

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: P979330

Luminaire Tested: PRLX-240-927-LL8-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-927-LL8-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

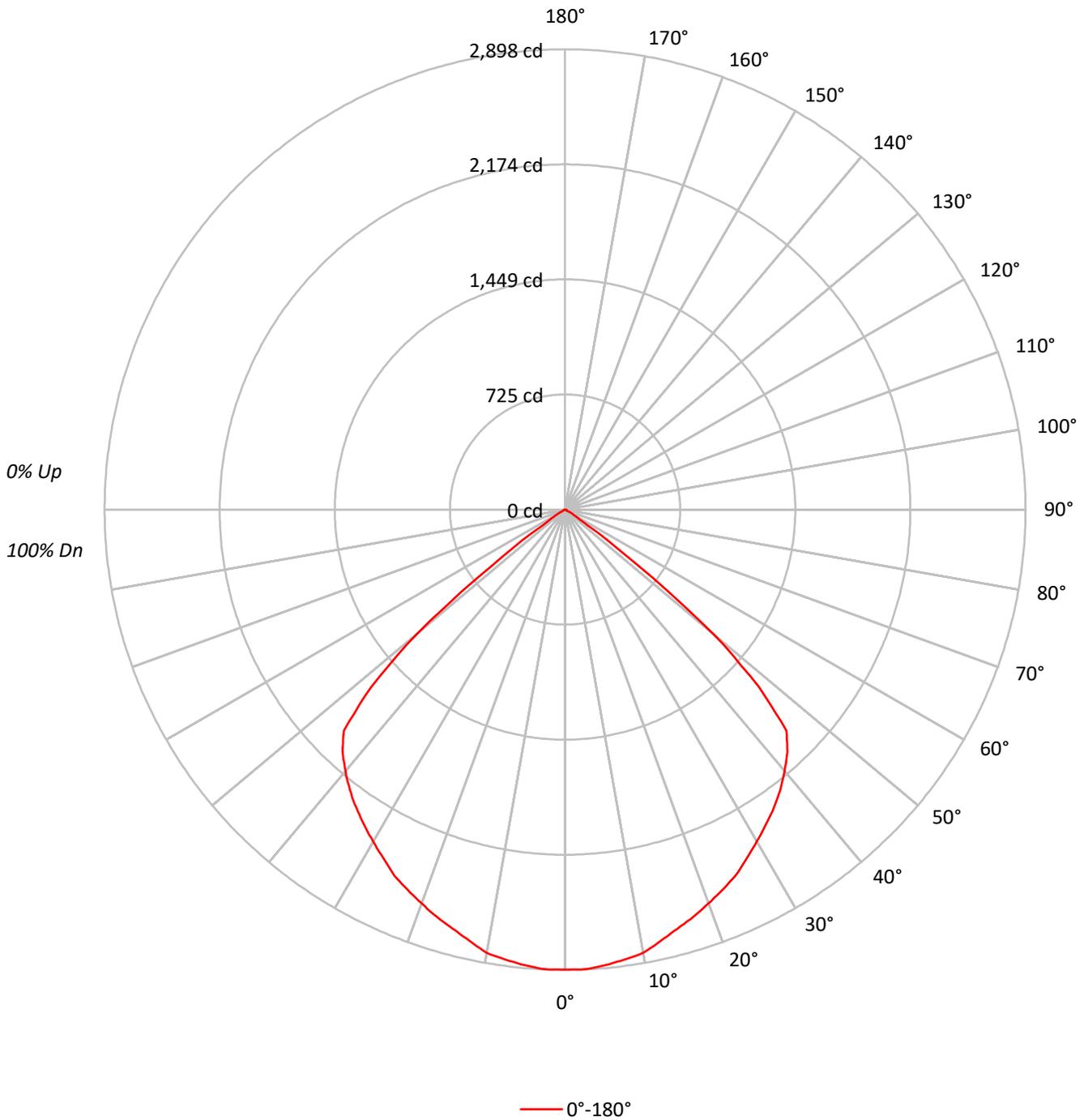
Lumens per Lamp: N/A
Luminaire Lumens: 5407.5 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	99	99	97	96	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	49	45	55	49	45	54	48	44	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	29154
5°	29113
10°	28986
15°	28475
20°	28275
25°	28239
30°	28074
35°	28170
40°	28253
45°	28029
50°	19183
55°	2990
60°	739
65°	155
70°	191
75°	253
80°	377
85°	254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28029 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.5	5.1
10°-20°	772.4	14.3
20°-30°	1169.7	21.6
30°-40°	1433.9	26.5
40°-50°	1419.7	26.3
50°-60°	316.6	5.9
60°-70°	11.6	0.2
70°-80°	6.9	0.1
80°-90°	3.3	0.1
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°	2215.5	41.0
0°-40°	3649.5	67.5
0°-60°	5385.7	99.6
0°-90°	5407.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5407.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2895	
5°	2880	273
15°	2732	772
25°	2542	1170
35°	2292	1434
45°	1968	1420
55°	170	317
65°	6	12
75°	6	7
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2895.4
2.5°	2897.6
5°	2880.3
7.5°	2858.8
10°	2835.0
12.5°	2781.1
15°	2731.6
17.5°	2688.4
20°	2638.8
22.5°	2591.4
25°	2541.8
27.5°	2475.0
30°	2414.6
32.5°	2352.1
35°	2291.7
37.5°	2224.9
40°	2149.5
42.5°	2071.8
45°	1968.4
47.5°	1653.6
50°	1224.6
52.5°	571.3
55°	170.3
57.5°	81.9
60°	36.7
62.5°	12.9
65°	6.5
67.5°	6.5
70°	6.5
72.5°	6.5
75°	6.5
77.5°	6.5
80°	6.5
82.5°	4.3
85°	2.2
87.5°	2.2
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	5.54	6.84	5.90	7.15	7.46	5.54	6.84	5.90	7.15	7.46
	3H	5.45	6.58	5.83	6.91	7.28	5.45	6.58	5.83	6.91	7.28
	4H	5.42	6.48	5.83	6.83	7.21	5.42	6.48	5.83	6.83	7.21
	6H	5.45	6.41	5.86	6.78	7.17	5.45	6.41	5.86	6.78	7.17
	8H	5.45	6.36	5.88	6.75	7.16	5.45	6.36	5.88	6.75	7.16
	12H	5.44	6.31	5.87	6.69	7.12	5.44	6.31	5.87	6.69	7.12
4H	2H	5.34	6.39	5.74	6.74	7.13	5.34	6.39	5.74	6.74	7.13
	3H	5.27	6.12	5.69	6.52	6.93	5.27	6.12	5.69	6.52	6.93
	4H	5.27	6.02	5.71	6.44	6.88	5.27	6.02	5.71	6.44	6.88
	6H	5.37	6.01	5.83	6.46	6.92	5.37	6.01	5.83	6.46	6.92
	8H	5.39	5.99	5.86	6.44	6.91	5.39	5.99	5.86	6.44	6.91
	12H	5.39	5.92	5.88	6.41	6.88	5.39	5.92	5.88	6.41	6.88
8H	4H	5.18	5.78	5.65	6.23	6.70	5.18	5.78	5.65	6.23	6.70
	6H	5.33	5.82	5.83	6.32	6.80	5.33	5.82	5.83	6.32	6.80
	8H	5.39	5.84	5.91	6.35	6.85	5.39	5.84	5.91	6.35	6.85
	12H	5.42	5.82	5.93	6.32	6.89	5.42	5.82	5.93	6.32	6.89
12H	4H	5.15	5.68	5.64	6.16	6.64	5.15	5.68	5.64	6.16	6.64
	6H	5.30	5.75	5.82	6.26	6.75	5.30	5.75	5.82	6.26	6.75
	8H	5.39	5.79	5.90	6.29	6.86	5.39	5.79	5.90	6.29	6.86