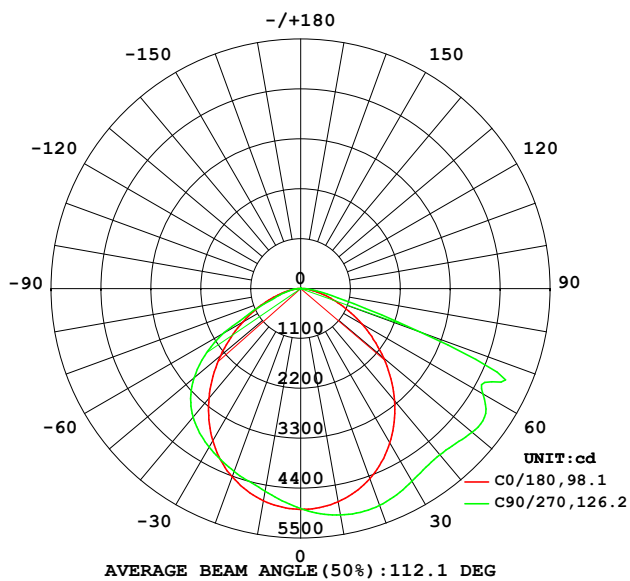
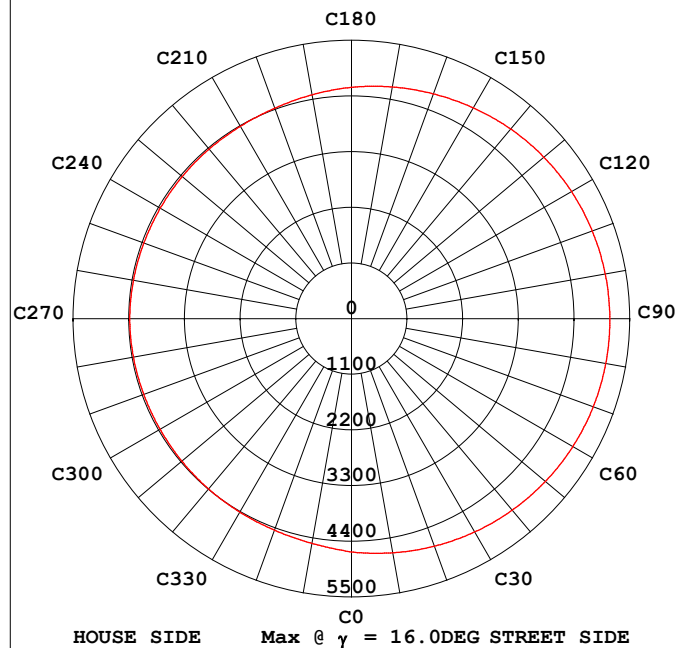


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:120.36V I:0.9804A P:117.67W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15103.8x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 3000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 128.35 lm/W			
RENO-CWP-MW-DV-MCCT-ABA-G2-R2		Imax (cd)	5104	η street_up (%)	0.0
NOMINAL POWER (W)	120	LOR (%)	100.0	η street_down (%)	59.1
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	15104	η house_up (%)	0.0
NOMINAL FLUX (lm)	15103.8	MAXIMUM @ (C, γ)	90, 16.0	η house_down (%)	40.9
LAMPS INSIDE	1	η up (%)	0.0	76 FLASHAREA (m2)	
TEST VOLTAGE (V)	120	η down (%)	100.0	SLI	

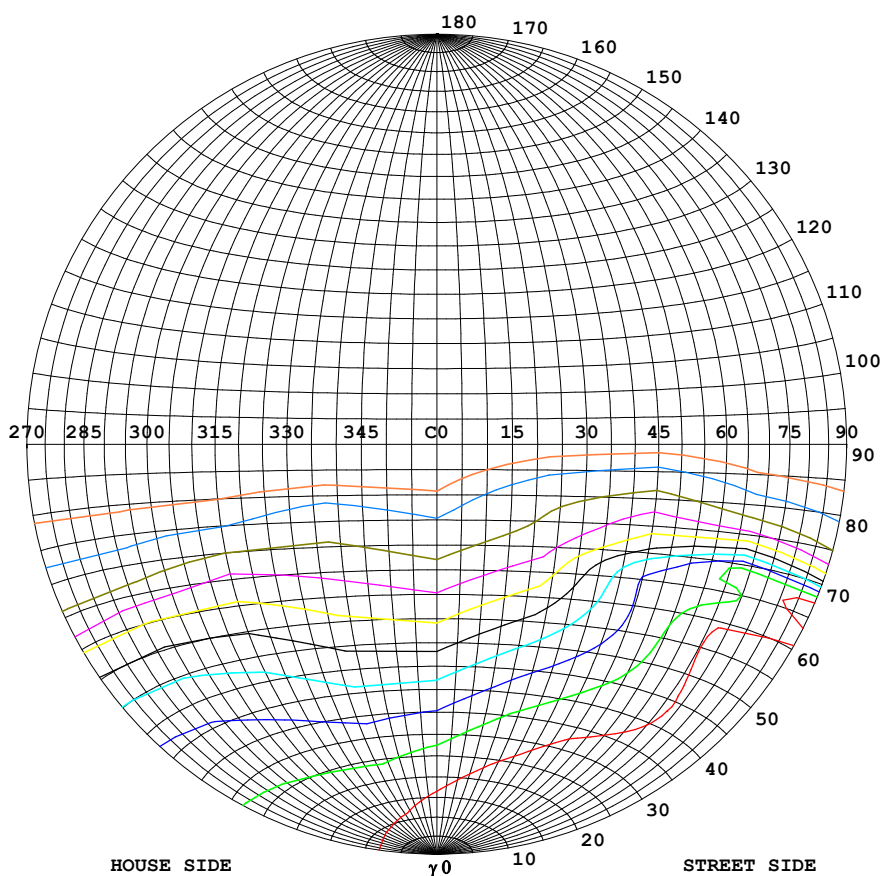
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 2026-07-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.740m [K=1.0000]
Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:120.36V I:0.9804A P:117.67W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15103.8x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 3000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:



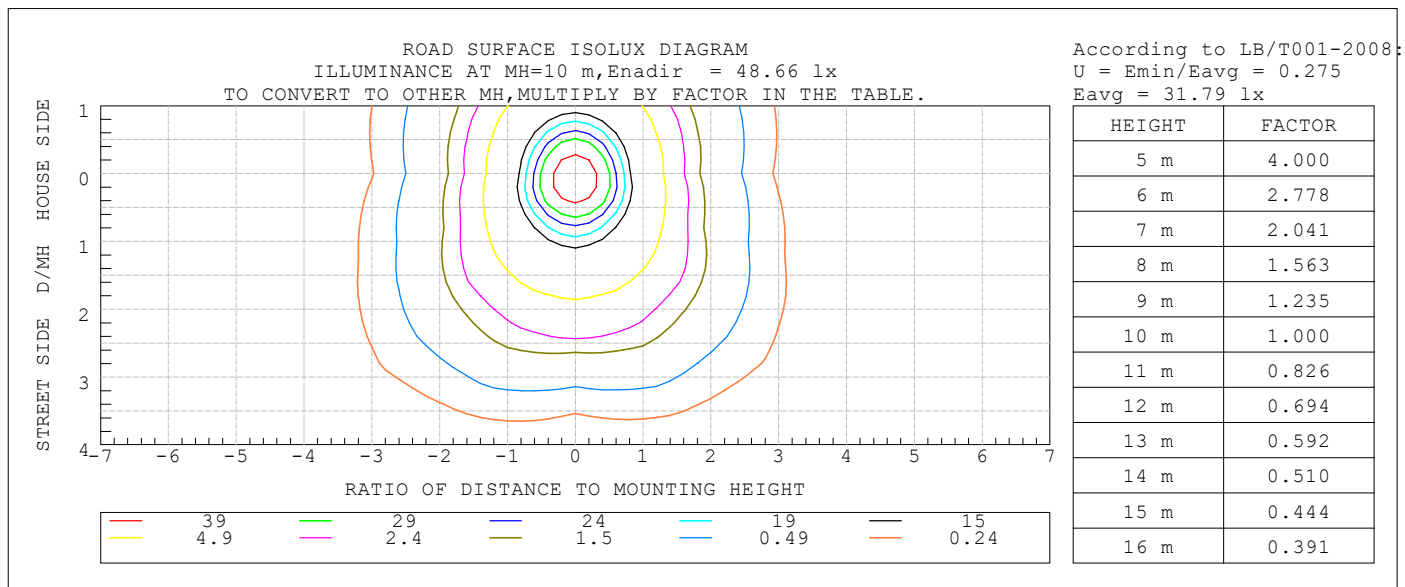
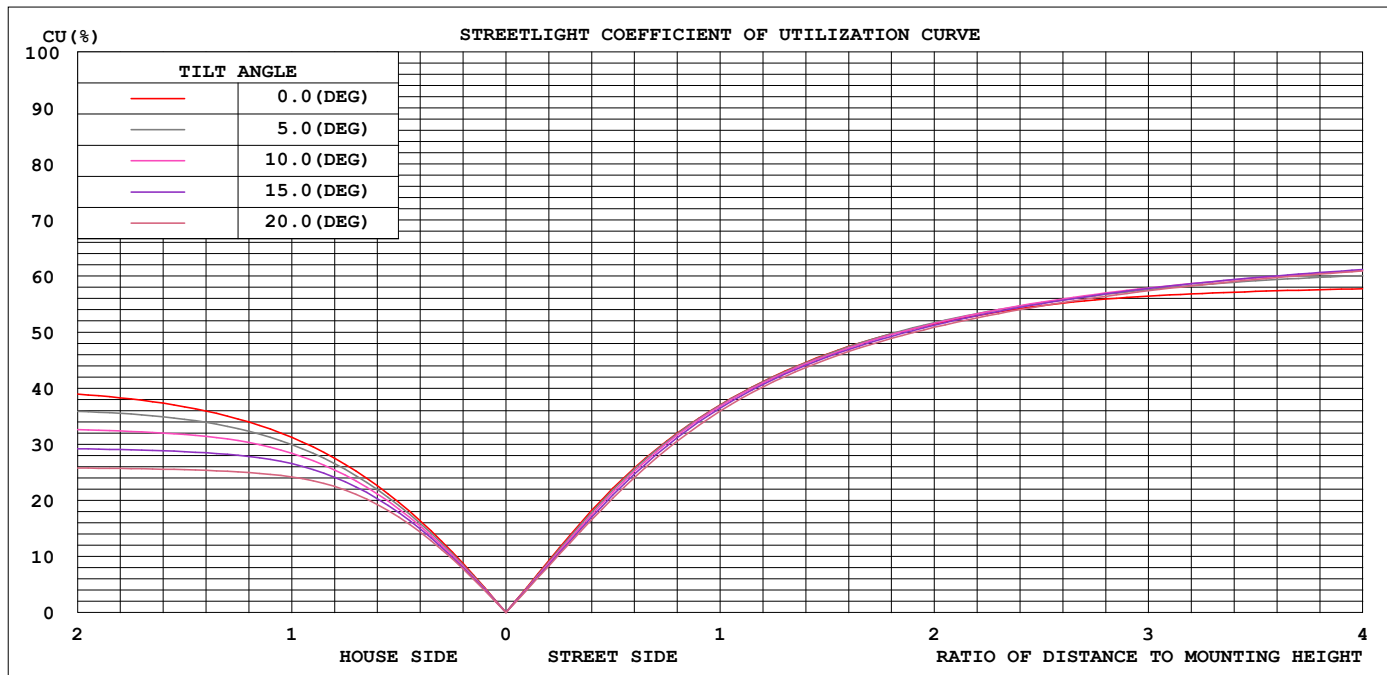
Classification:

IES:Type IV - Very Short
CIE:Broad - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:80.99cd/klm
Max.At90:0cd/klm
Max.80-90:80.99cd/klm
NRB 5101:Limited[8.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5104
90%	4594
80%	4084
70%	3573
60%	3063
50%	2552
40%	2042
30%	1531
20%	1021
10%	510
5%	255

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [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: DAMIN
Test Date: 2026-07-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.740m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:120.36V I:0.9804A P:117.67W PF:1.0236 Freq:60.01Hz			UTHDi:0.00% ITHDi:0.00% KDisp:0			Lamp Flux:15103.8x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2			TYPE: 120W			WEIGHT:		
SPEC.: 3000K			DIM.: 0-10V			SERIAL No.:		
MFR.:			SUR.: 0.28*0.16			Shielding Angle:		

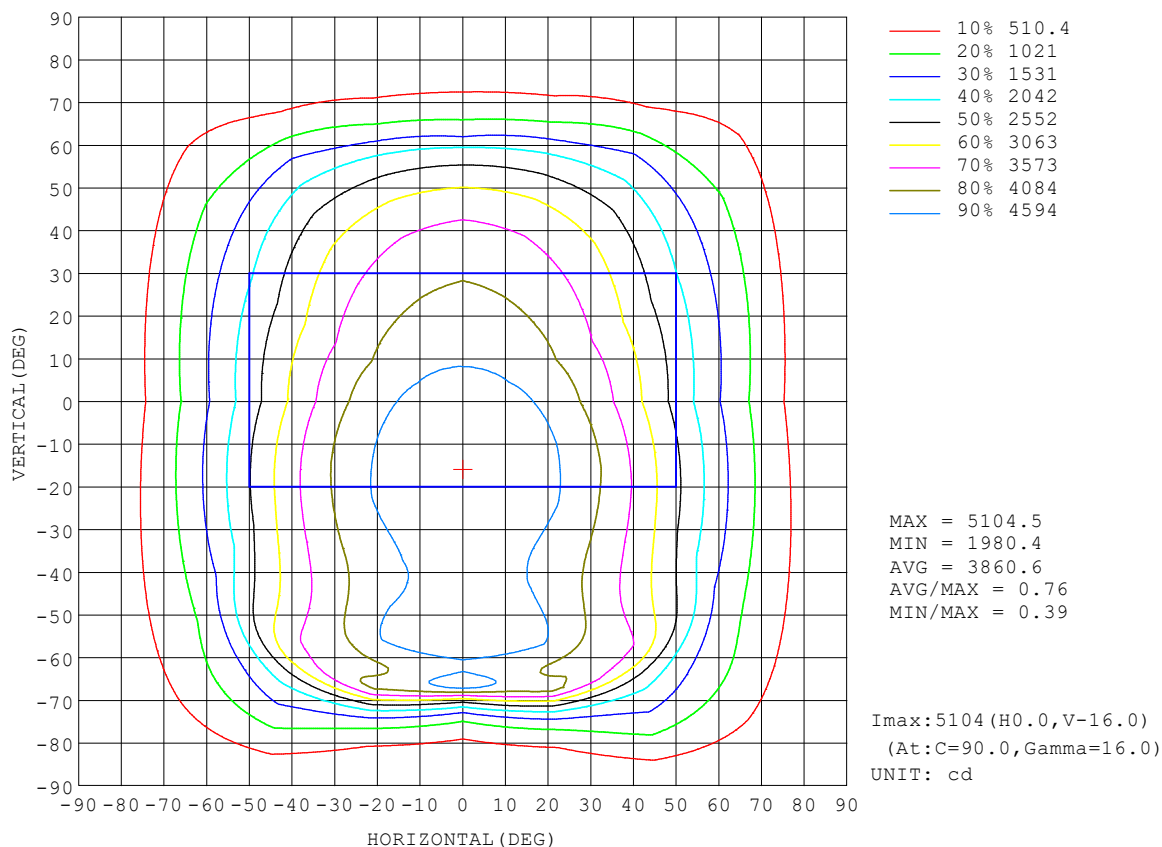
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	4770	4989	5065	4952	4747	4576	4534	4579	0- 10	459.5	459.5	3.04,3.04
20	4459	4929	5087	4881	4414	4237	4291	4252	10- 20	1323	1783	11.8,11.8
30	3932	4682	4905	4623	3876	3845	4036	3863	20- 30	2032	3815	25.3,25.3
40	3221	4273	4780	4201	3144	3387	3692	3418	30- 40	2506	6321	41.9,41.9
50	2394	3823	4929	3738	2310	2817	3071	2866	40- 50	2719	9040	59.9,59.9
60	1557	3598	4637	3521	1472	2041	1946	2113	50- 60	2647	11687	77.4,77.4
70	821.9	2727	2810	2545	756.7	895.9	621.0	1018	60- 70	2158	13845	91.7,91.7
80	284.3	1223	440.5	1069	241.7	212.7	227.2	250.2	70- 80	1004	14849	98.3,98.3
90	0	0	0	0	0	0	0	0	80- 90	254.5	15104	100,100
100	0	0	0	0	0	0	0	0	90-100	0	15104	100,100
110	0	0	0	0	0	0	0	0	100-110	0	15104	100,100
120	0	0	0	0	0	0	0	0	110-120	0	15104	100,100
130	0	0	0	0	0	0	0	0	120-130	0	15104	100,100
140	0	0	0	0	0	0	0	0	130-140	0	15104	100,100
150	0	0	0	0	0	0	0	0	140-150	0	15104	100,100
160	0	0	0	0	0	0	0	0	150-160	0	15104	100,100
170	0	0	0	0	0	0	0	0	160-170	0	15104	100,100
180	0	0	0	0	0	0	0	0	170-180	0	15104	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

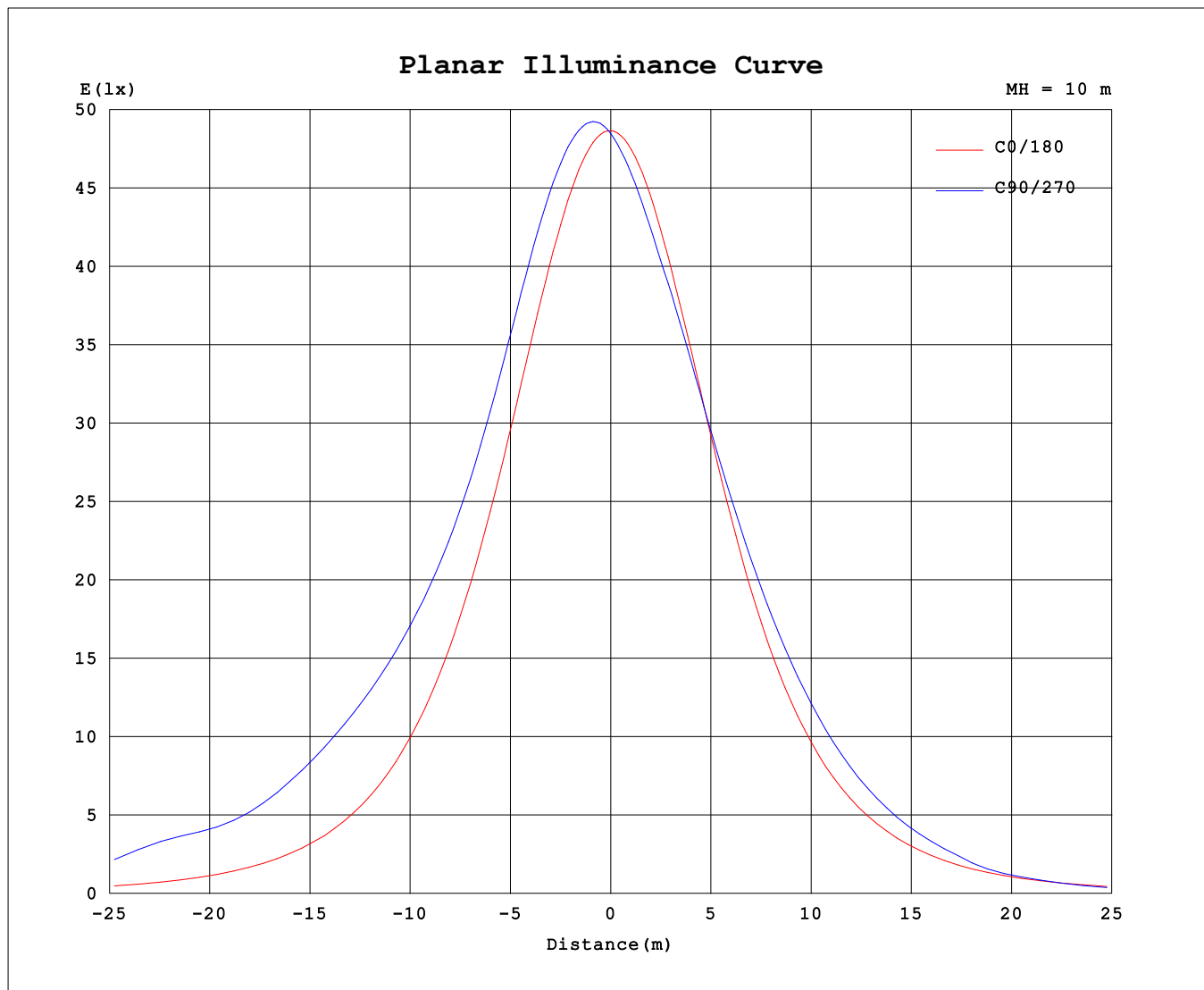
Test:U:120.36V I:0.9804A P:117.67W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15103.8x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 3000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks:

Planar Illuminance Curve

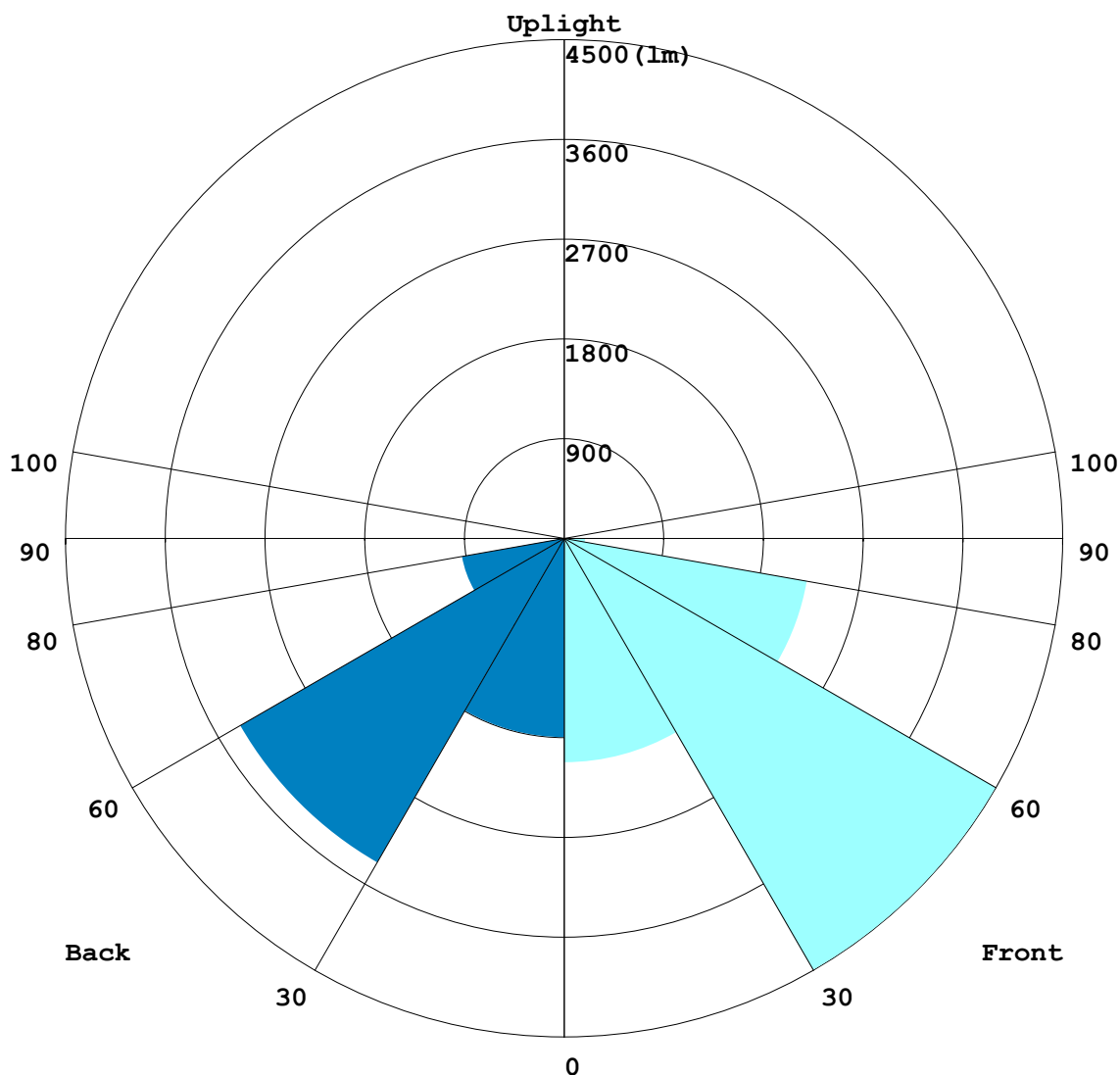


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: DAMIN
Test Date: 2026-07-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 9.740m [K=1.0000]
Remarks:

LCS REPORT

Test:U:120.36V I:0.9804A P:117.67W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15103.8x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 3000K	DIM.: 0-10V	SERIAL No.:
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°C
 Operators: DAMIN
 Test Date: 2026-07-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 9.740m [K=1.0000]
 Remarks:

BUG REPORT

Test:U:120.36V I:0.9804A P:117.67W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15103.8x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 3000K	DIM.: 0-10V	SERIAL No.:
MFR.:	SUR.: 0.28*0.16	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	2021	13.4
FM - Front-Medium(30-60)	4496	29.8
FH - Front-High(60-80)	2224.4	14.7
FVH - Front-Very High(80-90)	190.7	1.3
Total Forward Light	8932	59.1

BL - Back-Low(0-30)	1793.7	11.9
BM - Back-Medium(30-60)	3376.6	22.4
BH - Back-High(60-80)	937.69	6.2
BVH - Back-Very High(80-90)	63.791	0.4
Total Back Light	6171.8	40.9

UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B3-U0-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	6171.8	0	6171.8
Street Side	8932	0	8932

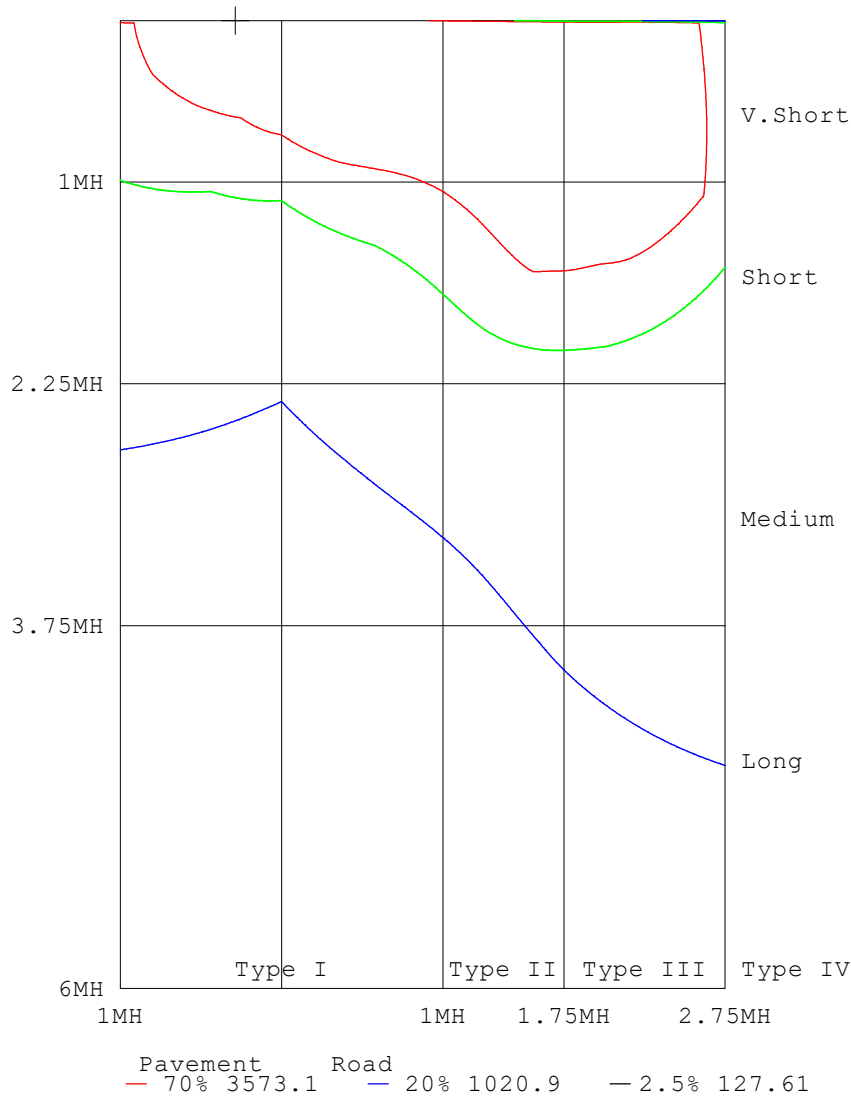
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:120.36V I:0.9804A P:117.67W PF:1.0236 Freq:60.01Hz UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15103.8x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 3000K	DIM.: 0-10V	SERIAL No.:
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:DAMIN
Test Date:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.36V I:0.9804A P:117.67W PF:1.0236 Freq:60.01Hz		
UTHDi:0.00% ITHDi:0.00% KDisp:0 Lamp Flux:15103.8x1 lm		
NAME: RENO-CWP-MW-DV-MCCT-ABA-G2-R2	TYPE: 120W	WEIGHT:
SPEC.: 3000K	DIM.: 0-10V	SERIAL No.:
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	4866	4863	4862	4854	4849	4843	4843	4842	4866	4863	4862	4854	4849	4843	4843	4842			
5	4847	4903	4950	4974	4981	4960	4922	4871	4833	4776	4733	4702	4693	4697	4727	4769			
10	4770	4889	4989	5051	5065	5032	4952	4847	4747	4638	4576	4542	4534	4542	4579	4644			
15	4641	4823	4983	5080	5103	5057	4941	4769	4605	4458	4404	4395	4401	4397	4416	4477			
20	4459	4713	4929	5057	5087	5030	4881	4647	4414	4239	4237	4254	4291	4258	4252	4268			
25	4221	4552	4826	4979	5013	4952	4772	4476	4175	3988	4047	4114	4168	4118	4064	4025			
30	3932	4354	4682	4858	4905	4830	4623	4273	3876	3716	3845	3964	4036	3970	3863	3757			
35	3596	4108	4493	4723	4810	4691	4429	4010	3529	3416	3625	3794	3885	3806	3648	3462			
40	3221	3814	4273	4622	4780	4585	4201	3702	3144	3097	3387	3594	3692	3613	3418	3150			
45	2816	3475	4037	4590	4834	4549	3961	3350	2735	2761	3123	3338	3433	3362	3163	2819			
50	2394	3093	3823	4631	4929	4588	3738	2955	2310	2414	2817	3000	3071	3030	2866	2476			
55	1961	2677	3662	4686	4949	4648	3575	2531	1884	2059	2460	2560	2588	2599	2520	2127			
60	1557	2237	3598	4511	4637	4451	3521	2085	1472	1711	2041	2008	1946	2054	2113	1783			
65	1168	1791	3597	3989	4875	3970	3504	1635	1092	1356	1556	1198	1148	1250	1639	1429			
70	822	1374	2727	3852	2810	3665	2545	1218	757	1011	896	633	621	668	1018	1085			
75	526	1073	1852	1694	1013	1616	1680	935	472	674	435	387	387	412	494	747			
80	284	823	1223	697	440	666	1069	660	242	306	213	215	227	226	250	394			
85	107	438	596	273	189	254	490	319	78.4	92.4	94.0	118	127	127	111	134			
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:DAMIN
Test Date:2026-07-02

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:9.740m [K=1.0000]
Remarks: