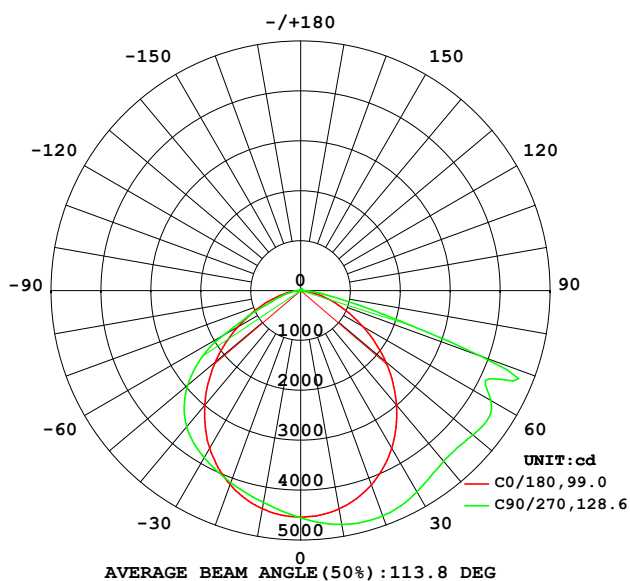
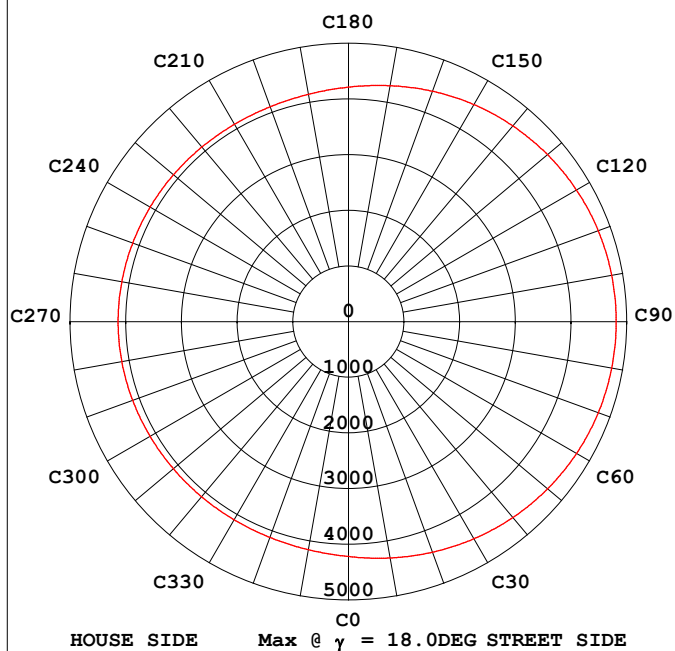


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.79V I:0.7872A P:94.059W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14465.9x1 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: 153.80 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	4809	η street_up (%)	0.3
NOMINAL POWER (W)	100	LOR (%)	100.0	η street_down (%)	58.6
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	14466	η house_up (%)	0.4
NOMINAL FLUX (lm)	14465.9	MAXIMUM @ (C, γ)	90,18.0	η house_down (%)	40.7
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

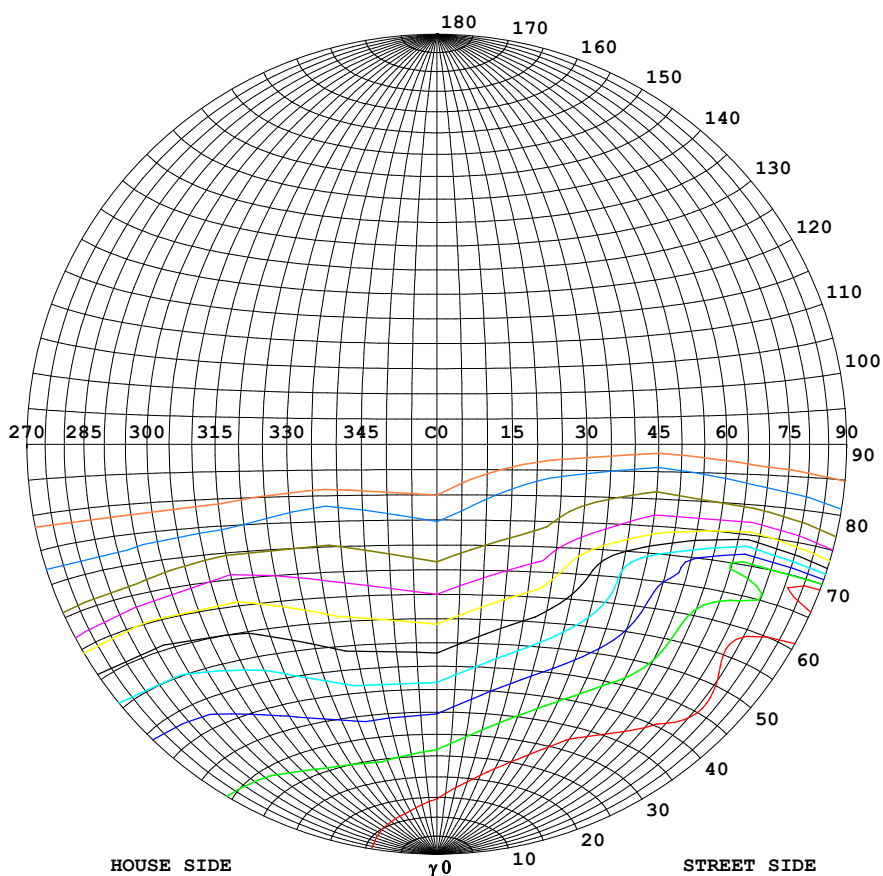
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:119.79V I:0.7872A P:94.059W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14465.9x1 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:



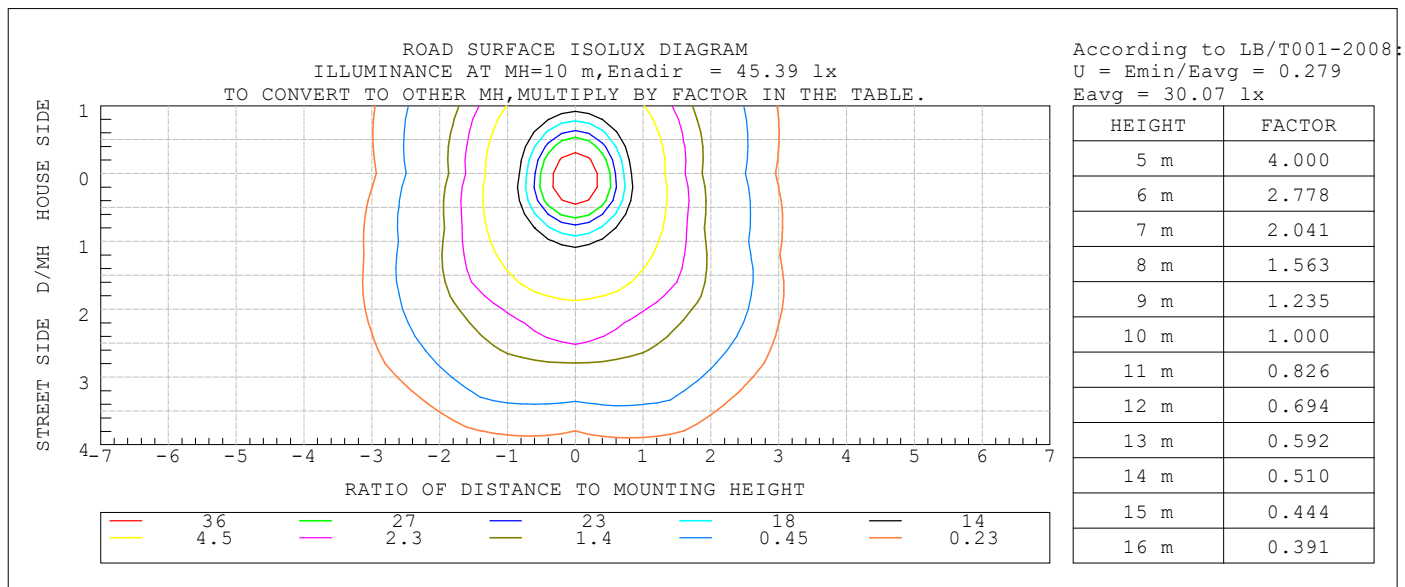
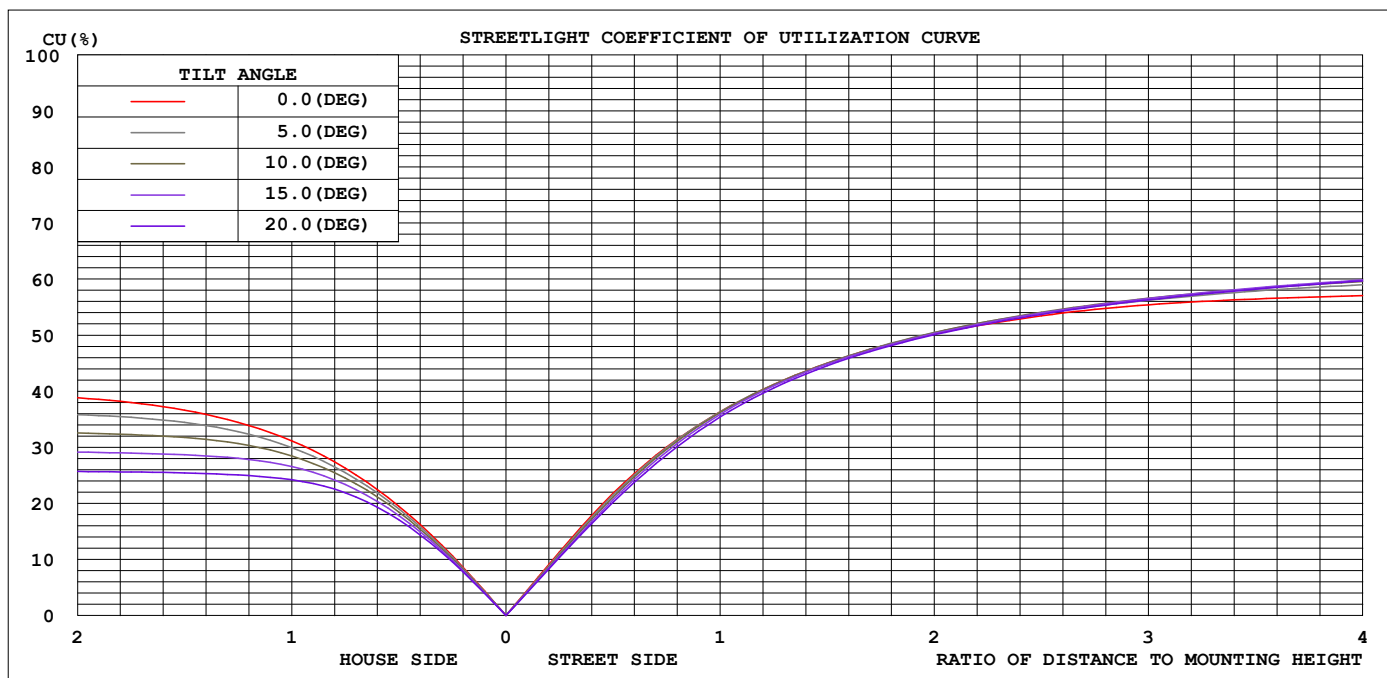
Classification:

IES:Type IV - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:76.47cd/klm
Max.At90:9.503cd/klm
Max.80-90:76.47cd/klm
NRB 5101:Limited[7.6%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4809
90%	4328
80%	3848
70%	3367
60%	2886
50%	2405
40%	1924
30%	1443
20%	962
10%	481
5%	240

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:119.79V I:0.7872A P:94.059W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14465.9x1 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:

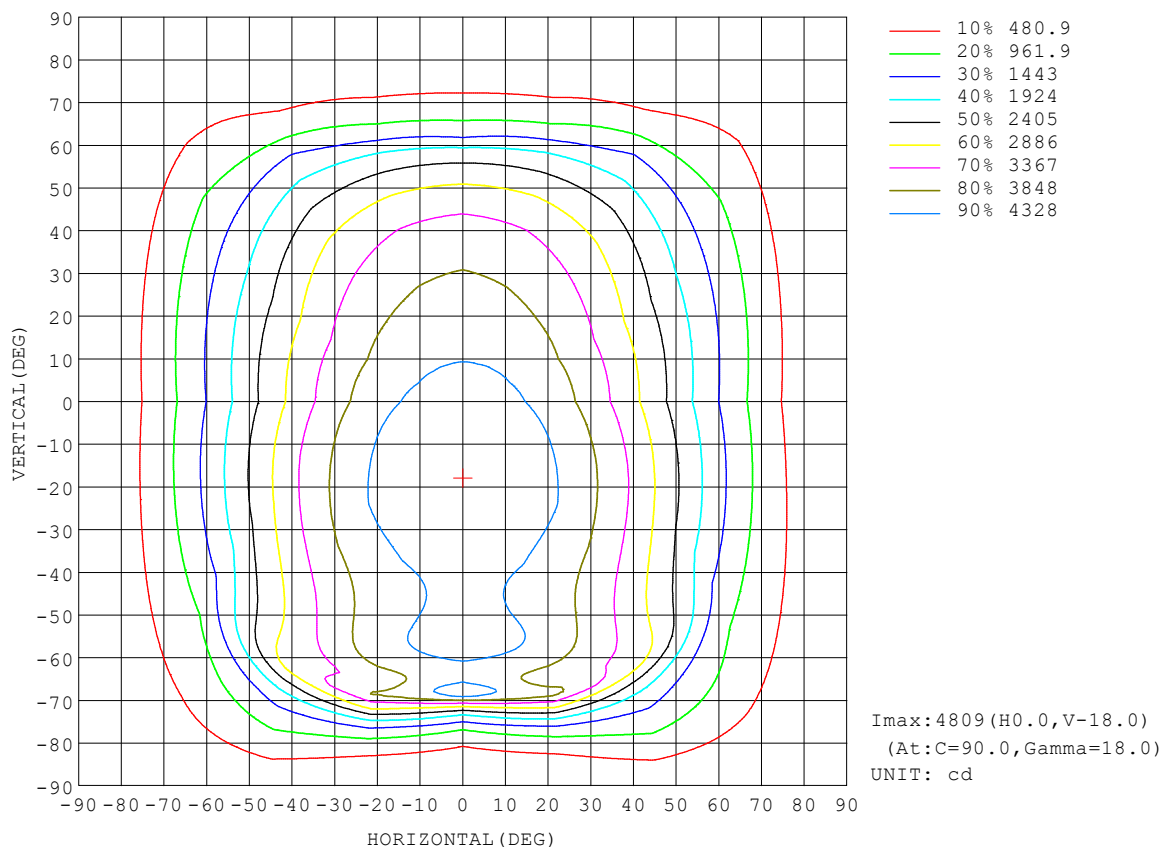
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4441	4658	4756	4662	4437	4324	4311	4336	0- 10	431.5	431.5	2.98,2.98
20	4143	4611	4805	4608	4138	4040	4095	4044	10- 20	1248	1680	11.6,11.6
30	3650	4402	4658	4393	3650	3686	3867	3677	20- 30	1924	3604	24.9,24.9
40	2990	4033	4463	4017	2992	3276	3558	3254	30- 40	2380	5983	41.4,41.4
50	2227	3571	4502	3530	2236	2745	2955	2718	40- 50	2572	8555	59.1,59.1
