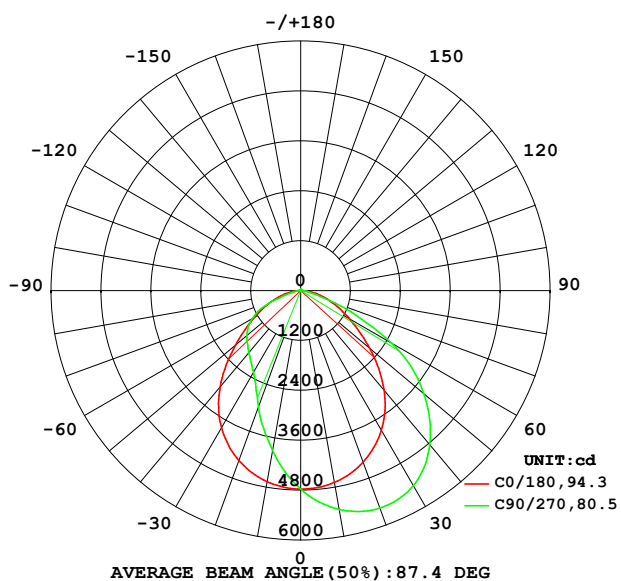
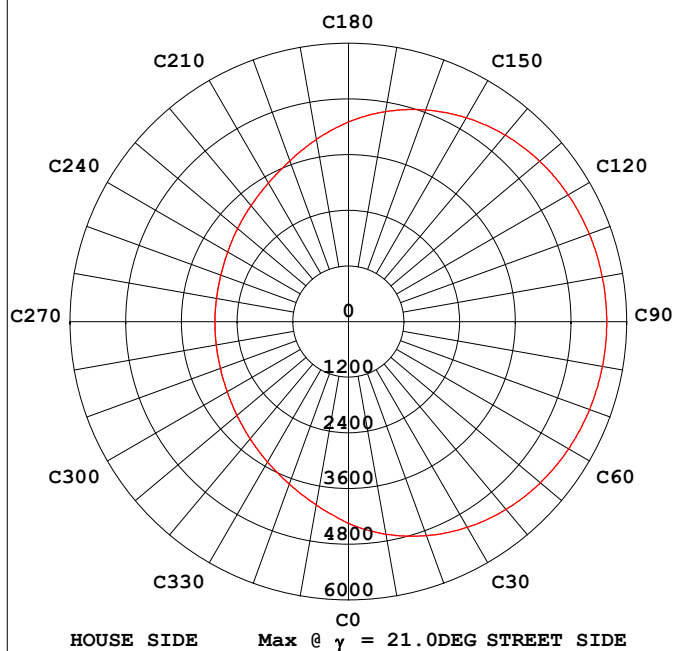


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:119.79V I:0.6507A P:77.712W PF:0.9969 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12541.6x1 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: 161.38 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	5567	η street_up (%)	0.3
NOMINAL POWER (W)	80	LOR (%)	100.0	η street_down (%)	65.5
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	12542	η house_up (%)	0.4
NOMINAL FLUX (lm)	12541.6	MAXIMUM @ (C, γ)	90, 21.0	η house_down (%)	33.9
LAMPS INSIDE	1	η up (%)	0.7	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	99.3	SLI	

