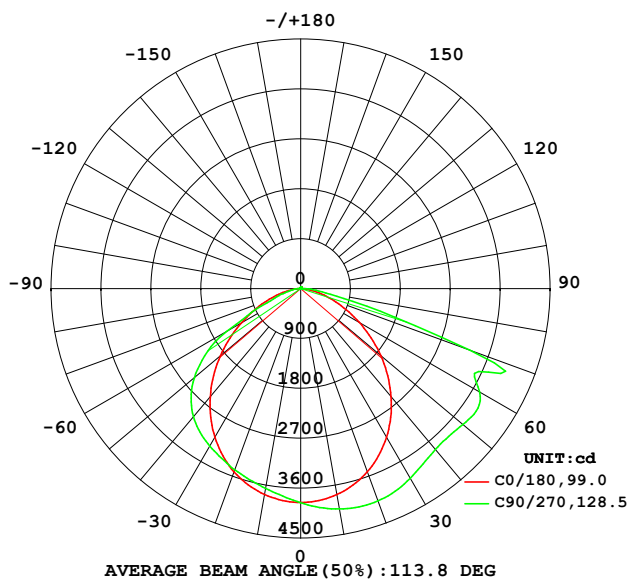
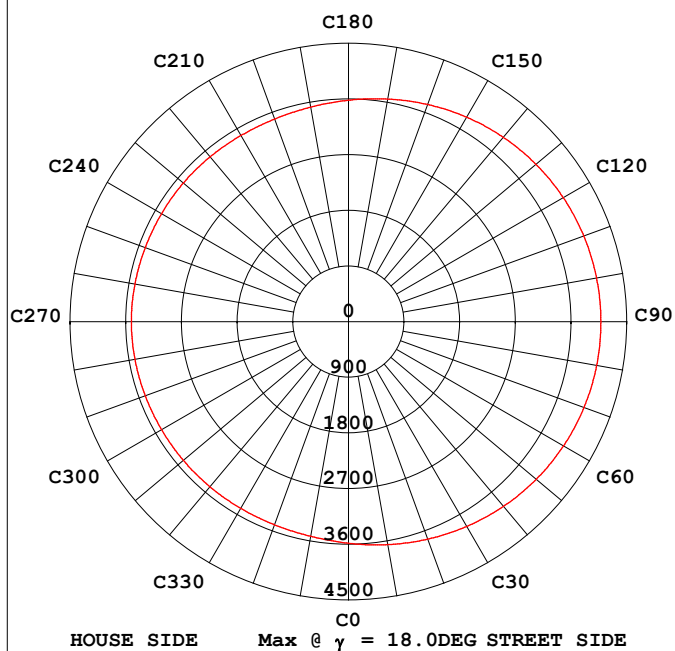


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.82V I:0.6486A P:77.462W PF:0.9968 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12268.8x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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: 158.38 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	4081	η street_up (%)	0.3
NOMINAL POWER (W)	80	LOR (%)	100.0	η street_down (%)	58.6
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	12269	η house_up (%)	0.4
NOMINAL FLUX (lm)	12268.8	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	

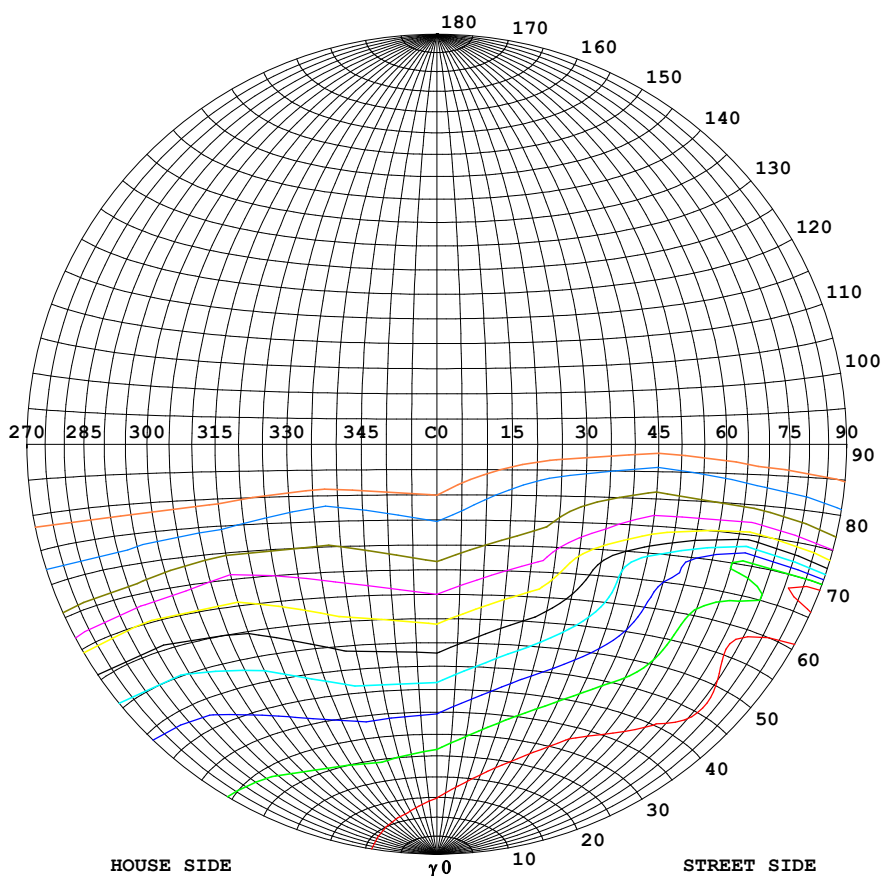
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °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:119.82V I:0.6486A P:77.462W PF:0.9968 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12268.8x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



Classification:

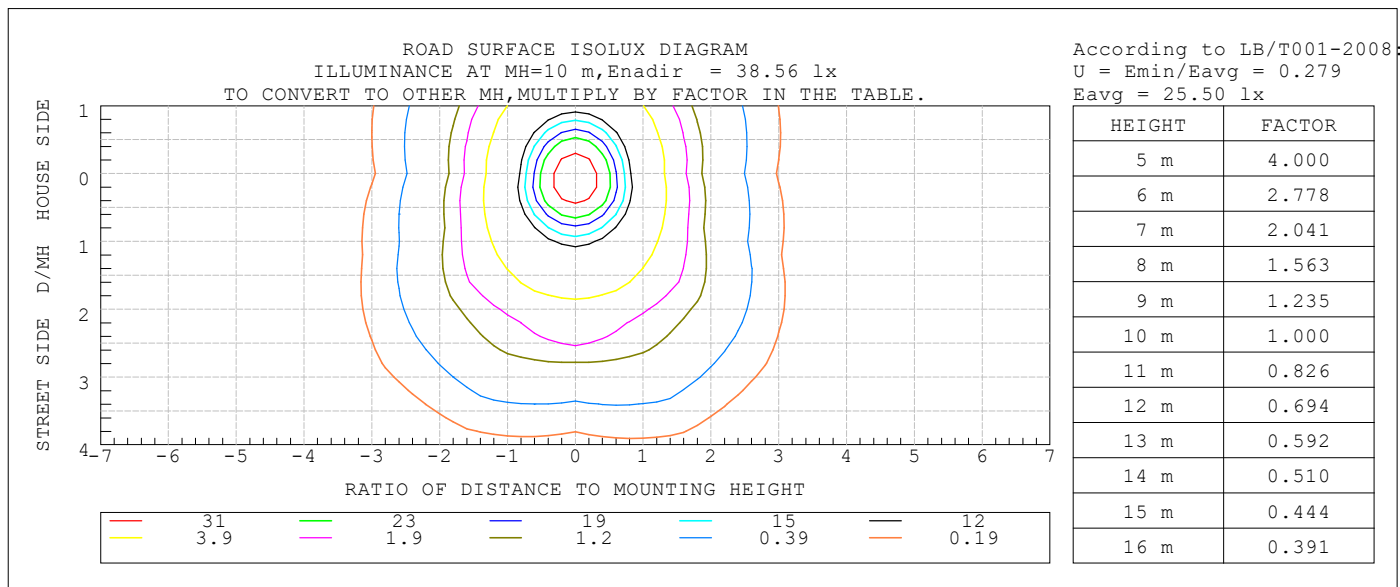
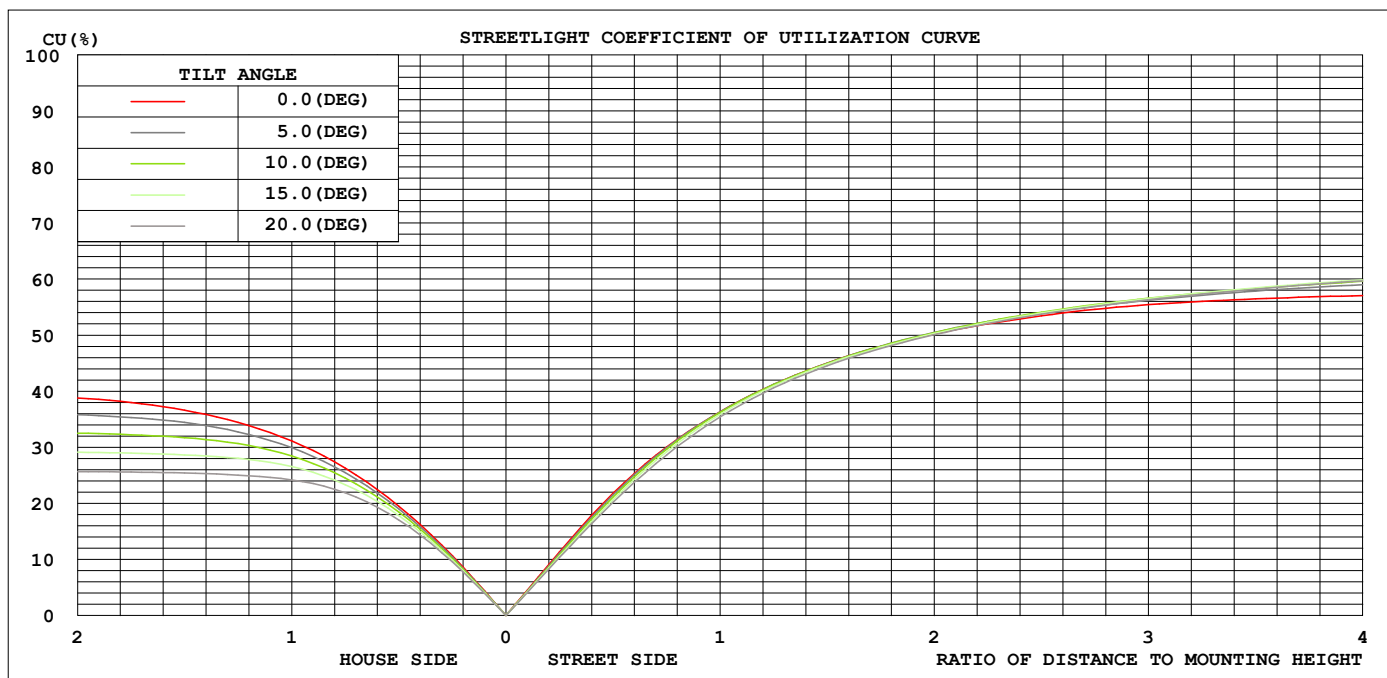
IES:Type IV - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:76.23cd/klm
Max.At90:7.942cd/klm
Max.80-90:76.23cd/klm
NRB 5101:Limited[7.6%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4081
90%	3673
80%	3265
70%	2857
60%	2449
50%	2041
40%	1632
30%	1224
20%	816
10%	408
5%	204

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:119.82V I:0.6486A P:77.462W PF:0.9968 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:12268.8x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2			Type: 80W			Weight:		
SPEC.: 4000K			DIM.: 0-10V			Instrument No.: HUP-IES1-LAB		
MFR.:			SUR.: 0.28*0.16			shielding angle:		

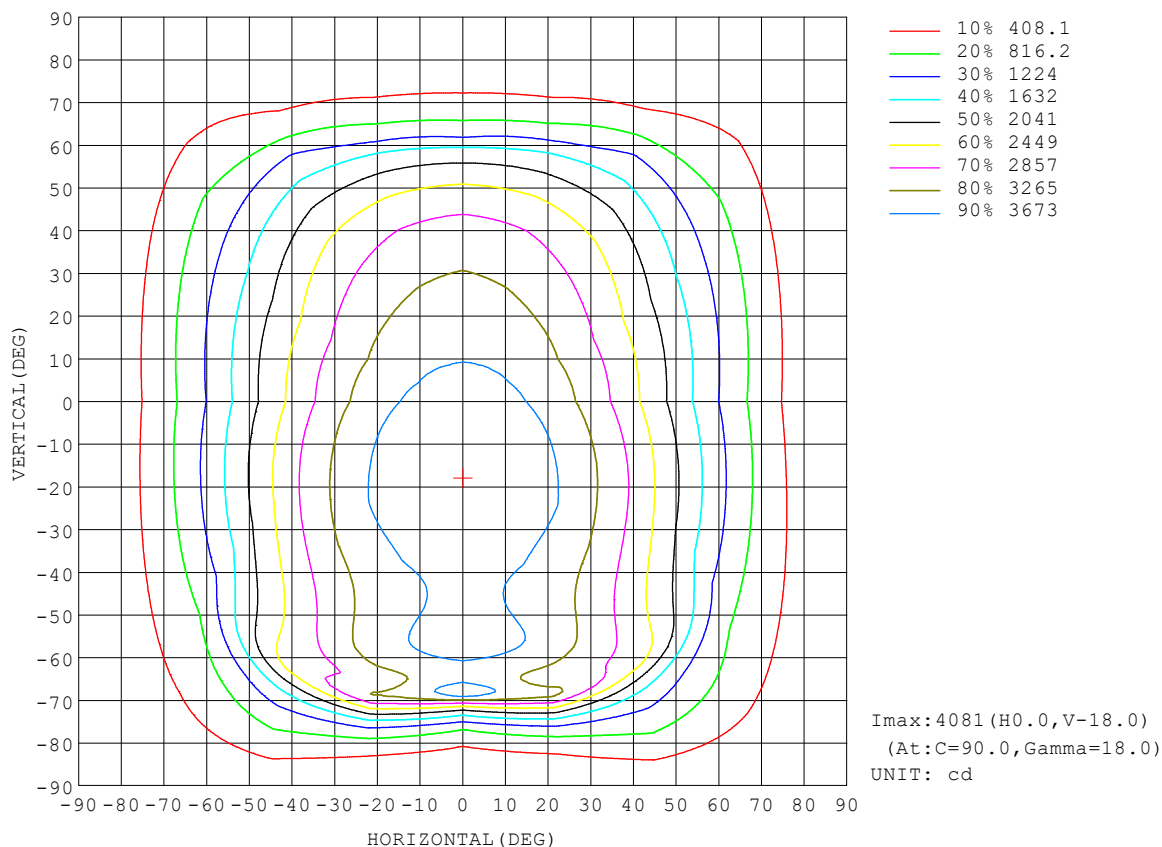
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3770	3953	4033	3953	3769	3672	3656	3676	0- 10	366.1	366.1	2.98,2.98
20	3517	3915	4076	3907	3519	3429	3476	3430	10- 20	1059	1425	11.6,11.6
30	3098	3736	3951	3725	3096	3126	3279	3115	20- 30	1632	3057	24.9,24.9
40	2540	3423	3785	3405	2539	2776	3012	2756	30- 40	2018	5075	41.4,41.4
50	1891	3029	3818	2991	1897	2326	2504	2303	40- 50	2181	7256	59.1,59.1
60	1222	2767	3727	2677	1231	1696	1528	1682	50- 60	2108	9364	76.3,76.3
70	633.1	2316	3245	2402	649.6	738.6	494.3	760.7	60- 70	1723	11087	90.4,90.4
80	199.5	935.3	468.4	869.2	218.0	169.9	170.6	171.8	70- 80	887.2	11974	97.6,97.6
90	3.453	91.42	38.19	97.43	4.570	8.591	11.10	8.135	80- 90	214.0	12188	99.3,99.3
100	5.062	4.957	4.879	4.994	5.159	8.690	11.13	8.956	90-100	8.632	12196	99.4,99.4
110	7.597	7.346	7.639	7.435	7.743	11.28	13.89	11.53	100-110	8.482	12205	99.5,99.5
120	10.34	9.715	10.31	9.832	10.54	14.06	16.49	14.02	110-120	10.51	12215	99.6,99.6
130	13.12	12.18	12.65	12.35	13.27	17.05	18.73	16.60	120-130	11.83	12227	99.7,99.7
140	15.83	14.78	15.00	15.15	15.86	19.50	21.40	19.26	130-140	12.23	12240	99.8,99.8
150	18.30	17.65	17.74	18.05	18.39	20.98	22.83	20.90	140-150	11.43	12251	99.9,99.9
160	20.77	20.24	20.56	20.53	20.72	21.97	23.16	22.06	150-160	9.374	12260	99.9,99.9
170	22.89	22.41	22.83	22.61	22.71	23.08	23.75	23.22	160-170	6.230	12267	100,100
180	23.64	23.63	24.05	23.81	23.66	23.63	24.08	23.82	170-180	2.222	12269	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

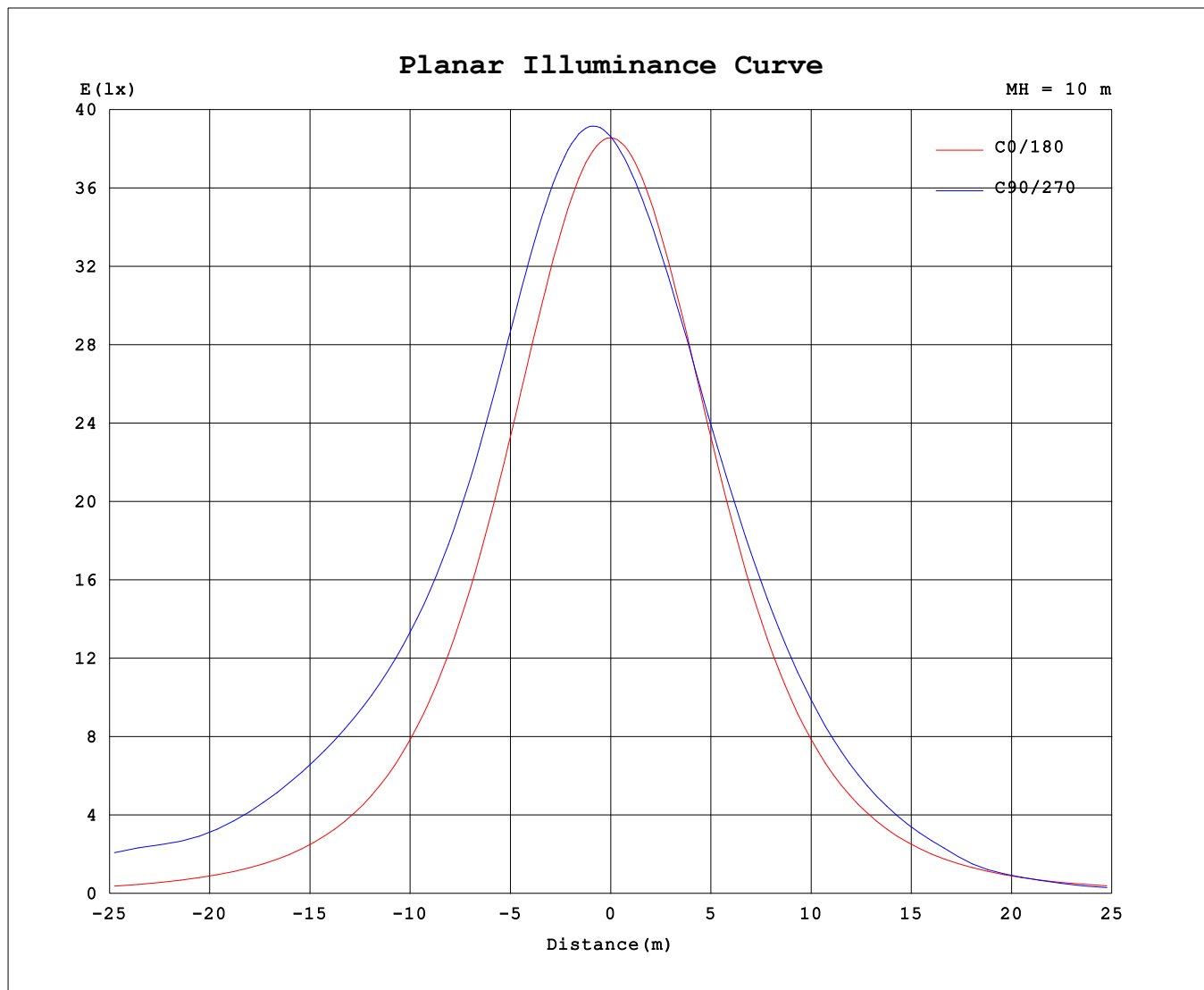
Test:U:119.82V I:0.6486A P:77.462W PF:0.9968 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12268.8x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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

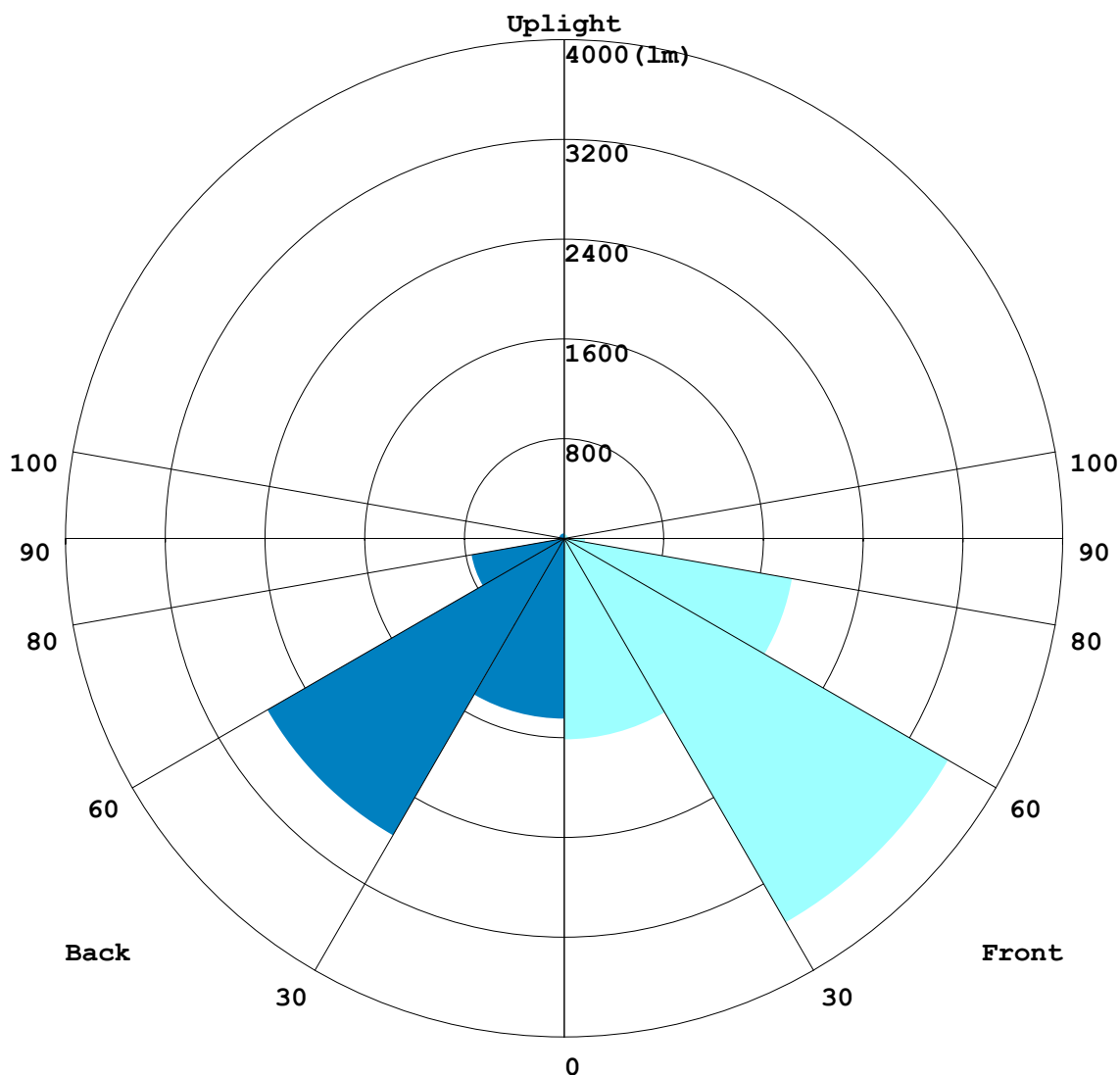


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:119.82V I:0.6486A P:77.462W PF:0.9968 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12268.8x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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:119.82V I:0.6486A P:77.462W PF:0.9968 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12268.8x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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)	1611.6	13.1
FM - Front-Medium(30-60)	3557.1	29.0
FH - Front-High(60-80)	1856.1	15.1
FVH - Front-Very High(80-90)	168.05	1.4
Total Forward Light	7229.1	58.9

BL - Back-Low(0-30)	1445.5	11.8
BM - Back-Medium(30-60)	2749.9	22.4
BH - Back-High(60-80)	753.59	6.1
BVH - Back-Very High(80-90)	45.987	0.4
Total Back Light	5039.6	41.1

UL - Uplight-Low(90-100)	8.6324	0.1
UH - Uplight-High(100-180)	72.303	0.6
Total Up Light	80.935	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4994.9	44.705	5039.6
Street Side	7192.9	36.23	7229.1

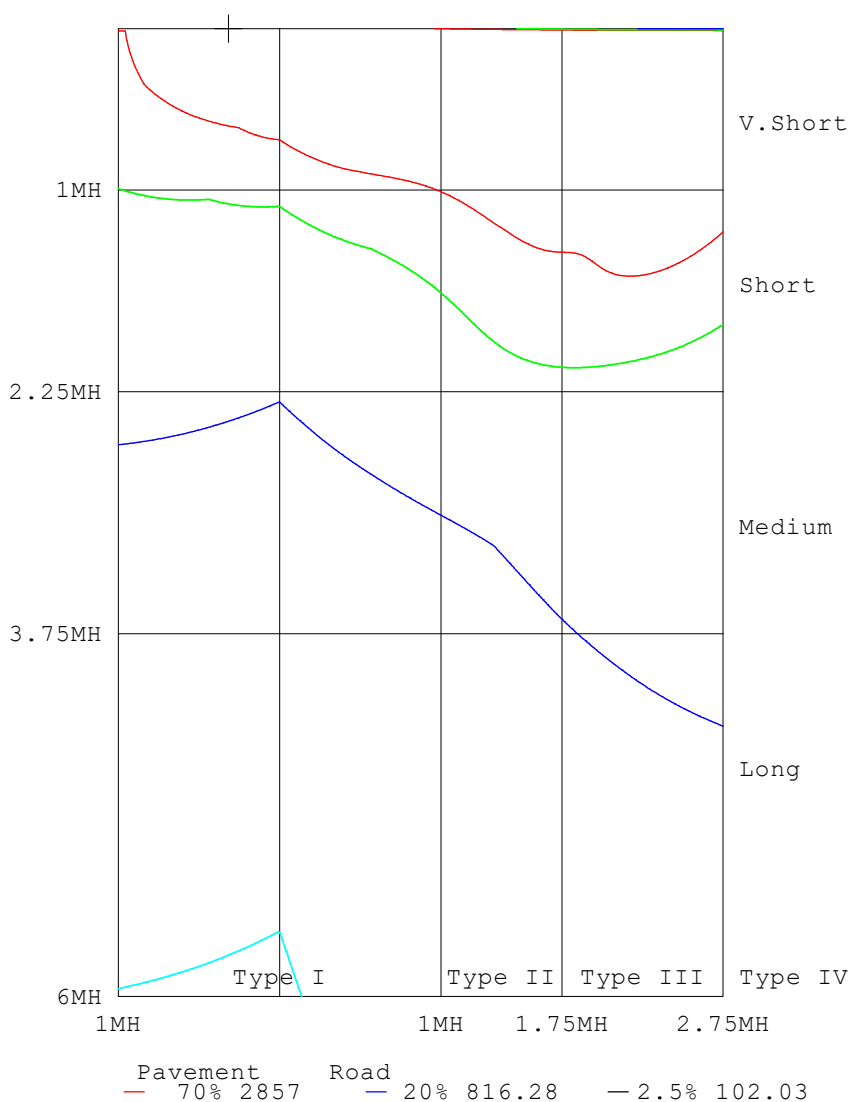
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:119.82V I:0.6486A P:77.462W PF:0.9968 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12268.8x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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:119.82V I:0.6486A P:77.462W PF:0.9968 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12268.8x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	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	3856	3857	3859	3858	3862	3859	3863	3863	3856	3857	3859	3858	3862	3859	3863	3863			
5	3834	3880	3922	3950	3961	3950	3923	3885	3835	3796	3773	3757	3756	3759	3778	3805			
10	3770	3865	3953	4011	4033	4011	3953	3867	3769	3702	3672	3655	3656	3658	3676	3713			
15	3667	3812	3950	4044	4076	4042	3947	3812	3663	3575	3557	3557	3567	3558	3560	3583			
20	3517	3723	3915	4037	4076	4035	3907	3717	3519	3417	3429	3455	3476	3454	3430	3425			
25	3329	3596	3843	3992	4033	3988	3834	3586	3325	3234	3283	3345	3377	3341	3281	3237			
30	3098	3433	3736	3907	3951	3901	3725	3415	3096	3028	3126	3230	3279	3224	3115	3024			
35	2834	3235	3597	3790	3854	3782	3582	3209	2833	2796	2957	3106	3165	3097	2943	2788			
40	2540	3004	3423	3679	3785	3665	3405	2970	2539	2541	2776	2950	3012	2940	2756	2530			
45	2223	2737	3225	3607	3774	3582	3200	2694	2226	2278	2572	2744	2798	2733	2547	2257			
50	1891	2435	3029	3590	3818	3557	2991	2384	1897	2005	2326	2466	2504	2459	2303	1977			
55	1556	2104	2864	3619	3862	3581	2804	2045	1562	1724	2036	2110	2114	2107	2016	1692			
60	1222	1749	2767	3578	3727	3557	2677	1684	1231	1435	1696	1657	1528	1660	1682	1401			
65	910	1388	2778	3125	3544	3114	2673	1312	923	1146	1306	964	907	970	1301	1114			
70	633	1042	2316	3386	3245	3294	2402	956	650	861	739	509	494	513	761	835			
75	394	773	1438	1769	1237	1870	1428	659	413	582	368	303	297	304	378	565			
80	199	594	935	731	468	786	869	472	218	261	170	166	171	165	172	269			
85	60.0	315	471	288	194	310	449	261	75.2	75.2	72.6	84.7	87.6	83.2	69.1	72.7			
90	3.45	31.2	91.4	52.4	38.2	57.4	97.4	33.6	4.57	5.95	8.59	10.3	11.1	9.76	8.13	5.26			
95	3.97	3.65	3.90	3.80	3.72	3.84	3.94	3.76	4.07	5.39	7.36	9.08	9.70	9.27	7.66	5.70			
100	5.06	4.65	4.96	4.95	4.88	4.95	4.99	4.76	5.16	6.59	8.69	10.6	11.1	10.7	8.96	6.90			
105	6.29	5.77	6.14	6.23	6.21	6.23	6.19	5.90	6.40	7.87	9.99	11.9	12.8	12.1	10.3	8.16			
110	7.60	6.96	7.35	7.58	7.64	7.60	7.44	7.12	7.74	9.31	11.3	13.1	13.9	13.3	11.5	9.49			
115	8.95	8.20	8.55	8.88	9.05	8.92	8.66	8.35	9.13	10.7	12.7	14.3	15.0	14.6	12.8	10.8			
120	10.3	9.52	9.72	10.1	10.3	10.2	9.83	9.67	10.5	12.2	14.1	15.8	16.5	16.0	14.0	12.1			
125	11.7	10.9	10.9	11.3	11.5	11.3	11.0	11.1	11.9	13.7	15.5	17.1	17.5	16.9	15.2	13.5			
130	13.1	12.3	12.2	12.4	12.6	12.5	12.3	12.5	13.3	15.0	17.0	18.6	18.7	18.1	16.6	14.9			
135	14.5	13.7	13.5	13.6	13.8	13.8	13.8	14.0	14.6	16.2	18.3	19.9	20.0	19.4	17.9	16.2			
140	15.8	15.1	14.8	14.8	15.0	15.1	15.1	15.4	15.9	17.4	19.5	21.2	21.4	20.7	19.3	17.5			
145	17.0	16.4	16.1	16.0	16.2	16.4	16.5	16.7	17.1	18.3	20.3	22.0	22.3	21.5	20.2	18.6			
150	18.3	17.9	17.7	17.5	17.7	17.9	18.0	18.1	18.4	19.2	21.0	22.3	22.8	22.0	20.9	19.6			
155	19.6	19.2	19.1	19.0	19.3	19.4	19.4	19.4	19.6	20.1	21.5	22.5	23.0	22.2	21.5	20.5			
160	20.8	20.4	20.2	20.3	20.6	20.6	20.5	20.5	20.7	20.9	22.0	22.8	23.2	22.4	22.1	21.4			
165	21.9	21.5	21.4	21.4	21.7	21.7	21.6	21.7	21.8	21.8	22.6	23.2	23.4	22.8	22.7	22.3			
170	22.9	22.5	22.4	22.5	22.8	22.6	22.6	22.7	22.7	22.5	23.1	23.4	23.8	23.2	23.2	23.1			
175	23.4	23.1	23.1	23.2	23.5	23.3	23.3	23.4	23.5	23.2	23.6	23.8	24.1	23.7	23.8	23.7			
180	23.6	23.4	23.6	23.7	24.0	23.7	23.8	23.8	23.7	23.4	23.6	23.8	24.1	23.7	23.8	23.8			

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: