

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: P979460

Luminaire Tested: PRLX-240-935-43L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979460
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-240-935-43L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

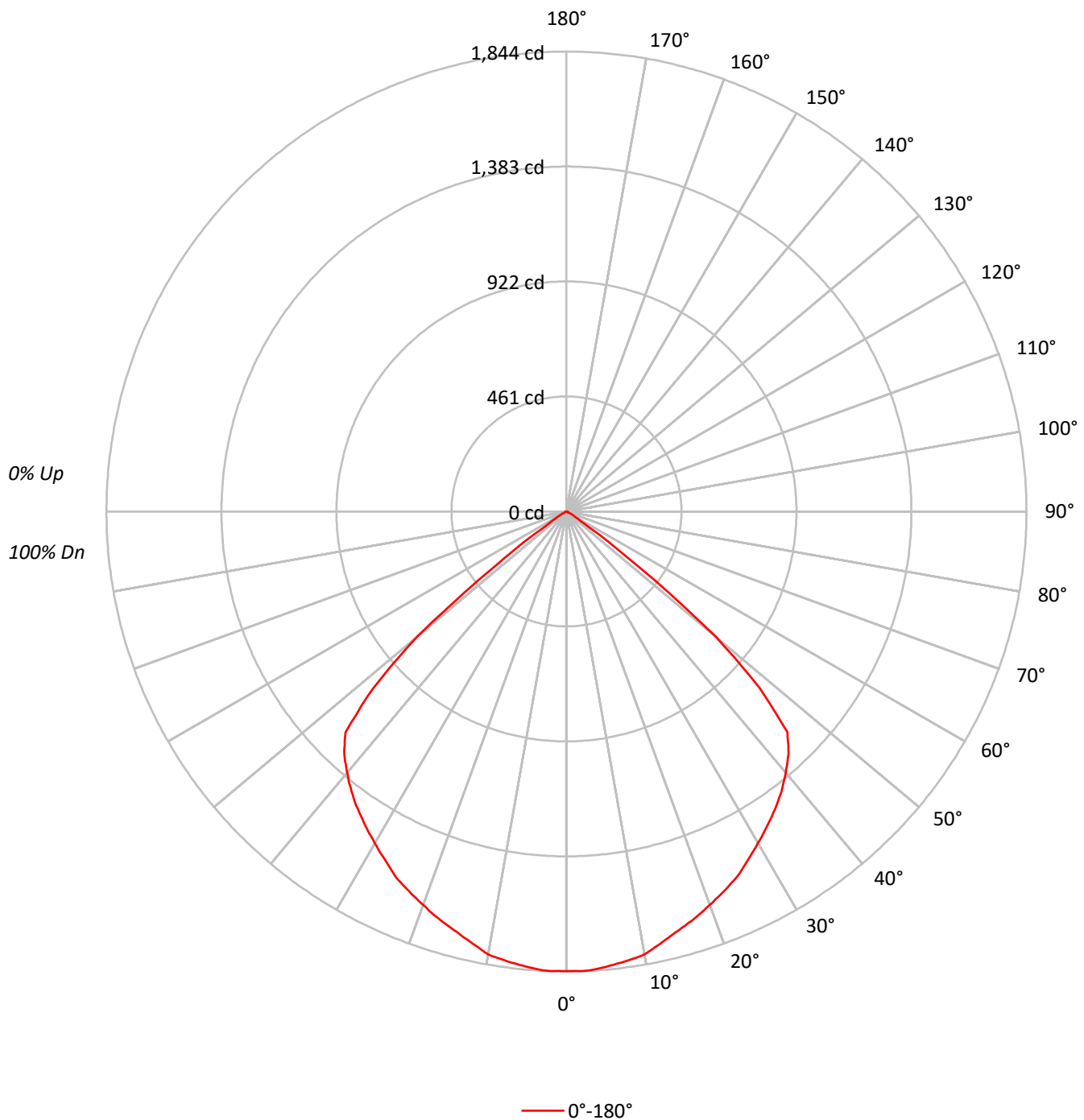
Lumens per Lamp: N/A
Luminaire Lumens: 3440.4 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	30	10	50	30	10	50	30	10		
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°	18549
5°	18523
10°	18443
15°	18116
20°	17991
25°	17967
30°	17862
35°	17923
40°	17976
45°	17834
50°	12204
55°	1903
60°	469
65°	98
70°	121
75°	160
80°	238
85°	162

MAXIMUM LUMINANCE 45°-90°:

Luminance: 17834 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	5.1
10°-20°	491.4	14.3
20°-30°	744.2	21.6
30°-40°	912.3	26.5
40°-50°	903.3	26.3
50°-60°	201.4	5.9
60°-70°	7.4	0.2
70°-80°	4.3	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°	1409.6	41.0
0°-40°	2322.0	67.5
0°-60°	3426.7	99.6
0°-90°	3440.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3440.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1842	
5°	1833	174
15°	1738	491
25°	1617	744
35°	1458	912
45°	1252	903
55°	108	201
65°	4	7
75°	4	4
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1842.2
2.5°	1843.6
5°	1832.6
7.5°	1818.9
10°	1803.8
12.5°	1769.5
15°	1737.9
17.5°	1710.5
20°	1679.0
22.5°	1648.8
25°	1617.2
27.5°	1574.7
30°	1536.3
32.5°	1496.5
35°	1458.1
37.5°	1415.6
40°	1367.6
42.5°	1318.2
45°	1252.4
47.5°	1052.1
50°	779.1
52.5°	363.5
55°	108.4
57.5°	52.1
60°	23.3
62.5°	8.2
65°	4.1
67.5°	4.1
70°	4.1
72.5°	4.1
75°	4.1
77.5°	4.1
80°	4.1
82.5°	2.7
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	3.96	5.26	4.33	5.58	5.89	3.96	5.26	4.33	5.58	5.89
	3H	3.87	5.01	4.25	5.34	5.71	3.87	5.01	4.25	5.34	5.71
	4H	3.85	4.90	4.25	5.25	5.64	3.85	4.90	4.25	5.25	5.64
	6H	3.87	4.83	4.29	5.20	5.60	3.87	4.83	4.29	5.20	5.60
	8H	3.88	4.79	4.31	5.18	5.58	3.88	4.79	4.31	5.18	5.58
	12H	3.86	4.73	4.29	5.11	5.54	3.86	4.73	4.29	5.11	5.54
4H	2H	3.77	4.82	4.17	5.17	5.55	3.77	4.82	4.17	5.17	5.55
	3H	3.70	4.54	4.11	4.95	5.35	3.70	4.54	4.11	4.95	5.35
	4H	3.70	4.44	4.13	4.86	5.31	3.70	4.44	4.13	4.86	5.31
	6H	3.79	4.43	4.25	4.88	5.35	3.79	4.43	4.25	4.88	5.35
	8H	3.81	4.41	4.28	4.86	5.33	3.81	4.41	4.28	4.86	5.33
	12H	3.81	4.34	4.30	4.83	5.30	3.81	4.34	4.30	4.83	5.30
8H	4H	3.61	4.21	4.08	4.65	5.13	3.61	4.21	4.08	4.65	5.13
	6H	3.75	4.24	4.25	4.74	5.22	3.75	4.24	4.25	4.74	5.22
	8H	3.80	4.25	4.33	4.77	5.26	3.80	4.25	4.33	4.77	5.26
	12H	3.83	4.24	4.35	4.73	5.31	3.83	4.24	4.35	4.73	5.31
12H	4H	3.57	4.10	4.06	4.59	5.06	3.57	4.10	4.06	4.59	5.06
	6H	3.72	4.16	4.24	4.68	5.17	3.72	4.16	4.24	4.68	5.17
	8H	3.80	4.21	4.32	4.70	5.28	3.80	4.21	4.32	4.70	5.28

END OF REPORT