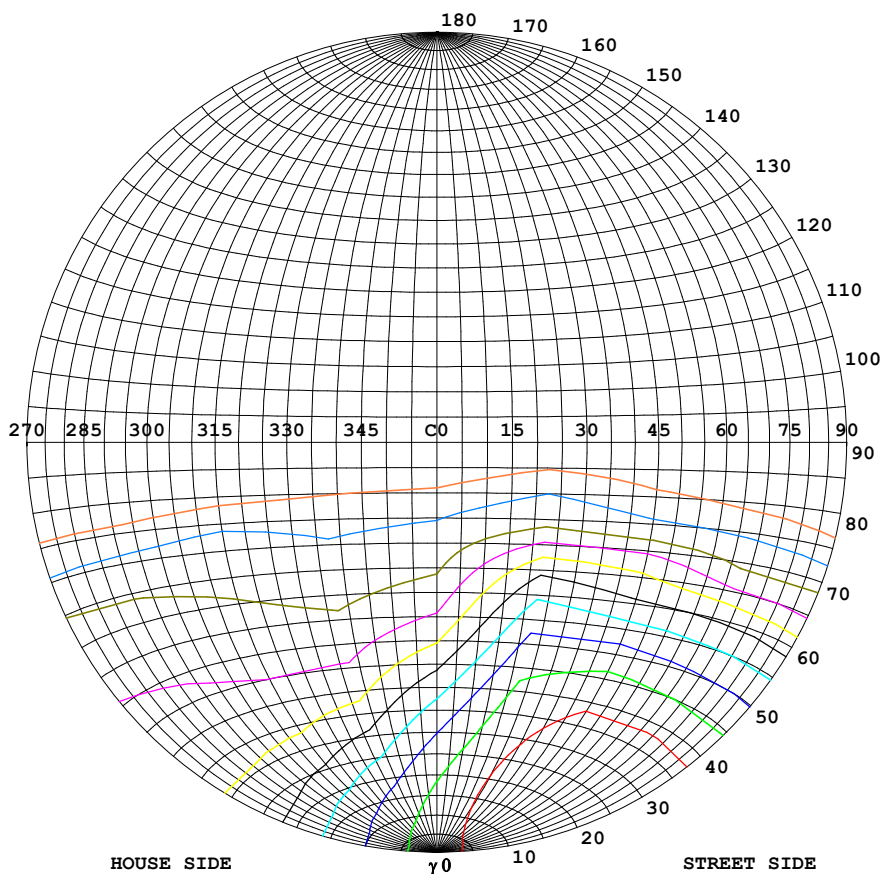
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:119.79V I:0.6507A P:77.712W PF:0.9969 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12541.6x1 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:

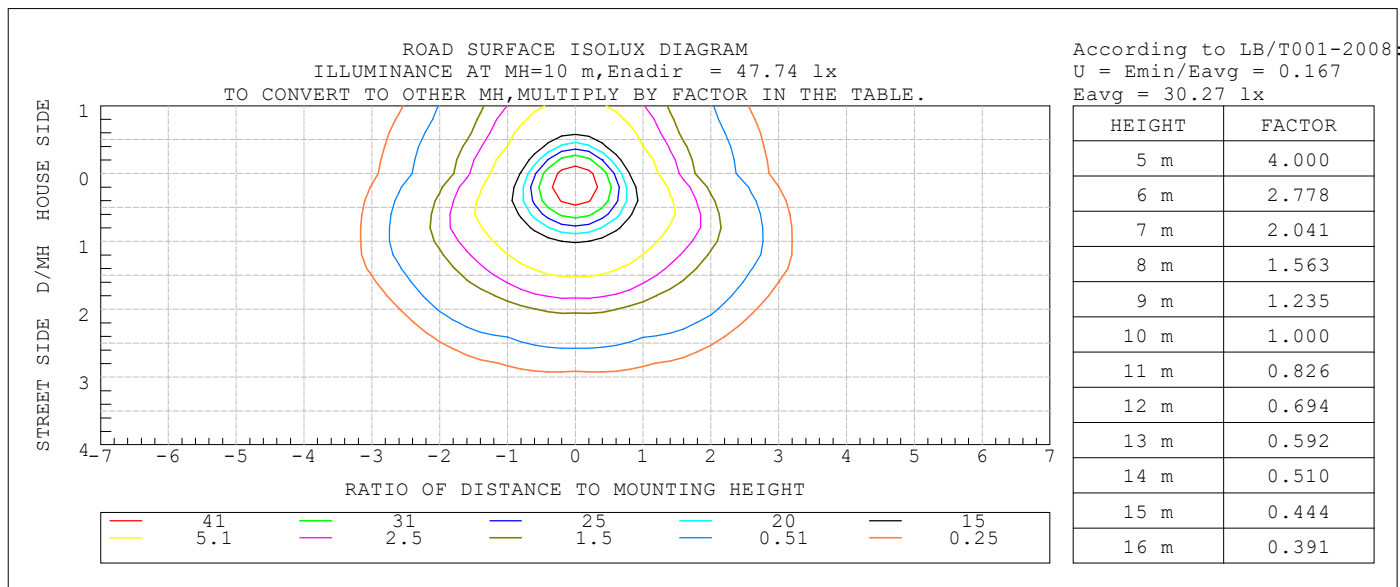
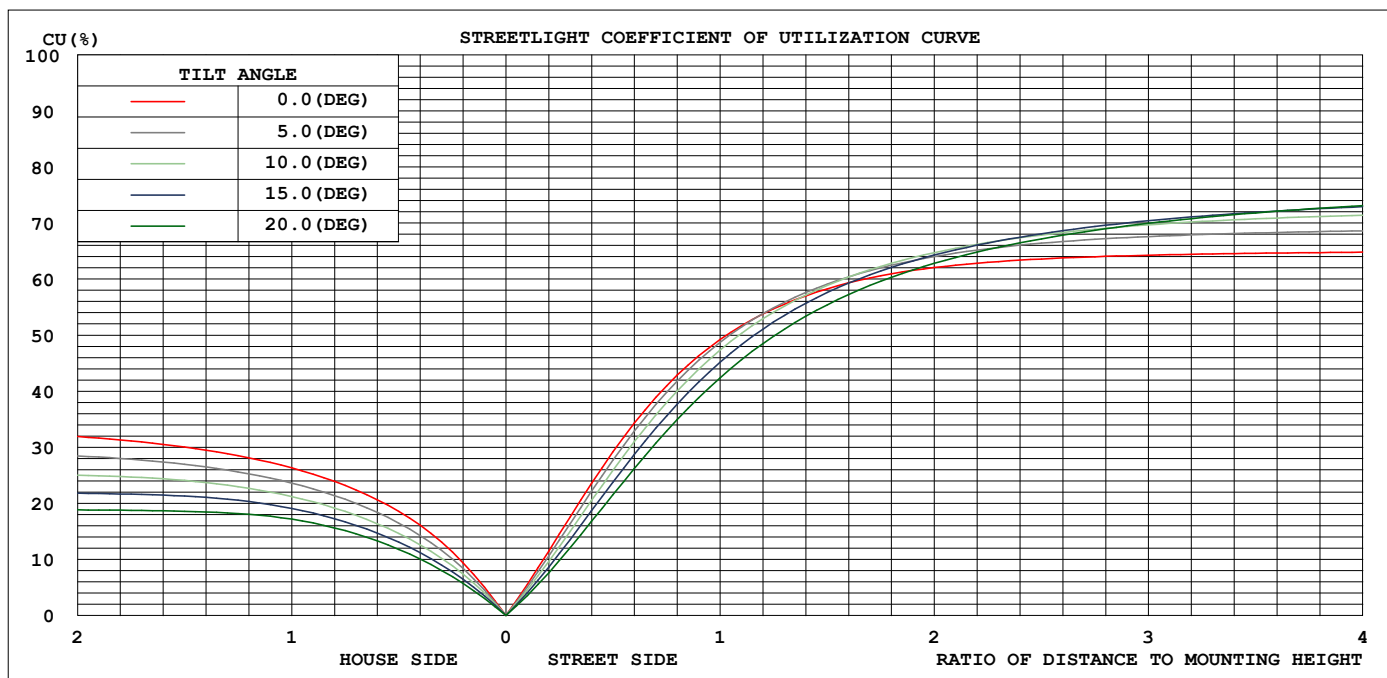
IES:Type II - Very Short
CIE:Narrow - Short
IES:Cut-off
CIE:Semi-cut-off
Max.At80:44.12cd/klm
Max.At90:2.003cd/klm
Max.80-90:44.12cd/klm
NRB 5101:Limited[5.8%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5567
90%	5010
80%	4454
70%	3897
60%	3340
50%	2783
40%	2227
30%	1670
20%	1113
10%	557
5%	278

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:0.6507A P:77.712W PF:0.9969 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:12541.6x1 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:		

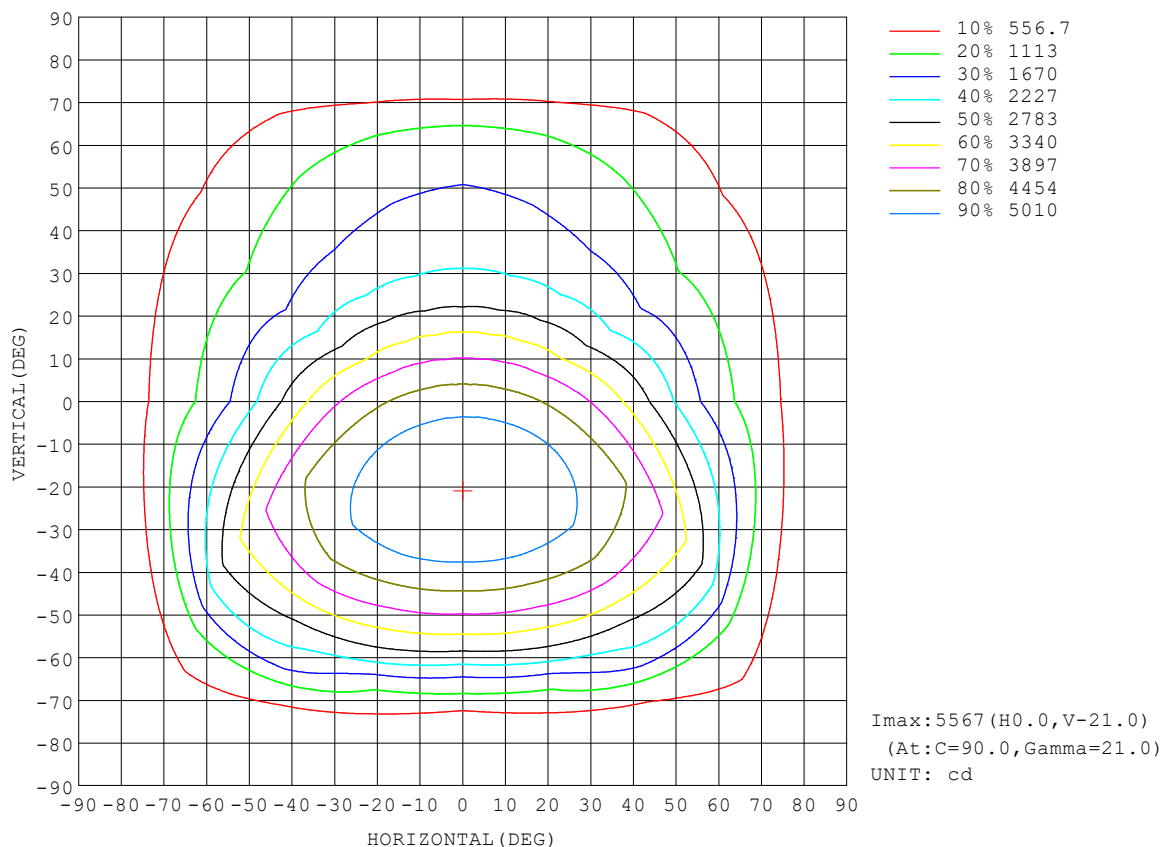
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4683	5176	5344	5155	4665	4122	3903	4133	0- 10	449.2	449.2	3.58,3.58
20	4391	5344	5565	5320	4348	3279	2979	3301	10- 20	1268	1718	13.7,13.7
30	3880	5280	5418	5261	3809	2432	2274	2455	20- 30	1884	3601	28.7,28.7
40	3125	4914	4831	4912	3012	1881	1942	1879	30- 40	2251	5852	46.7,46.7
50	2176	4124	3872	4148	2057	1494	1691	1478	40- 50	2331	8183	65.2,65.2
60	1351	2892	2524	2905	1275	1163	1341	1141	50- 60	2084	10267	81.9,81.9
70	769.1	1562	869.3	1664	720.9	771.4	616.9	758.4	60- 70	1468	11735	93.6,93.6
80	319.5	331.1	165.2	336.9	288.7	193.9	134.0	200.0	70- 80	592.8	12328	98.3,98.3
90	4.045	23.68	16.67	24.63	4.901	7.100	6.447	6.758	80- 90	131.1	12459	99.3,99.3
100	5.844	3.768	3.980	3.840	6.040	9.053	8.046	9.077	90-100	6.354	12466	99.4,99.4
110	8.757	5.382	5.698	5.573	8.945	12.98	12.48	13.05	100-110	8.077	12474	99.5,99.5
120	12.01	7.402	7.358	7.681	12.25	16.40	16.83	16.76	110-120	10.48	12484	99.5,99.5
130	15.37	10.11	9.543	10.55	15.65	19.68	20.65	20.13	120-130	12.19	12496	99.6,99.6
140	18.62	13.53	12.56	13.94	18.82	22.65	23.89	22.97	130-140	12.94	12509	99.7,99.7
150	21.24	17.10	16.13	17.40	21.59	25.30	26.70	25.40	140-150	12.42	12522	99.8,99.8
160	23.75	20.51	20.01	20.70	24.00	26.74	28.13	26.82	150-160	10.42	12532	99.9,99.9
170	25.98	23.91	24.00	24.24	25.90	27.31	28.43	27.55	160-170	7.009	12539	100,100
180	26.78	26.61	27.24	27.06	26.78	26.62	27.29	27.07	170-180	2.514	12542	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

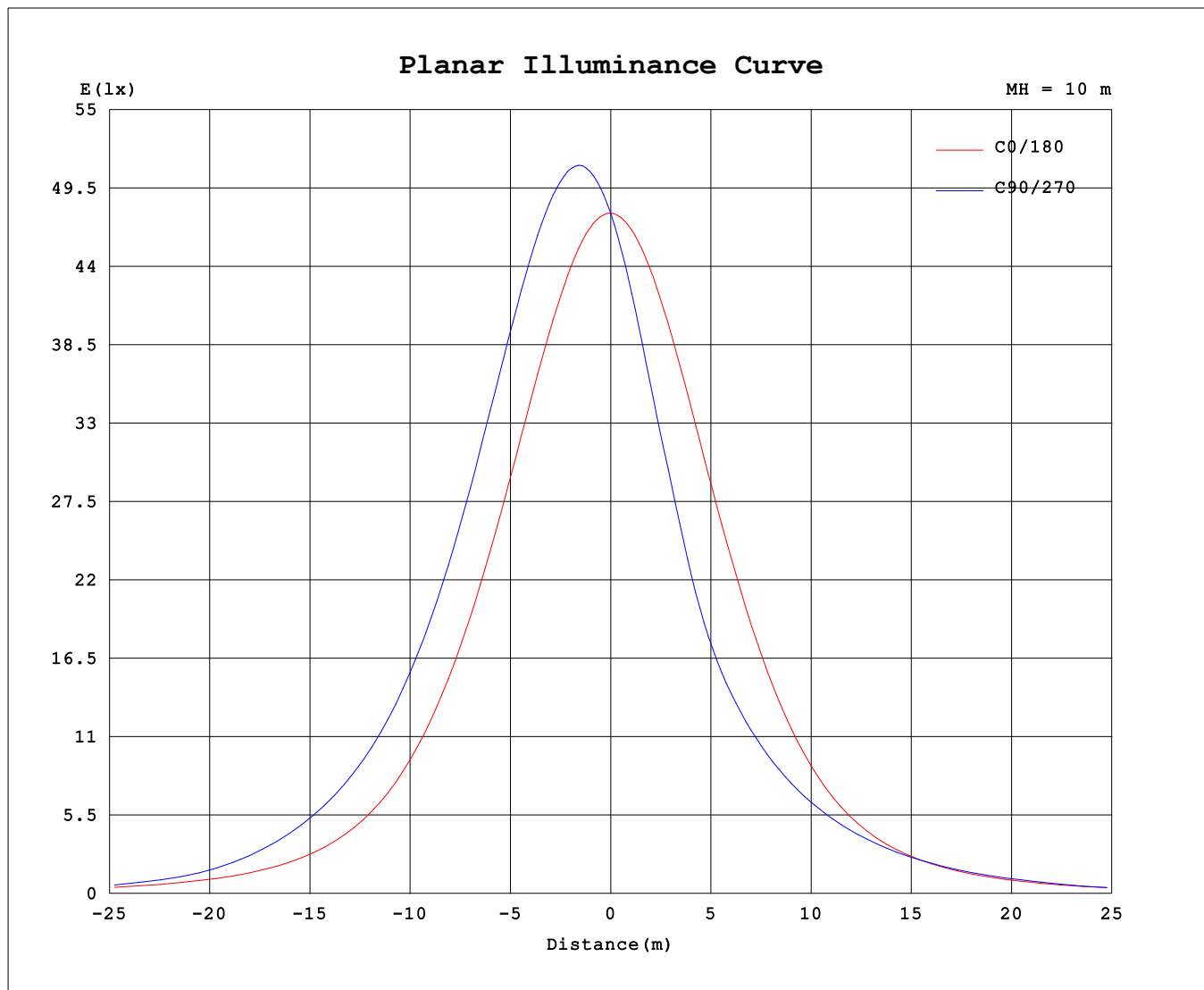
Test:U:119.79V I:0.6507A P:77.712W PF:0.9969 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12541.6x1 lm		
Name: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	Type: 80W	Weight:
SPEC.: 4000K	DIM.: 0-10V	Instrument No.: HUP-IES1-LAB
MFR.:	SUR.: 0.28*0.16	shielding angle:



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



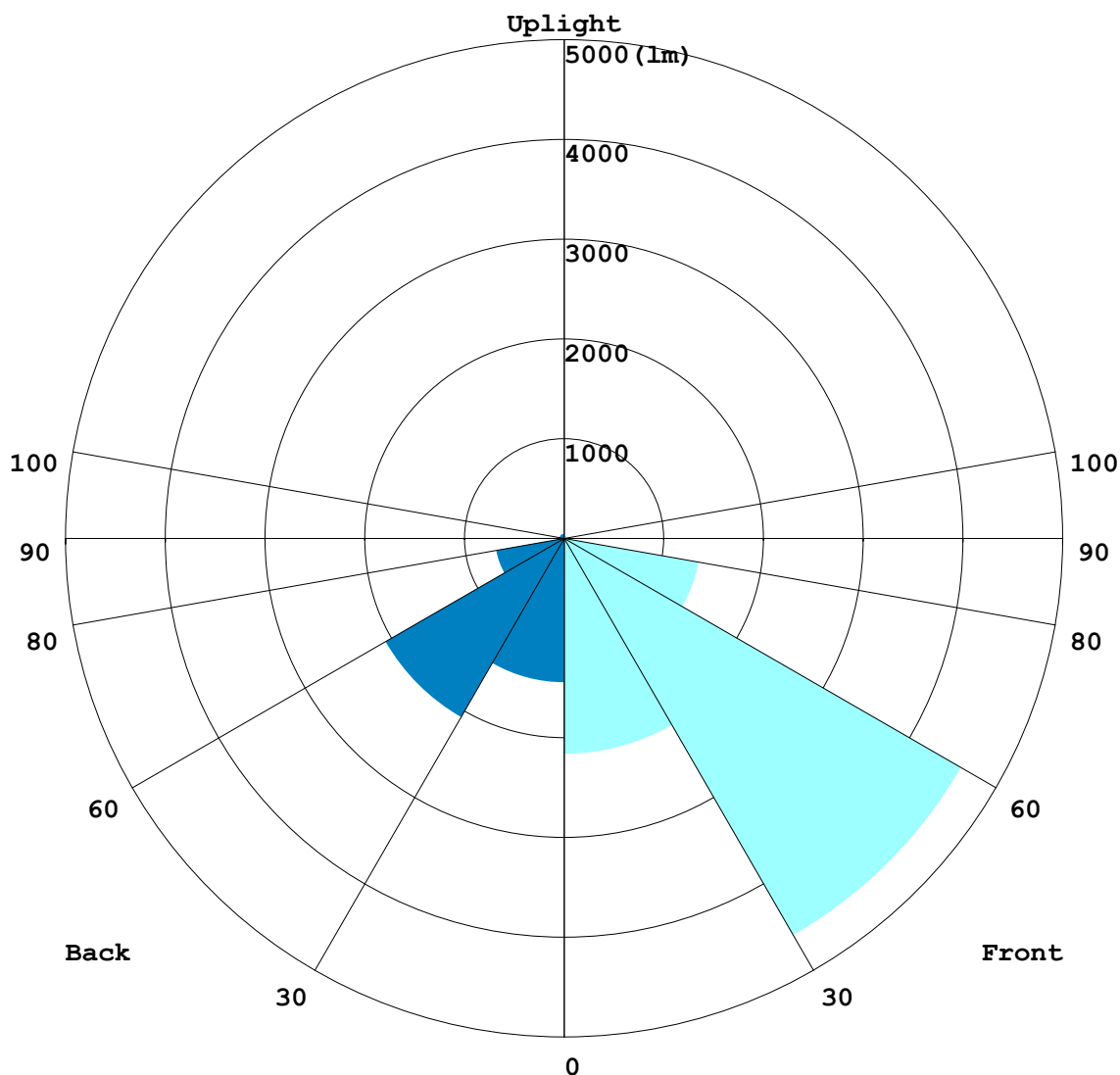
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: MA NENG
 Test Date: 2026-07-25

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:119.79V I:0.6507A P:77.712W PF:0.9969 Freq:60.04Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12541.6x1 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:119.79V I:0.6507A P:77.712W PF:0.9969 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12541.6x1 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)	2159.5	17.2
FM - Front-Medium(30-60)	4595.8	36.6
FH - Front-High(60-80)	1368.6	10.9
FVH - Front-Very High(80-90)	86.375	0.7
Total Forward Light	8242.6	65.7

BL - Back-Low(0-30)	1441.8	11.5
BM - Back-Medium(30-60)	2070	16.5
BH - Back-High(60-80)	692.45	5.5
BVH - Back-Very High(80-90)	44.707	0.4
Total Back Light	4299	34.3

UL - Uplight-Low(90-100)	6.3541	0.1
UH - Uplight-High(100-180)	76.052	0.6
Total Up Light	82.406	0.7

BUG(Back,Up,Glare) Rating	B3-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4248.9	50.026	4299
Street Side	8210.2	32.381	8242.6

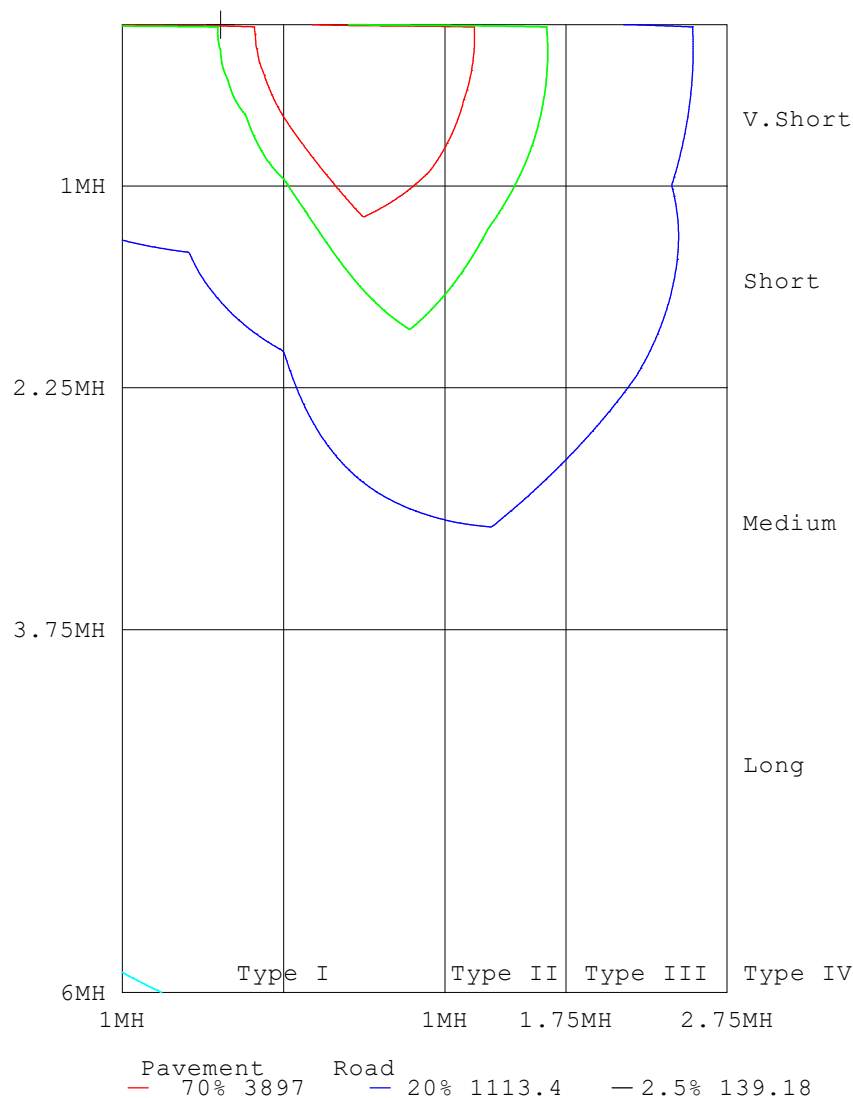
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:MA NENG
Test Date:2026-07-25

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:0.6507A P:77.712W PF:0.9969 Freq:60.04Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:12541.6x1 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:119.79V I:0.6507A P:77.712W PF:0.9969 Freq:60.04Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:12541.6x1 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	4774	4769	4775	4765	4773	4761	4768	4762	4774	4769	4775	4765	4773	4761	4768	4762			
5	4754	4889	5002	5067	5097	5061	4990	4869	4744	4597	4481	4388	4371	4390	4483	4599			
10	4683	4959	5176	5300	5344	5291	5155	4929	4665	4366	4122	3945	3903	3951	4133	4378			
15	4563	4987	5291	5449	5497	5438	5266	4948	4534	4070	3707	3484	3442	3494	3724	4095			
20	4391	4972	5344	5517	5565	5509	5320	4925	4348	3707	3279	3042	2979	3053	3301	3743			
25	4166	4921	5342	5505	5542	5501	5320	4863	4109	3293	2845	2599	2556	2610	2872	3336			
30	3880	4831	5280	5406	5418	5404	5261	4767	3809	2858	2432	2287	2274	2292	2455	2904			
35	3536	4707	5144	5199	5179	5201	5132	4637	3443	2421	2121	2077	2091	2076	2132	2467			
40	3125	4542	4914	4876	4831	4884	4912	4468	3012	2035	1881	1909	1942	1903	1879	2070			
45	2660	4323	4579	4455	4391	4466	4590	4250	2535	1716	1676	1764	1814	1755	1667	1736			
50	2176	4046	4124	3948	3872	3962	4148	3977	2057	1442	1494	1631	1691	1620	1478	1451			
55	1728	3698	3544	3374	3278	3386	3571	3643	1630	1199	1328	1484	1540	1473	1308	1197			
60	1351	3251	2892	2718	2524	2742	2905	3226	1275	981	1163	1306	1341	1296	1141	972			
65	1037	2638	2307	1775	1593	1816	2300	2673	978	788	985	1073	1086	1065	965	773			
70	769	1773	1562	1000	869	1007	1664	1870	721	612	771	690	617	699	758	595			
75	535	905	629	486	351	507	684	944	493	449	457	342	314	345	467	431			
80	320	553	331	225	165	236	337	503	289	275	194	142	134	144	200	267			
85	115	263	155	96.7	75.9	101	158	239	101	87.5	60.9	58.4	57.8	58.1	60.0	86.7			
90	4.05	24.3	23.7	20.0	16.7	20.8	24.6	25.1	4.90	6.27	7.10	6.47	6.45	6.33	6.76	5.85			
95	4.58	3.21	3.05	3.16	3.19	3.18	3.09	3.43	4.80	6.54	7.14	6.46	6.02	6.55	7.17	6.69			
100	5.84	4.08	3.77	3.93	3.98	3.96	3.84	4.36	6.04	8.07	9.05	8.48	8.05	8.58	9.08	8.24			
105	7.25	5.11	4.53	4.75	4.85	4.82	4.68	5.44	7.42	9.68	11.0	10.7	10.3	10.8	11.1	9.88			
110	8.76	6.30	5.38	5.56	5.70	5.66	5.57	6.66	8.95	11.3	13.0	12.8	12.5	13.0	13.1	11.5			
115	10.3	7.62	6.33	6.36	6.51	6.50	6.55	7.97	10.6	12.8	14.7	14.9	14.7	15.2	14.9	13.1			
120	12.0	9.09	7.40	7.24	7.36	7.41	7.68	9.43	12.3	14.4	16.4	16.9	16.8	17.2	16.8	14.7			
125	13.7	10.7	8.66	8.28	8.36	8.49	9.02	11.0	13.9	16.0	18.1	18.8	18.8	19.2	18.5	16.2			
130	15.4	12.3	10.1	9.45	9.54	9.81	10.6	12.6	15.7	17.6	19.7	20.6	20.7	20.9	20.1	17.8			
135	17.1	14.1	11.8	10.9	11.0	11.3	12.2	14.3	17.3	19.2	21.2	22.3	22.3	22.5	21.5	19.3			
140	18.6	15.7	13.5	12.5	12.6	13.0	13.9	15.8	18.8	20.8	22.7	23.9	23.9	23.9	23.0	20.8			
145	19.9	17.3	15.3	14.2	14.2	14.7	15.6	17.3	20.3	22.2	24.0	25.3	25.4	25.2	24.2	22.2			
150	21.2	18.9	17.1	16.1	16.1	16.6	17.4	18.8	21.6	23.5	25.3	26.5	26.7	26.3	25.4	23.4			
155	22.6	20.4	18.9	18.0	18.1	18.5	19.1	20.4	22.9	24.4	26.2	27.3	27.6	27.0	26.2	24.5			
160	23.7	21.8	20.5	19.9	20.0	20.3	20.7	21.8	24.0	25.2	26.7	27.8	28.1	27.4	26.8	25.4			
165	24.9	23.3	22.2	21.7	22.0	22.1	22.5	23.4	25.0	25.9	27.1	28.1	28.3	27.7	27.3	26.3			
170	26.0	24.6	23.9	23.6	24.0	23.9	24.2	25.0	25.9	26.3	27.3	28.0	28.4	27.8	27.5	26.8			
175	26.6	25.7	25.3	25.3	25.7	25.5	25.7	26.2	26.6	26.7	27.3	27.8	28.2	27.8	27.7	27.3			
180	26.8	26.4	26.6	26.8	27.2	26.9	27.1	27.2	26.8	26.5	26.6	26.8	27.3	26.9	27.1	27.2			

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: