

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



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979540

Luminaire Tested: PRLX-240-940-43L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979540
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-240-940-43L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

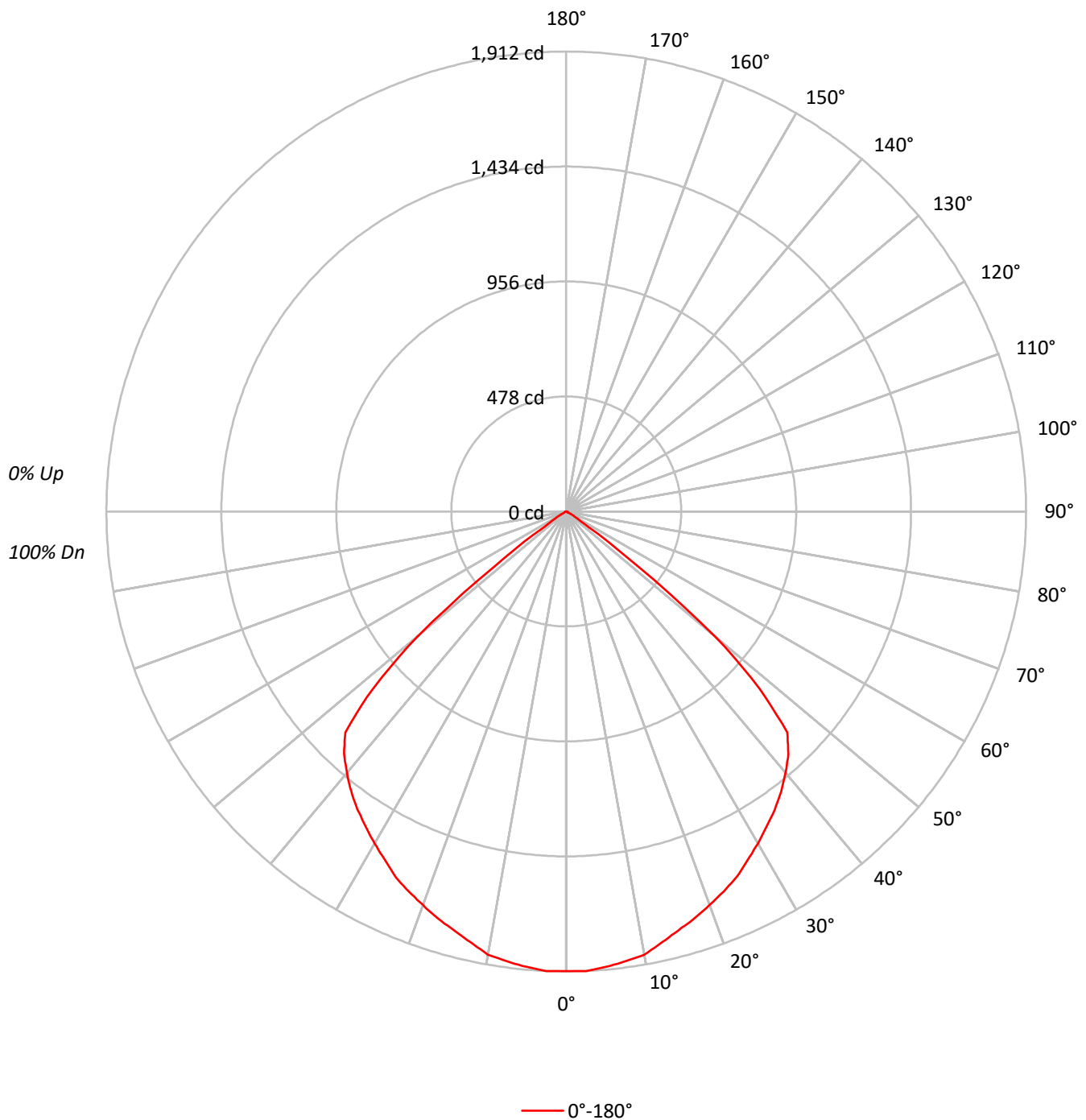
Lumens per Lamp: N/A
Luminaire Lumens: 3568.4 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	100	99		99	97	96		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81
4	91	82	75	70	89	81	74	69	78	73	69		76	72	68		74
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68
6	79	68	61	56	78	67	60	55	66	60	55		64	59	55		63
7	74	63	55	50	73	62	55	50	61	54	50		59	54	49		58
8	69	58	50	45	68	57	50	45	56	49	45		55	49	45		54
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50
10	61	49	42	38	60	49	42	38	48	42	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19239
5°	19211
10°	19128
15°	18790
20°	18659
25°	18635
30°	18526
35°	18589
40°	18644
45°	18496
50°	12659
55°	1973
60°	487
65°	102
70°	127
75°	167
80°	249
85°	162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	5.1
10°-20°	509.7	14.3
20°-30°	771.9	21.6
30°-40°	946.3	26.5
40°-50°	936.8	26.3
50°-60°	208.9	5.9
60°-70°	7.7	0.2
70°-80°	4.5	0.1
80°-90°	2.1	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°	1462.0	41.0
0°-40°	2408.3	67.5
0°-60°	3554.0	99.6
0°-90°	3568.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3568.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1911	
5°	1901	180
15°	1802	510
25°	1677	772
35°	1512	946
45°	1299	937
55°	112	209
65°	4	8
75°	4	5
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1910.7
2.5°	1912.1
5°	1900.7
7.5°	1886.5
10°	1870.8
12.5°	1835.3
15°	1802.5
17.5°	1774.1
20°	1741.4
22.5°	1710.1
25°	1677.3
27.5°	1633.2
30°	1593.4
32.5°	1552.2
35°	1512.3
37.5°	1468.2
40°	1418.4
42.5°	1367.2
45°	1298.9
47.5°	1091.2
50°	808.1
52.5°	377.0
55°	112.4
57.5°	54.1
60°	24.2
62.5°	8.5
65°	4.3
67.5°	4.3
70°	4.3
72.5°	4.3
75°	4.3
77.5°	4.3
80°	4.3
82.5°	2.8
85°	1.4
87.5°	1.4
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	4.10	5.40	4.46	5.71	6.03	4.10	5.40	4.46	5.71	6.03
	3H	4.01	5.15	4.39	5.48	5.84	4.01	5.15	4.39	5.48	5.84
	4H	3.99	5.04	4.39	5.39	5.77	3.99	5.04	4.39	5.39	5.77
	6H	4.01	4.97	4.42	5.34	5.74	4.01	4.97	4.42	5.34	5.74
	8H	4.01	4.92	4.45	5.32	5.72	4.01	4.92	4.45	5.32	5.72
	12H	4.00	4.87	4.43	5.25	5.68	4.00	4.87	4.43	5.25	5.68
4H	2H	3.90	4.95	4.31	5.31	5.69	3.90	4.95	4.31	5.31	5.69
	3H	3.84	4.68	4.25	5.08	5.49	3.84	4.68	4.25	5.08	5.49
	4H	3.83	4.58	4.27	5.00	5.45	3.83	4.58	4.27	5.00	5.45
	6H	3.93	4.57	4.39	5.02	5.49	3.93	4.57	4.39	5.02	5.49
	8H	3.96	4.56	4.43	5.00	5.48	3.96	4.56	4.43	5.00	5.48
	12H	3.95	4.48	4.44	4.97	5.44	3.95	4.48	4.44	4.97	5.44
8H	4H	3.75	4.35	4.22	4.79	5.27	3.75	4.35	4.22	4.79	5.27
	6H	3.89	4.39	4.39	4.88	5.37	3.89	4.39	4.39	4.88	5.37
	8H	3.95	4.40	4.47	4.91	5.41	3.95	4.40	4.47	4.91	5.41
	12H	3.98	4.38	4.49	4.87	5.45	3.98	4.38	4.49	4.87	5.45
12H	4H	3.71	4.24	4.20	4.73	5.20	3.71	4.24	4.20	4.73	5.20
	6H	3.86	4.31	4.38	4.82	5.32	3.86	4.31	4.38	4.82	5.32
	8H	3.95	4.35	4.46	4.85	5.42	3.95	4.35	4.46	4.85	5.42