60	1440	3261	4400	3157	1451	2001	1796	1985	50- 60	2486	11041	76.3,76.3
70	745.2	2731	3843	2841	766.7	870.0	582.8	892.7	60- 70	2033	13074	90.4,90.4
80	234.6	1106	554.1	1030	257.8	200.4	201.2	201.7	70- 80	1043	14117	97.6,97.6
90	4.017	128.7	45.57	137.5	5.311	10.18	12.94	9.436	80- 90	252.9	14370	99.3,99.3
100	5.911	5.844	5.753	5.846	6.008	10.21	13.03	10.39	90-100	10.89	14381	99.4,99.4
110	8.853	8.604	8.930	8.684	9.031	13.22	16.32	13.43	100-110	9.927	14391	99.5,99.5
120	12.08	11.33	12.07	11.47	12.30	16.52	19.35	16.35	110-120	12.29	14403	99.6,99.6
130	15.30	14.25	14.74	14.41	15.50	20.06	22.11	19.50	120-130	13.84	14417	99.7,99.7
140	18.42	17.32	17.52	17.73	18.54	22.89	25.15	22.60	130-140	14.33	14432	99.8,99.8
150	21.27	20.63	20.68	21.05	21.52	24.68	26.89	24.56	140-150	13.38	14445	99.9,99.9
160	24.22	23.67	24.08	24.00	24.13	25.70	27.08	25.80	150-160	10.97	14456	99.9,99.9
170	26.65	26.20	26.65	26.36	26.35	26.88	27.65	27.00	160-170	7.269	14463	100,100
180	27.51	27.53	28.02	27.71	27.52	27.54	28.05	27.75	170-180	2.588	14466	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

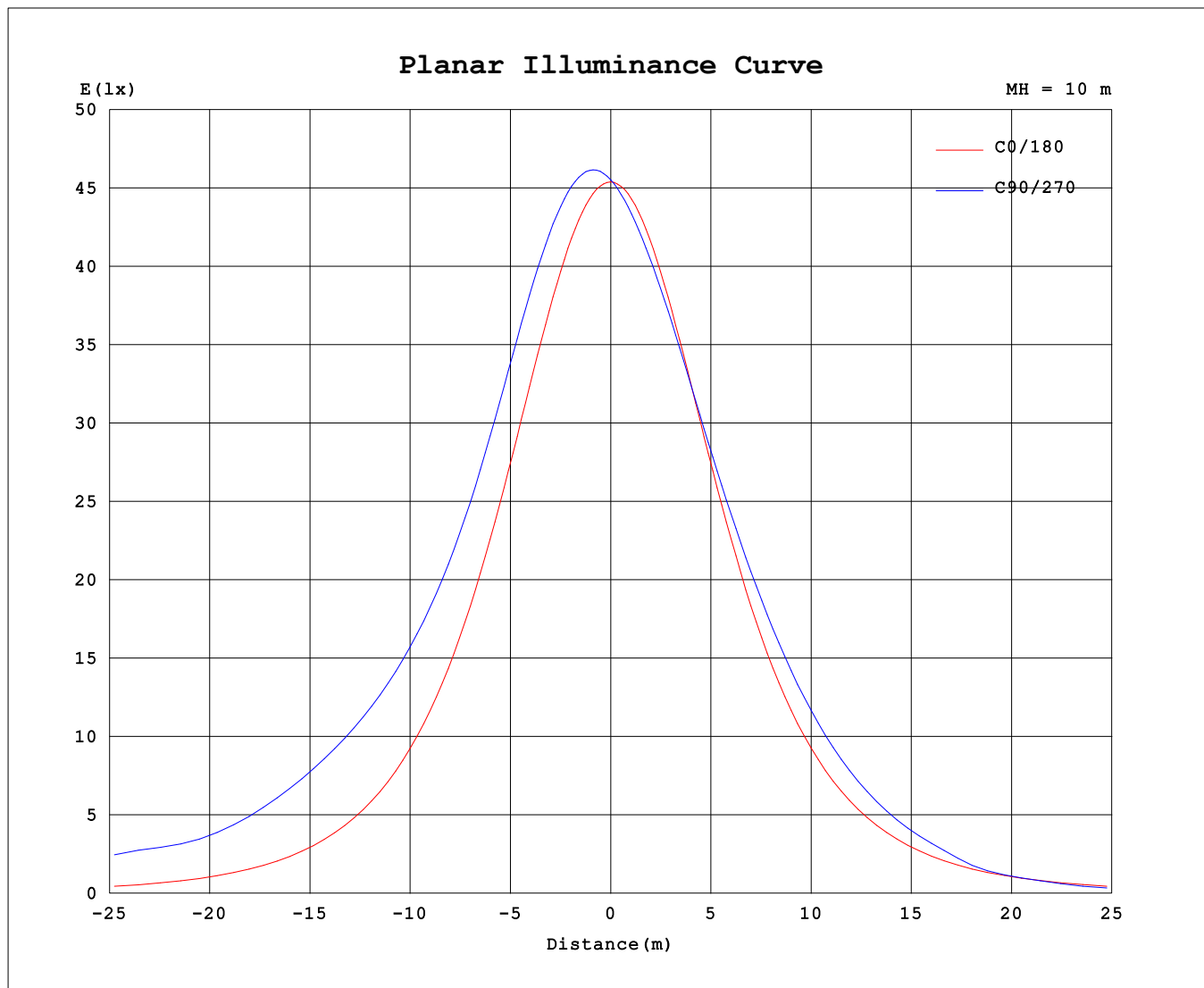
Test:U:119.79V I:0.7872A P:94.059W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14465.9x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 100W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



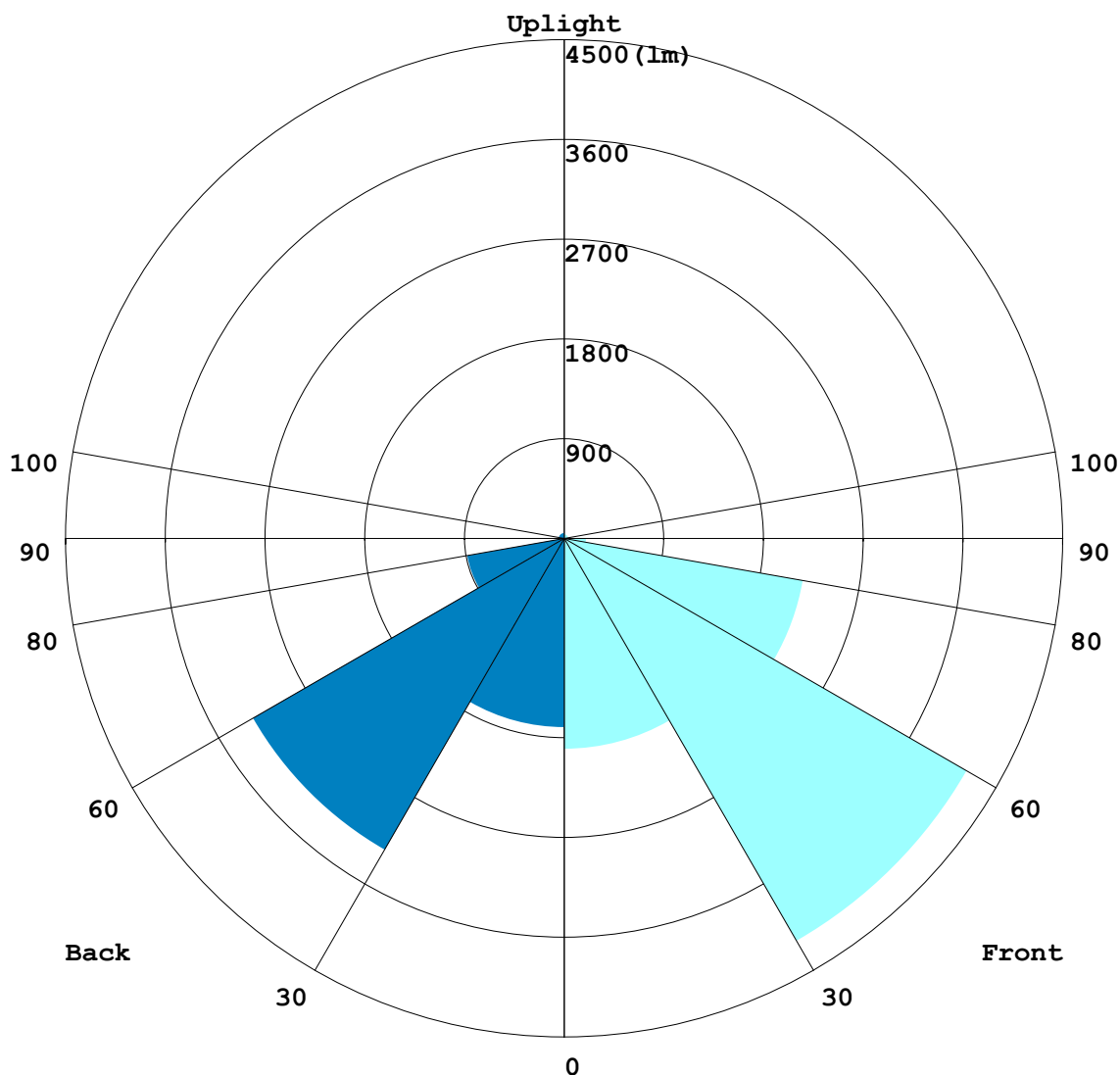
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:0.7872A P:94.059W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14465.9x1 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:0.7872A P:94.059W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14465.9x1 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)	1899.4	13.1
FM - Front-Medium(30-60)	4193.5	29.0
FH - Front-High(60-80)	2187.3	15.1
FVH - Front-Very High(80-90)	198.82	1.4
Total Forward Light	8522.1	58.9

BL - Back-Low(0-30)	1704.2	11.8
BM - Back-Medium(30-60)	3244.3	22.4
BH - Back-High(60-80)	888.72	6.1
BVH - Back-Very High(80-90)	54.064	0.4
Total Back Light	5943.7	41.1

UL - Uplight-Low(90-100)	10.885	0.1
UH - Uplight-High(100-180)	84.598	0.6
Total Up Light	95.484	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5891.3	52.405	5943.7
Street Side	8479.1	43.079	8522.1

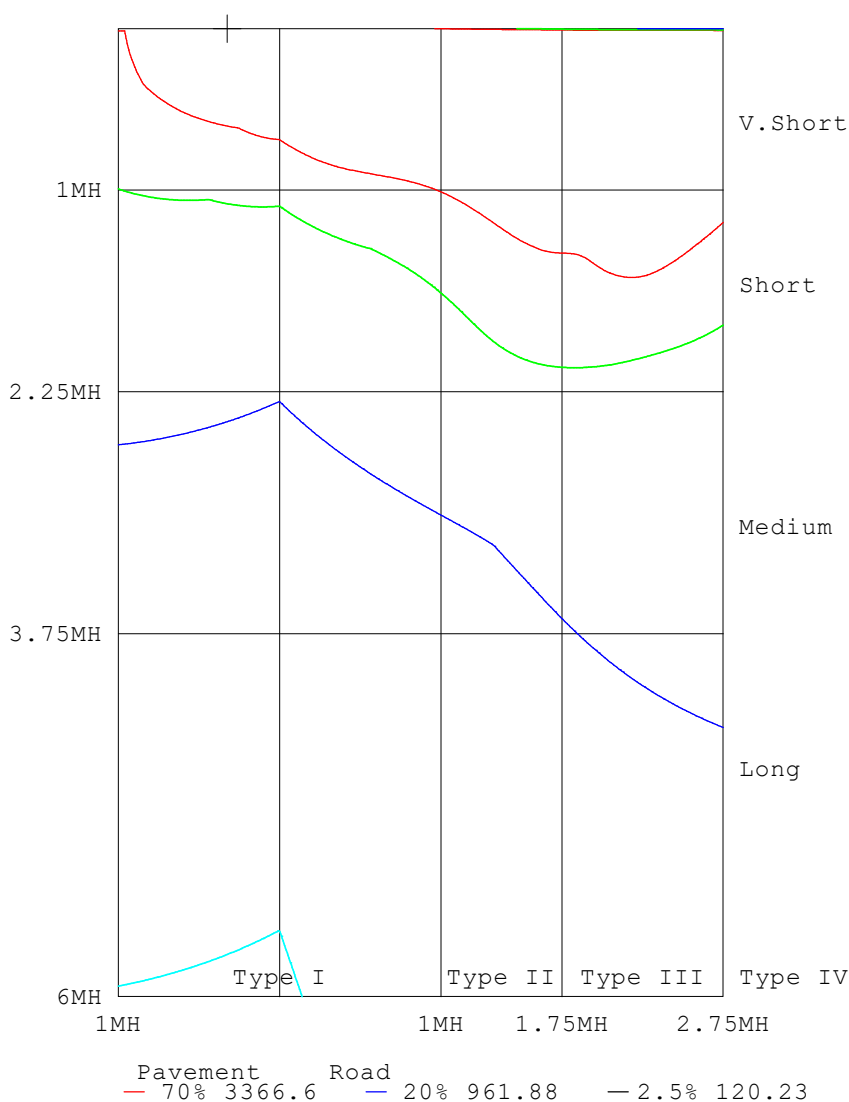
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:119.79V I:0.7872A P:94.059W PF:0.9975 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14465.9x1 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:0.7872A P:94.059W PF:0.9975 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:14465.9x1 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	4539	4542	4546	4548	4552	4551	4557	4558	4539	4542	4546	4548	4552	4551	4557	4558			
5	4516	4571	4621	4655	4669	4658	4628	4583	4514	4471	4446	4430	4429	4434	4459	4489			
10	4441	4553	4658	4730	4756	4731	4662	4561	4437	4360	4324	4310	4311	4314	4336	4378			
15	4315	4491	4655	4766	4804	4767	4655	4495	4312	4212	4190	4195	4205	4199	4198	4228			
20	4143	4384	4611	4760	4805	4759	4608	4383	4138	4027	4040	4073	4095	4074	4044	4041			
25	3918	4234	4527	4703	4755	4701	4522	4227	3915	3813	3871	3944	3982	3942	3869	3821			
30	3650	4042	4402	4601	4658	4598	4393	4026	3650	3571	3686	3810	3867	3806	3677	3571			
35	3337	3810	4238	4468	4543	4461	4227	3786	3337	3297	3496	3665	3735	3657	3475	3290			
40	2990	3544	4033	4336	4463	4318	4017	3514	2992	2999	3276	3481	3558	3472	3254	2984			
45	2618	3224	3799	4250	4451	4224	3776	3180	2623	2687	3034	3236	3303	3226	3007	2663			
50	2227	2869	3571	4230	4502	4194	3530	2814	2236	2366	2745	2910	2955	2903	2718	2333			
55	1830	2478	3377	4265	4554	4224	3308	2413	1843	2035	2401	2486	2491	2485	2378	1996			
60	1440	2062	3261	4213	4400	4190	3157	1989	1451	1693	2001	1950	1796	1955	1985	1653			
65	1072	1635	3274	3689	4183	3679	3152	1549	1089	1353	1539	1136	1067	1142	1535	1315			
70	745	1228	2731	4002	3843	3895	2841	1129	767	1017	870	600	583	603	893	984			
75	464	911	1672	2086	1451	2217	1653	778	487	687	424	357	352	358	430	666			
80	235	700	1106	862	554	931	1030	557	258	307	200	196	201	194	202	315			
85	70.2	370	558	340	229	366	534	309	89.3	88.8	85.6	99.6	103	97.5	81.2	85.3			
90	4.02	35.8	129	62.6	45.6	69.0	137	40.3	5.31	7.00	10.2	12.1	12.9	11.3	9.44	6.12			
95	4.62	4.31	4.59	4.45	4.37	4.47	4.60	4.40	4.73	6.32	8.67	10.7	11.4	10.8	8.90	6.64			
100	5.91	5.46	5.84	5.83	5.75	5.77	5.85	5.57	6.01	7.72	10.2	12.4	13.0	12.4	10.4	8.03			
105	7.34	6.76	7.20	7.33	7.30	7.26	7.22	6.90	7.46	9.25	11.7	14.0	15.0	14.1	12.0	9.53			
110	8.85	8.13	8.60	8.88	8.93	8.84	8.68	8.31	9.03	10.9	13.2	15.4	16.3	15.6	13.4	11.1			
115	10.4	9.57	9.96	10.4	10.6	10.4	10.1	9.76	10.7	12.6	14.9	16.8	17.6	17.0	14.9	12.6			
120	12.1	11.1	11.3	11.8	12.1	11.9	11.5	11.3	12.3	14.3	16.5	18.6	19.4	18.7	16.4	14.2			
125	13.7	12.7	12.8	13.1	13.4	13.2	12.9	12.9	13.9	16.0	18.3	20.2	20.6	19.8	17.8	15.8			
130	15.3	14.3	14.3	14.5	14.7	14.6	14.4	14.6	15.5	17.6	20.1	21.9	22.1	21.2	19.5	17.5			
135	16.9	16.0	15.8	15.8	16.1	16.0	16.1	16.3	17.0	19.0	21.6	23.5	23.6	22.9	21.1	19.1			
140	18.4	17.6	17.3	17.2	17.5	17.5	17.7	18.0	18.5	20.4	22.9	25.0	25.1	24.3	22.6	20.6			
145	19.8	19.1	18.8	18.7	18.9	19.1	19.3	19.5	20.0	21.5	23.8	26.0	26.2	25.2	23.6	21.8			
150	21.3	20.8	20.6	20.5	20.7	20.8	21.0	21.2	21.5	22.6	24.7	26.5	26.9	25.9	24.6	23.1			
155	22.8	22.4	22.3	22.2	22.5	22.6	22.7	22.7	22.9	23.5	25.2	26.7	27.0	26.1	25.2	24.1			
160	24.2	23.8	23.7	23.7	24.1	24.0	24.0	24.0	24.1	24.4	25.7	26.7	27.1	26.3	25.8	25.1			
165	25.5	25.0	25.0	25.0	25.4	25.2	25.3	25.4	25.3	25.3	26.3	27.1	27.3	26.6	26.4	26.1			
170	26.6	26.1	26.2	26.2	26.7	26.3	26.4	26.5	26.4	26.2	26.9	27.3	27.7	27.0	27.0	26.9			
175	27.3	26.8	27.0	27.1	27.5	27.1	27.1	27.3	27.2	27.0	27.5	27.7	28.1	27.6	27.7	27.6			
180	27.5	27.2	27.5	27.7	28.0	27.6	27.7	27.8	27.5	27.2	27.5	27.7	28.0	27.7	27.7	27.8			

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: