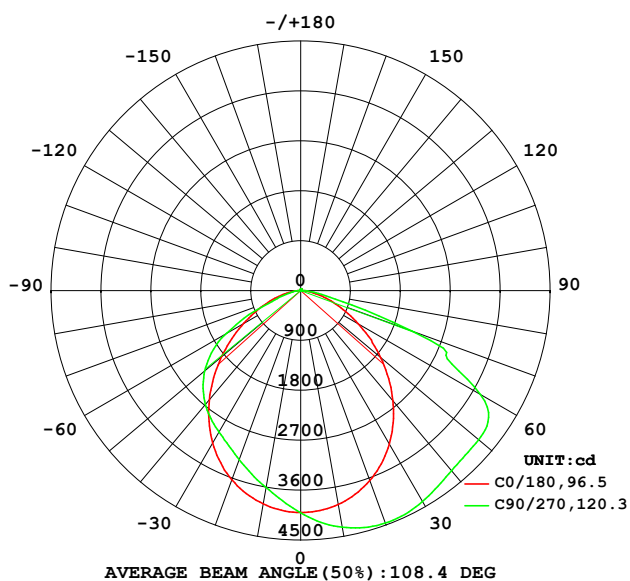
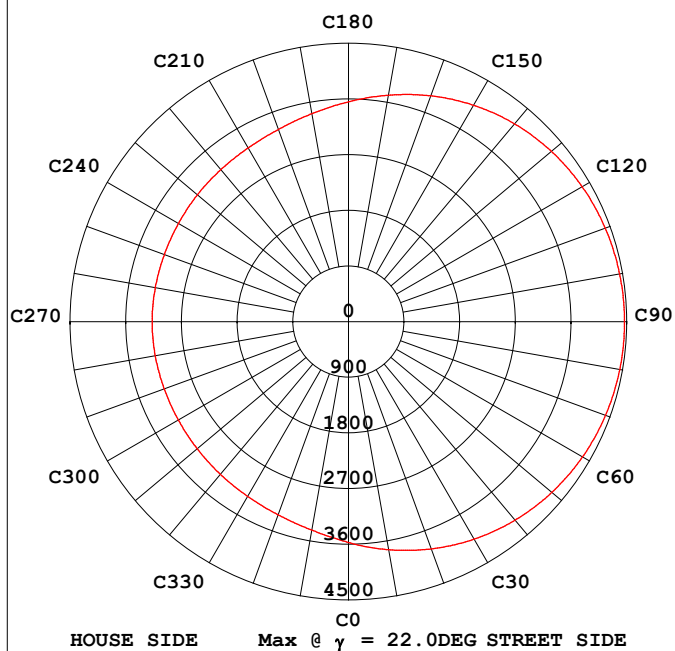


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.78V I:0.6494A P:77.540W PF:0.9968 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12365.5x1 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: 159.47 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	4463	η street_up (%)	0.3
NOMINAL POWER (W)	80	LOR (%)	100.0	η street_down (%)	61.4
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	12366	η house_up (%)	0.4
NOMINAL FLUX (lm)	12365.5	MAXIMUM @ (C, γ)	90, 22.0	η house_down (%)	37.9
LAMPS INSIDE	1	η up (%)	0.6	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.4	SLI	

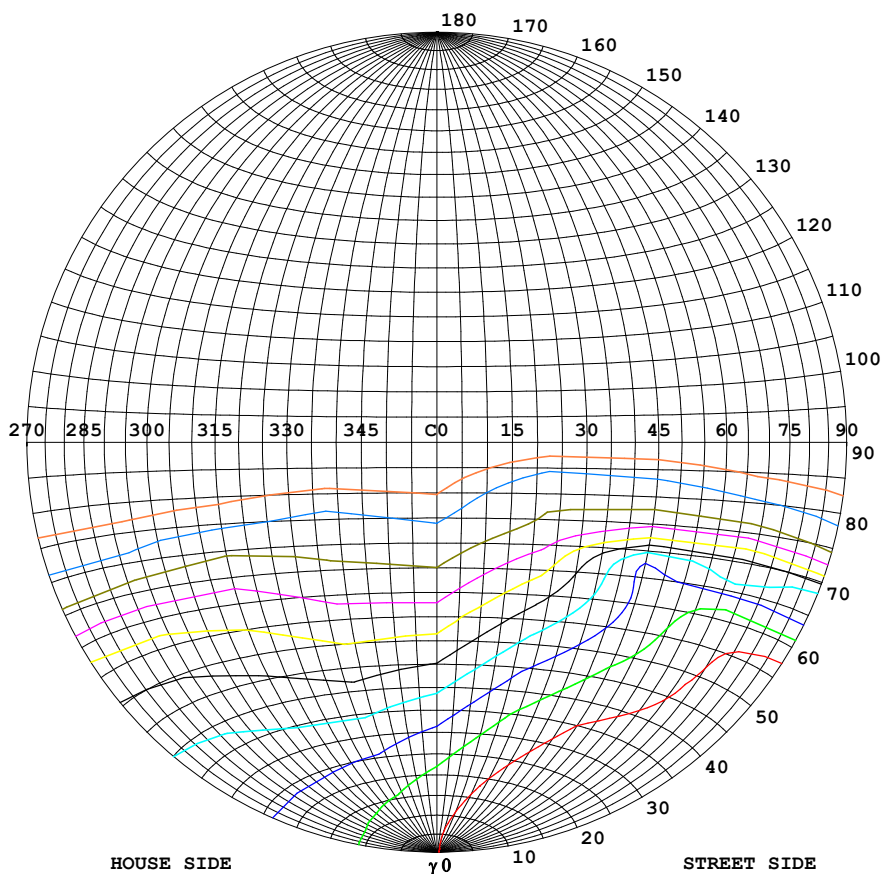
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:0.6494A P:77.540W PF:0.9968 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12365.5x1 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:



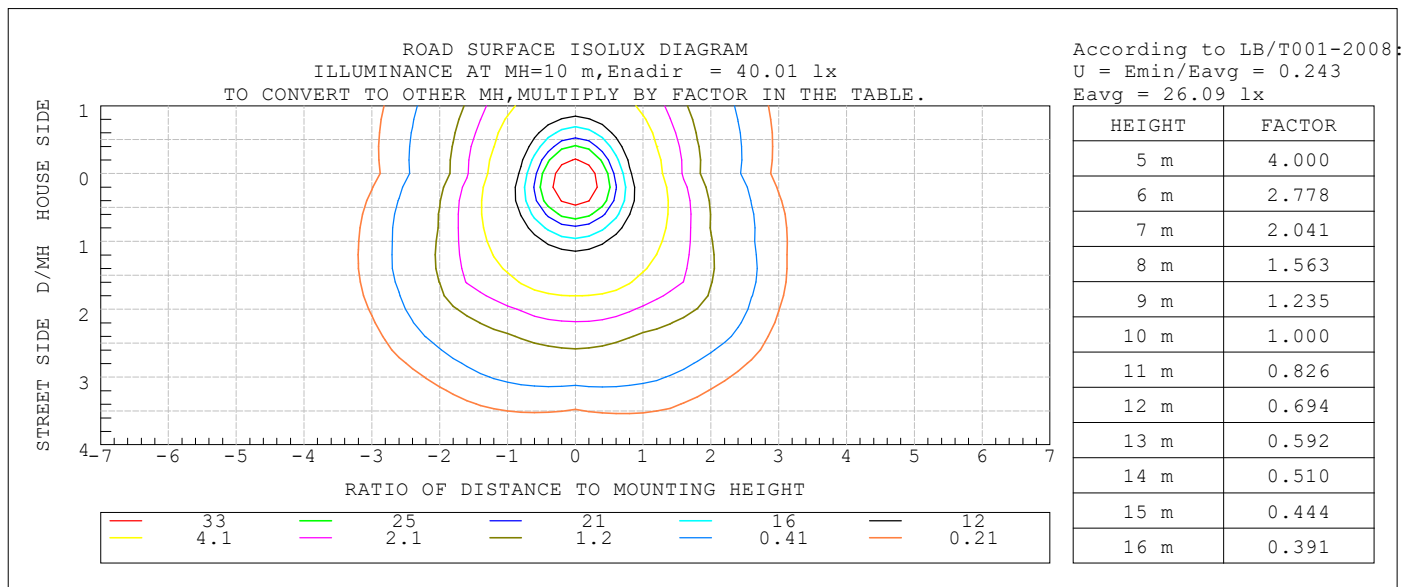
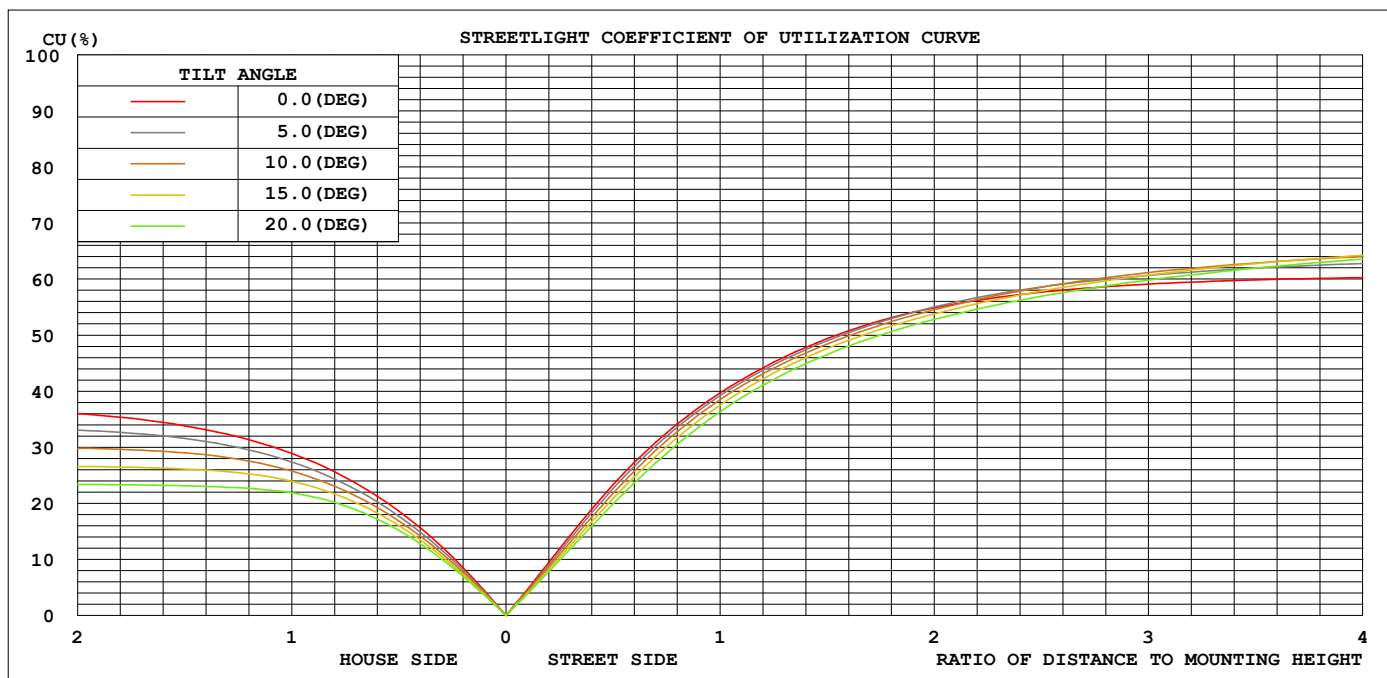
Classification:

IES:Type III - Very Short
CIE:Broad - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:60.21cd/klm
Max.At90:4.378cd/klm
Max.80-90:60.21cd/klm
NRB 5101:Limited[7.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4463
90%	4016
80%	3570
70%	3124
60%	2678
50%	2231
40%	1785
30%	1339
20%	893
10%	446
5%	223

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:0.6494A P:77.540W PF:0.9968 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:12365.5x1 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:		

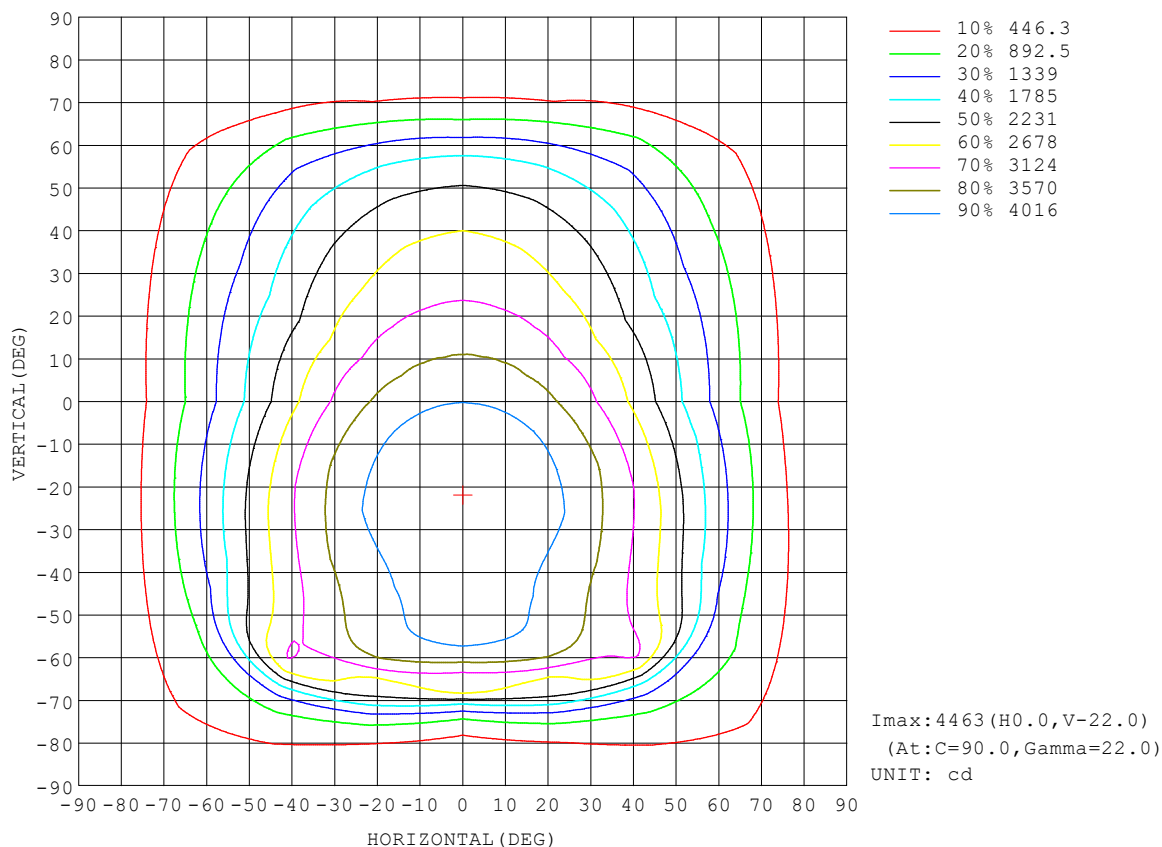
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	3916	4217	4333	4211	3906	3674	3605	3682	0- 10	379.3	379.3	3.07,3.07
20	3646	4257	4462	4245	3632	3283	3246	3290	10- 20	1091	1470	11.9,11.9
30	3197	4135	4394	4119	3175	2864	2947	2863	20- 30	1670	3141	25.4,25.4
40	2591	3857	4237	3838	2564	2478	2676	2463	30- 40	2059	5199	42,42
50	1888	3472	4188	3435	1868	2050	2261	2028	40- 50	2228	7428	60.1,60.1
60	1199	3196	3743	3104	1188	1527	1544	1508	50- 60	2171	9599	77.6,77.6
70	628.7	2589	2134	2771	630.8	803.2	498.4	807.5	60- 70	1724	11323	91.6,91.6
80	211.1	687.6	331.8	671.8	219.7	165.9	147.5	170.4	70- 80	776.4	12099	97.8,97.8
90	3.433	50.67	29.20	54.14	4.534	8.327	9.501	7.937	80- 90	185.8	12285	99.4,99.4
100	5.035	4.387	4.451	4.464	5.316	9.127	10.67	9.399	90-100	7.775	12293	99.4,99.4
110	7.596	6.506	6.909	6.657	7.956	12.04	14.15	12.34	100-110	8.402	12301	99.5,99.5
120	10.42	8.688	9.190	8.875	10.88	14.73	17.07	15.07	110-120	10.47	12312	99.6,99.6
130	13.28	11.11	11.34	11.40	13.71	17.82	19.70	17.79	120-130	11.82	12324	99.7,99.7
140	16.01	13.85	13.83	14.33	16.30	20.56	22.30	20.41	130-140	12.27	12336	99.8,99.8
150	18.44	16.82	16.71	17.26	18.86	22.30	24.17	22.23	140-150	11.53	12348	99.9,99.9
160	20.88	19.55	19.69	19.92	21.06	22.99	24.41	23.15	150-160	9.482	12357	99.9,99.9
170	23.02	22.05	22.37	22.37	22.91	23.64	24.52	23.87	160-170	6.279	12363	100,100
180	23.82	23.70	24.25	24.03	23.80	23.72	24.21	24.06	170-180	2.239	12366	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

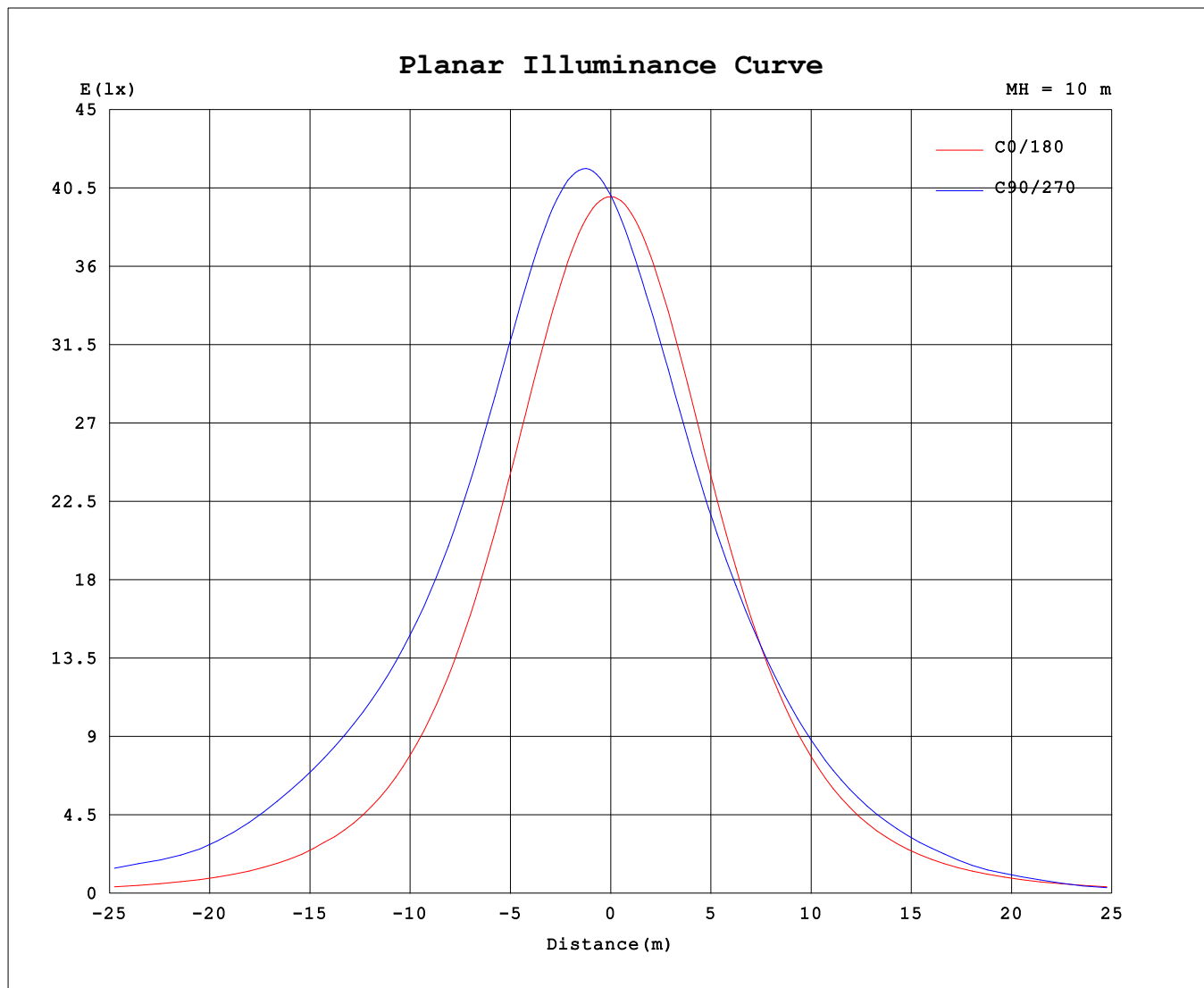
Test:U:119.78V I:0.6494A P:77.540W PF:0.9968 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12365.5x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



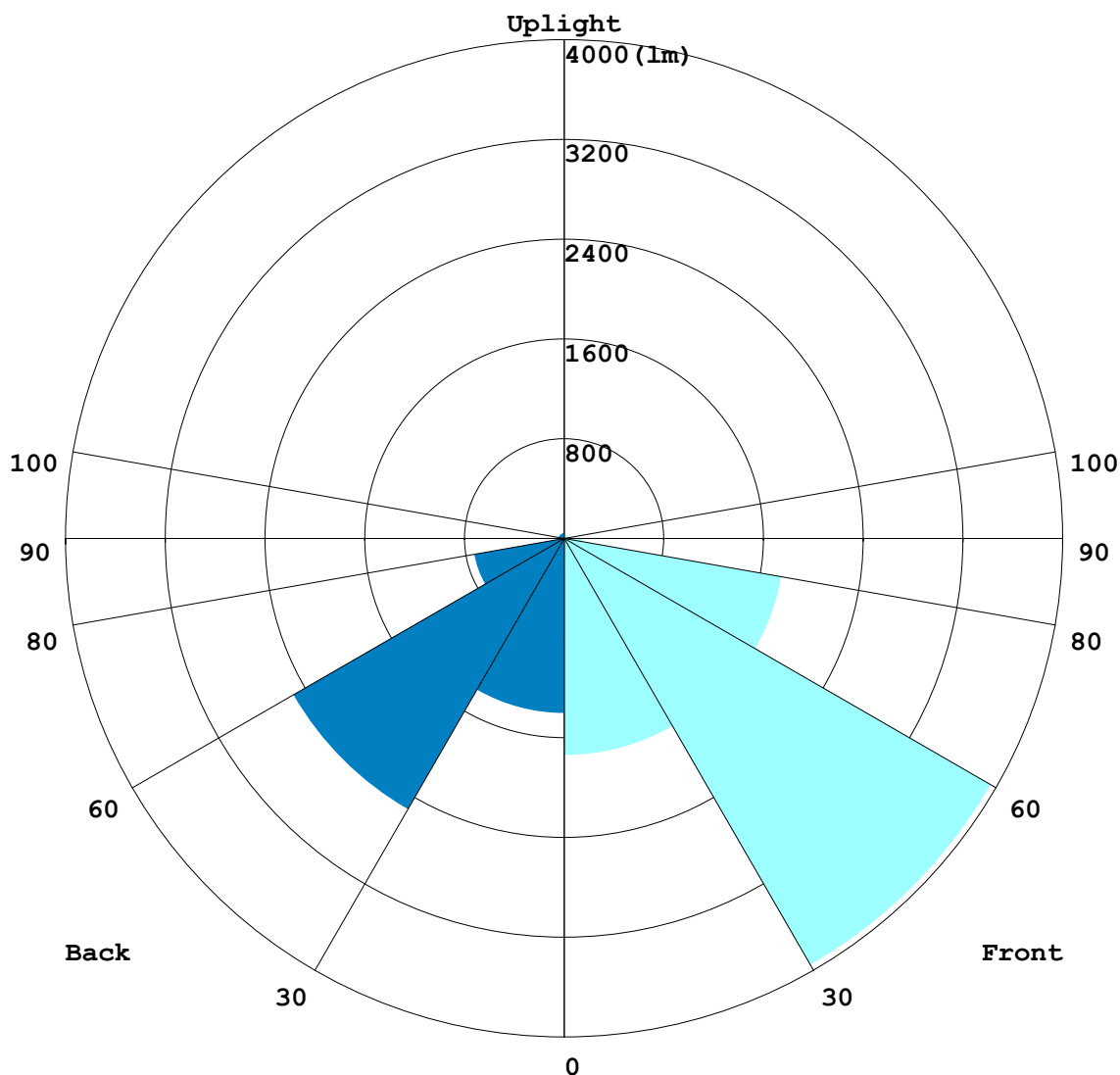
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:0.6494A P:77.540W PF:0.9968 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12365.5x1 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:119.78V I:0.6494A P:77.540W PF:0.9968 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12365.5x1 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)	1738.2	14.1
FM - Front-Medium(30-60)	3949.3	31.9
FH - Front-High(60-80)	1767.4	14.3
FVH - Front-Very High(80-90)	142.41	1.2
Total Forward Light	7631	61.7

BL - Back-Low(0-30)	1402.4	11.3
BM - Back-Medium(30-60)	2509.1	20.3
BH - Back-High(60-80)	732.97	5.9
BVH - Back-Very High(80-90)	43.401	0.4
Total Back Light	4734.5	38.3

UL - Uplight-Low(90-100)	7.7751	0.1
UH - Uplight-High(100-180)	72.493	0.6
Total Up Light	80.268	0.6

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4687.9	46.636	4734.5
Street Side	7597.4	33.631	7631

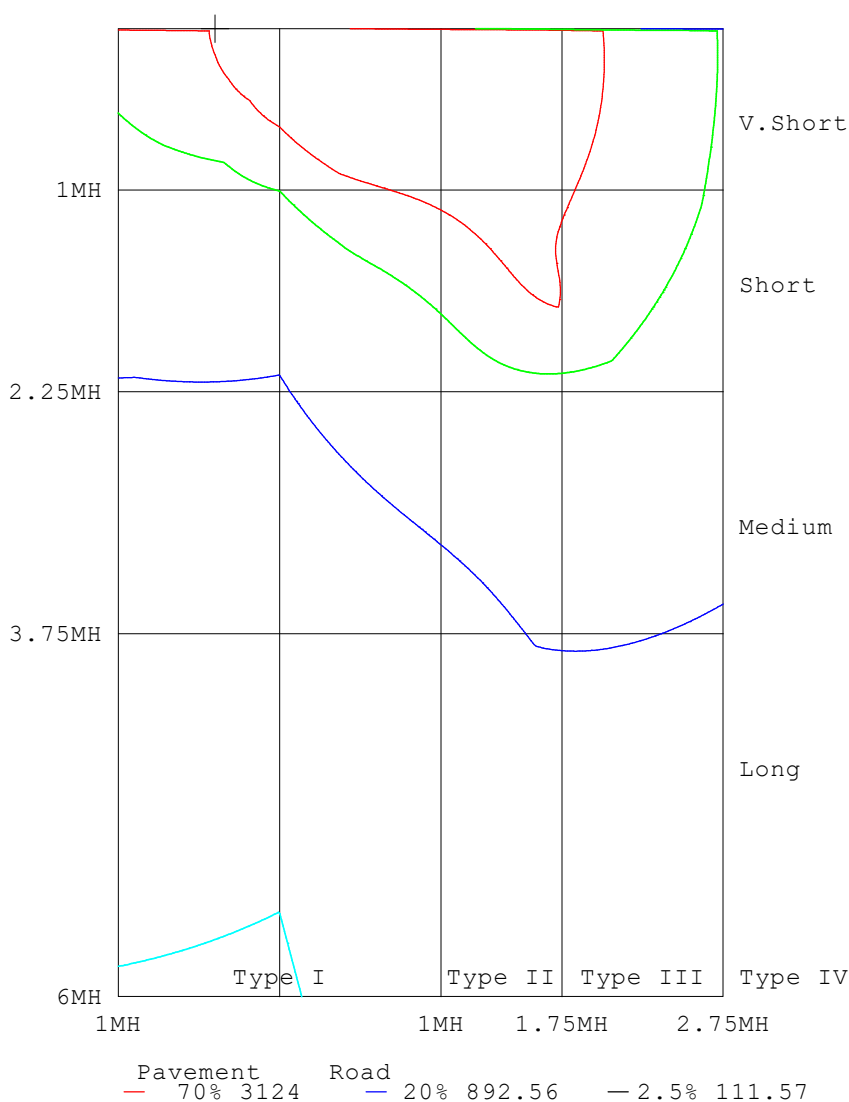
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:0.6494A P:77.540W PF:0.9968 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12365.5x1 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:119.78V I:0.6494A P:77.540W PF:0.9968 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12365.5x1 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	4001	4001	4005	4000	4008	4003	4008	4005	4001	4001	4005	4000	4008	4003	4008	4005			
5	3982	4059	4131	4174	4193	4173	4130	4060	3977	3903	3849	3810	3805	3813	3856	3911			
10	3916	4076	4217	4301	4333	4299	4211	4070	3906	3764	3674	3613	3605	3618	3682	3775			
15	3803	4051	4258	4381	4423	4378	4250	4040	3791	3588	3489	3427	3425	3431	3496	3605			
20	3646	3986	4257	4414	4462	4408	4245	3967	3632	3382	3283	3244	3246	3248	3290	3398			
25	3444	3880	4216	4398	4451	4393	4201	3855	3424	3149	3074	3065	3081	3065	3080	3162			
30	3197	3736	4135	4338	4394	4333	4119	3705	3175	2895	2864	2912	2947	2908	2863	2905			
35	2911	3559	4015	4242	4310	4234	3999	3520	2886	2621	2667	2773	2823	2766	2658	2628			
40	2591	3339	3857	4134	4237	4122	3838	3288	2564	2341	2478	2620	2676	2611	2463	2341			
45	2245	3081	3669	4049	4200	4029	3644	3023	2221	2068	2277	2432	2491	2421	2257	2057			
50	1888	2786	3472	4003	4188	3979	3435	2719	1868	1799	2050	2205	2261	2195	2028	1780			
55	1557	2453	3298	3979	4127	3956	3237	2378	1519	1533	1799	1931	1967	1923	1778	1509			
60	1199	2088	3196	3812	3743	3822	3104	2007	1188	1268	1527	1590	1544	1586	1508	1241			
65	894	1690	3236	2939	2920	2996	3135	1608	890	1011	1220	1091	1037	1091	1207	984			
70	629	1275	2589	2342	2134	2324	2771	1187	631	768	803	534	498	541	807	742			
75	401	938	1253	1156	790	1219	1300	804	407	534	376	299	279	300	386	515			
80	211	745	688	493	332	526	672	586	220	272	166	148	148	147	170	274			
85	65.7	397	330	196	144	209	325	328	76.3	76.8	65.1	71.7	73.4	70.5	62.5	75.7			
90	3.43	38.9	50.7	37.4	29.2	40.5	54.1	40.6	4.53	6.12	8.33	9.25	9.50	8.84	7.94	5.52			
95	3.95	3.29	3.45	3.44	3.40	3.49	3.52	3.43	4.21	5.84	7.62	8.73	8.78	8.91	7.91	6.13			
100	5.04	4.21	4.39	4.47	4.45	4.49	4.46	4.37	5.32	7.10	9.13	10.5	10.7	10.6	9.40	7.41			
105	6.27	5.24	5.43	5.61	5.65	5.66	5.53	5.43	6.59	8.46	10.6	12.2	12.6	12.3	10.9	8.76			
110	7.60	6.36	6.51	6.78	6.91	6.87	6.66	6.60	7.96	9.91	12.0	13.6	14.1	13.9	12.3	10.1			
115	8.98	7.56	7.58	7.88	8.09	8.01	7.75	7.81	9.40	11.4	13.4	15.1	15.6	15.3	13.7	11.5			
120	10.4	8.87	8.69	8.95	9.19	9.11	8.88	9.11	10.9	13.0	14.7	16.5	17.1	16.8	15.1	12.9			
125	11.9	10.2	9.87	10.0	10.3	10.2	10.1	10.5	12.3	14.5	16.2	17.9	18.3	18.1	16.5	14.3			
130	13.3	11.7	11.1	11.2	11.3	11.4	11.4	12.0	13.7	15.9	17.8	19.4	19.7	19.3	17.8	15.7			
135	14.7	13.1	12.4	12.3	12.5	12.7	12.9	13.5	15.0	17.3	19.3	20.8	20.9	20.5	19.0	17.0			
140	16.0	14.6	13.8	13.6	13.8	14.0	14.3	14.9	16.3	18.4	20.6	22.2	22.3	21.7	20.4	18.4			
145	17.2	15.9	15.2	14.9	15.1	15.4	15.7	16.2	17.6	19.4	21.5	23.2	23.4	22.7	21.4	19.5			
150	18.4	17.4	16.8	16.5	16.7	17.0	17.3	17.7	18.9	20.3	22.3	23.8	24.2	23.3	22.2	20.5			
155	19.7	18.8	18.3	18.0	18.3	18.5	18.7	19.0	20.0	21.0	22.7	24.0	24.4	23.6	22.8	21.3			
160	20.9	20.0	19.5	19.4	19.7	19.8	19.9	20.2	21.1	21.7	23.0	24.1	24.4	23.6	23.2	22.1			
165	22.0	21.2	20.8	20.7	21.0	21.1	21.2	21.5	22.1	22.4	23.3	24.1	24.4	23.8	23.6	22.9			
170	23.0	22.3	22.0	21.9	22.4	22.3	22.4	22.7	22.9	23.0	23.6	24.2	24.5	23.9	23.9	23.5			
175	23.6	23.1	23.0	23.0	23.4	23.2	23.2	23.5	23.6	23.5	23.9	24.2	24.6	24.2	24.2	24.1			
180	23.8	23.5	23.7	23.8	24.2	23.9	24.0	24.1	23.8	23.6	23.7	23.9	24.2	24.0	24.1	24.1			

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: