

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979491

Luminaire Tested: PRLX-240-935-LL8-C-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-935-LL8-C-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

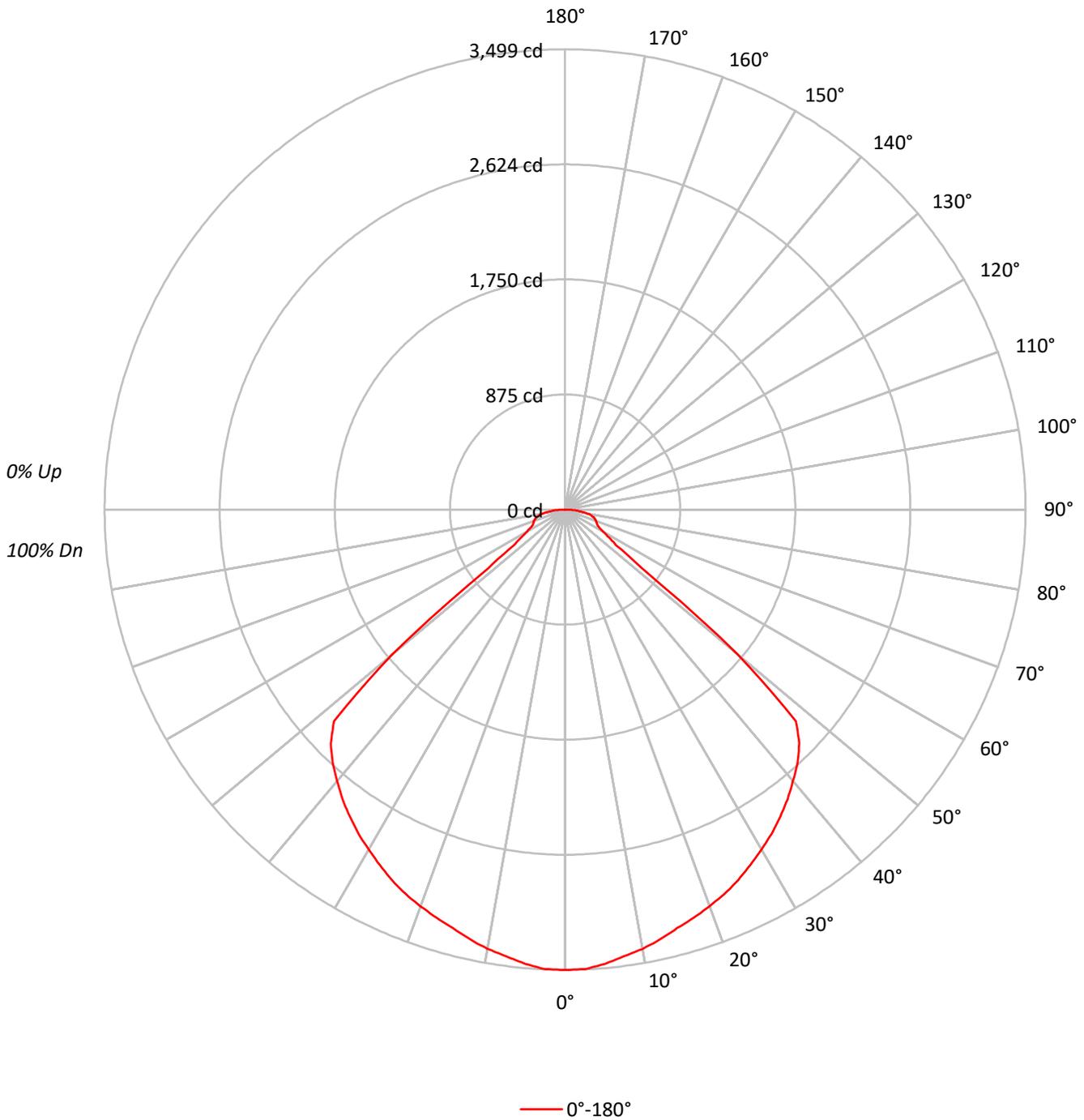
Lumens per Lamp: N/A
Luminaire Lumens: 7531.4 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.43
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88			88	
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			77	
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68			68	
4	88	78	70	64	86	77	70	64	74	68	63	72	67	62	70	65	62	60			60	
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53			53	
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47	
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42			42	
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38			38	
9	62	50	42	37	61	49	42	37	48	41	37	47	41	36	46	40	36	35			35	
10	58	46	38	34	57	45	38	34	44	38	33	43	37	33	43	37	33	32			32	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35235
5°	35037
10°	34669
15°	34337
20°	34385
25°	34550
30°	34702
35°	35033
40°	35413
45°	35843
50°	26780
55°	8331
60°	6658
65°	6414
70°	7369
75°	8726
80°	9997
85°	9820

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 35843 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.3	4.4
10°-20°	932.3	12.4
20°-30°	1433.7	19.0
30°-40°	1784.8	23.7
40°-50°	1872.4	24.9
50°-60°	578.9	7.7
60°-70°	274.4	3.6
70°-80°	231.7	3.1
80°-90°	94.8	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2694.4	35.8
0°-40°	4479.3	59.5
0°-60°	6930.5	92.0
0°-90°	7531.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7531.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3499	
5°	3466	328
15°	3294	932
25°	3110	1434
35°	2850	1785
45°	2517	1872
55°	475	579
65°	269	274
75°	224	232
85°	85	95
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3499.4
2.5°	3497.1
5°	3466.4
7.5°	3426.2
10°	3390.8
12.5°	3345.9
15°	3294.0
17.5°	3253.8
20°	3209.0
22.5°	3164.1
25°	3109.8
27.5°	3046.1
30°	2984.7
32.5°	2920.9
35°	2850.1
37.5°	2776.9
40°	2694.2
42.5°	2613.9
45°	2517.1
47.5°	2380.2
50°	1709.6
52.5°	734.4
55°	474.6
57.5°	394.3
60°	330.6
62.5°	288.1
65°	269.2
67.5°	259.7
70°	250.3
72.5°	238.5
75°	224.3
77.5°	203.1
80°	172.4
82.5°	129.9
85°	85.0
87.5°	47.2
90°	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.36	16.78	15.72	17.10	17.41	15.36	16.78	15.72	17.10	17.41
	3H	17.32	18.59	17.70	18.92	19.28	17.32	18.59	17.70	18.92	19.28
	4H	18.48	19.66	18.88	20.01	20.39	18.48	19.66	18.88	20.01	20.39
	6H	19.61	20.70	20.03	21.07	21.46	19.61	20.70	20.03	21.07	21.46
	8H	20.04	21.07	20.47	21.46	21.87	20.04	21.07	20.47	21.46	21.87
	12H	20.34	21.33	20.78	21.72	22.15	20.34	21.33	20.78	21.72	22.15
4H	2H	15.87	17.05	16.27	17.40	17.78	15.87	17.05	16.27	17.40	17.78
	3H	18.23	19.20	18.65	19.60	20.01	18.23	19.20	18.65	19.60	20.01
	4H	19.61	20.48	20.05	20.90	21.34	19.61	20.48	20.05	20.90	21.34
	6H	20.94	21.69	21.40	22.14	22.60	20.94	21.69	21.40	22.14	22.60
	8H	21.43	22.14	21.90	22.59	23.06	21.43	22.14	21.90	22.59	23.06
	12H	21.80	22.43	22.29	22.91	23.39	21.80	22.43	22.29	22.91	23.39
8H	4H	20.14	20.85	20.61	21.30	21.77	20.14	20.85	20.61	21.30	21.77
	6H	21.65	22.24	22.15	22.73	23.21	21.65	22.24	22.15	22.73	23.21
	8H	22.25	22.79	22.77	23.30	23.79	22.25	22.79	22.77	23.30	23.79
	12H	22.73	23.21	23.25	23.70	24.27	22.73	23.21	23.25	23.70	24.27
12H	4H	20.24	20.87	20.72	21.35	21.82	20.24	20.87	20.72	21.35	21.82
	6H	21.79	22.32	22.31	22.83	23.32	21.79	22.32	22.31	22.83	23.32
	8H	22.47	22.95	22.98	23.44	24.01	22.47	22.95	22.98	23.44	24.01