medium(30-60)	2843.2	20.3
BH - Back-High(60-80)	831.69	5.9
BVH - Back-Very High(80-90)	49.081	0.4
Total Back Light	5362.4	38.3

UL - Uplight-Low(90-100)	9.0822	0.1
UH - Uplight-High(100-180)	83.549	0.6
Total Up Light	92.631	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5309.1	53.313	5362.4
Street Side	8588.1	39.318	8627.4

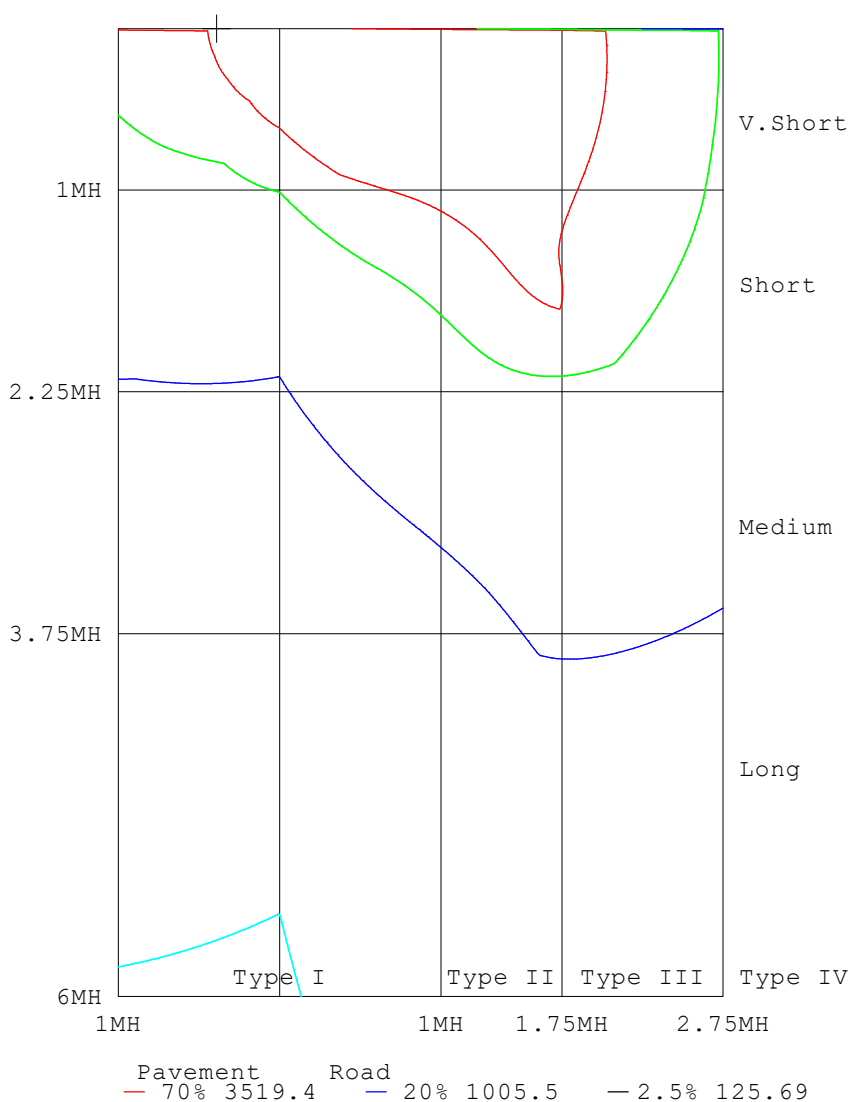
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:

ROAD ISOCANDELA REPORT

Test:U:119.78V I:0.8223A P:98.243W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13989.8x1 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℃
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:0.8223A P:98.243W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:13989.8x1 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	4524	4519	4519	4515	4522	4516	4519	4515	4524	4519	4519	4515	4522	4516	4519	4515			
5	4499	4584	4657	4703	4724	4699	4650	4572	4495	4410	4349	4303	4296	4303	4350	4411			
10	4426	4602	4750	4843	4878	4839	4739	4584	4417	4255	4149	4081	4070	4083	4153	4262			
15	4300	4571	4795	4933	4979	4926	4781	4549	4288	4060	3933	3872	3864	3873	3937	4068			
20	4125	4498	4794	4969	5024	4963	4777	4469	4108	3826	3713	3669	3669	3668	3714	3835			
25	3898	4378	4749	4954	5013	4944	4729	4341	3878	3565	3483	3468	3490	3465	3480	3571			
30	3621	4218	4660	4887	4949	4877	4638	4174	3603	3279	3244	3297	3334	3288	3235	3282			
35	3298	4014	4527	4781	4856	4770	4504	3963	3274	2971	3022	3141	3194	3130	3007	2969			
40	2937	3772	4350	4659	4773	4645	4325	3711	2911	2657	2810	2968	3032	2954	2786	2647			
45	2546	3485	4139	4565	4731	4539	4109	3412	2523	2348	2583	2757	2822	2741	2555	2327			
50	2140	3150	3920	4515	4721	4482	3874	3070	2122	2045	2328	2500	2562	2484	2297	2015			
55	1740	2775	3725	4490	4663	4458	3652	2686	1727	1743	2043	2189	2227	2174	2013	1708			
60	1360	2363	3609	4315	4253	4323	3501	2269	1352	1443	1732	1802	1747	1794	1704	1406			
65	1014	1915	3653	3357	3309	3413	3531	1819	1013	1151	1386	1237	1170	1233	1365	1115			
70	713	1448	2966	2642	2432	2620	3165	1348	719	873	910	607	567	612	913	840			
75	454	1063	1420	1324	921	1396	1531	914	464	606	425	340	318	339	432	581			
80	238	844	779	572	385	611	766	664	250	309	187	167	168	165	191	309			
85	73.9	449	374	227	165	243	371	372	87.2	88.0	73.9	81.7	83.4	79.8	70.2	84.7			
90	4.08	42.3	58.0	43.8	33.9	48.1	78.4	48.1	5.23	7.01	9.59	10.5	10.8	9.95	9.09	6.34			
95	4.72	3.96	4.19	4.16	4.15	4.21	4.20	4.09	4.79	6.69	8.75	9.93	10.1	10.1	9.04	7.04			
100	6.01	5.02	5.27	5.34	5.34	5.37	5.31	5.18	6.06	8.14	10.5	11.9	12.3	12.1	10.7	8.49			
105	7.44	6.24	6.46	6.66	6.73	6.69	6.54	6.42	7.51	9.69	12.2	13.8	14.4	14.1	12.5	10.0			
110	8.97	7.54	7.70	7.99	8.15	8.06	7.81	7.76	9.11	11.4	13.8	15.5	16.2	15.8	14.1	11.6			
115	10.6	8.95	8.94	9.25	9.51	9.38	9.08	9.17	10.8	13.0	15.3	17.1	17.8	17.5	15.6	13.1			
120	12.2	10.5	10.2	10.5	10.8	10.6	10.4	10.7	12.4	14.8	16.8	18.7	19.5	19.1	17.2	14.7			
125	13.9	12.0	11.6	11.7	12.0	11.9	11.8	12.3	14.1	16.5	18.6	20.3	20.9	20.5	18.8	16.3			
130	15.5	13.6	13.0	13.0	13.2	13.3	13.3	14.0	15.6	18.2	20.4	22.0	22.4	22.0	20.3	17.9			
135	17.1	15.4	14.6	14.4	14.6	14.8	15.0	15.7	17.1	19.8	22.1	23.6	23.9	23.3	21.7	19.5			
140	18.6	17.0	16.2	15.8	16.1	16.3	16.6	17.3	18.6	21.1	23.7	25.3	25.5	24.7	23.3	21.0			
145	19.9	18.5	17.8	17.4	17.6	17.9	18.2	18.8	20.1	22.3	24.8	26.5	26.8	25.9	24.6	22.2			
150	21.3	20.2	19.5	19.2	19.4	19.7	20.0	20.4	21.5	23.2	25.7	27.2	27.7	26.7	25.6	23.4			
155	22.8	21.7	21.2	20.9	21.2	21.4	21.6	21.9	22.8	24.1	26.2	27.5	28.0	27.1	26.1	24.4			
160	24.1	23.1	22.6	22.4	22.8	22.9	23.0	23.3	24.1	24.9	26.5	27.5	28.1	27.1	26.6	25.3			
165	25.3	24.5	24.1	23.9	24.3	24.3	24.4	24.7	25.2	25.7	27.0	27.7	28.1	27.4	27.1	26.3			
170	26.5	25.7	25.5	25.3	25.9	25.7	25.8	26.1	26.3	26.4	27.3	27.7	28.2	27.5	27.5	27.0			
175	27.1	26.5	26.5	26.5	27.0	26.7	26.8	27.0	27.1	27.1	27.7	27.8	28.3	27.8	27.9	27.6			
180	27.3	27.1	27.3	27.4	27.9	27.6	27.6	27.6	27.4	27.2	27.4	27.4	27.9	27.6	27.7	27.7			

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: