

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: P979630

Luminaire Tested: PRLX-241-927-48L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-927-48L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 241 SHADE WITH CLEAR LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

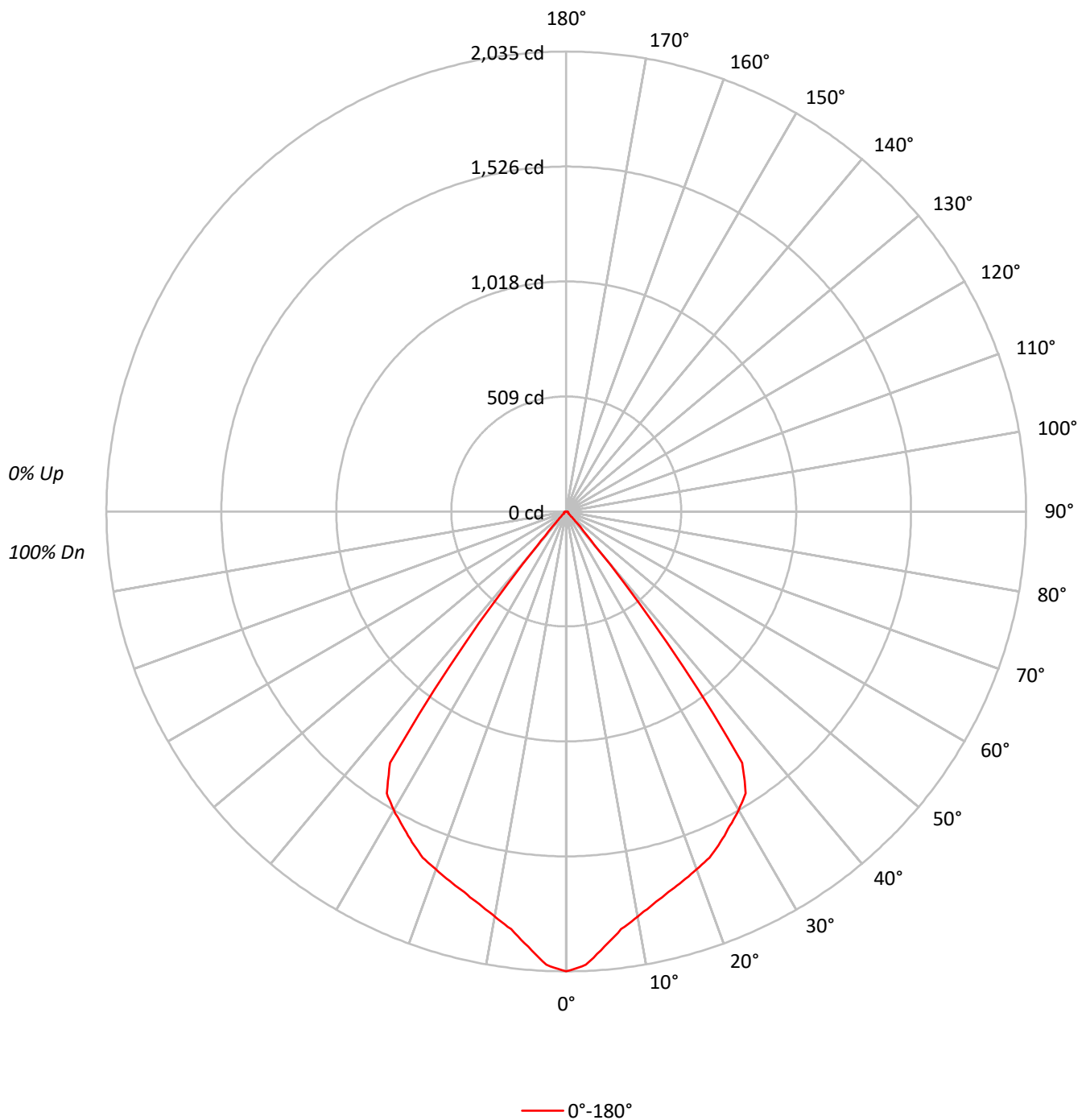
Lumens per Lamp: N/A
Luminaire Lumens: 2163.2 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	113	110	108	106	111	108	106	104	104	102	101		101	99	98		93
2	108	103	98	95	105	101	97	94	98	94	92		95	92	90		86
3	102	95	90	86	100	94	89	85	91	87	84		89	86	83		80
4	97	89	83	79	95	88	82	78	85	81	77		83	80	76		74
5	91	83	77	72	90	82	76	72	80	75	71		78	74	71		69
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		64
7	82	72	66	62	81	72	66	62	70	65	61		69	65	61		59
8	78	68	62	57	76	67	61	57	66	61	57		65	60	57		55
9	74	64	58	54	73	63	57	53	62	57	53		61	57	53		51
10	70	60	54	50	69	60	54	50	59	53	50		58	53	50		48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	15686
5°	14957
10°	14245
15°	13922
20°	13830
25°	13734
30°	13590
35°	12778
40°	1966
45°	319
50°	151
55°	151
60°	173
65°	179
70°	158
75°	167
80°	124
85°	124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 319 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	8.4
10°-20°	493.6	22.8
20°-30°	743.8	34.4
30°-40°	678.4	31.4
40°-50°	39.9	1.8
50°-60°	10.2	0.5
60°-70°	9.2	0.4
70°-80°	5.4	0.2
80°-90°	1.9	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°	1418.3	65.6
0°-40°	2096.6	96.9
0°-60°	2146.7	99.2
0°-90°	2163.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2163.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2035	
5°	1933	181
15°	1744	494
25°	1615	744
35°	1358	678
45°	29	40
55°	11	10
65°	10	9
75°	6	5
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2034.7
2.5°	2008.1
5°	1932.8
7.5°	1864.4
10°	1819.7
12.5°	1779.3
15°	1744.4
17.5°	1715.1
20°	1685.8
22.5°	1657.9
25°	1614.6
27.5°	1568.6
30°	1526.7
32.5°	1477.8
35°	1357.8
37.5°	731.2
40°	195.4
42.5°	65.6
45°	29.3
47.5°	15.4
50°	12.6
52.5°	11.2
55°	11.2
57.5°	11.2
60°	11.2
62.5°	9.8
65°	9.8
67.5°	8.4
70°	7.0
72.5°	5.6
75°	5.6
77.5°	4.2
80°	2.8
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4H	2H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.04	0.52	0.00	0.00	0.00	0.04	0.52
	8H	0.00	0.00	0.00	0.29	0.76	0.00	0.00	0.00	0.29	0.76
	12H	0.00	0.00	0.08	0.44	0.92	0.00	0.00	0.08	0.44	0.92
8H	4H	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.16
	6H	0.00	0.00	0.02	0.35	0.84	0.00	0.00	0.02	0.35	0.84
	8H	0.00	0.20	0.44	0.73	1.23	0.00	0.20	0.44	0.73	1.23
	12H	0.18	0.44	0.71	0.94	1.52	0.18	0.44	0.71	0.94	1.52
12H	4H	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.13
	6H	0.00	0.00	0.09	0.38	0.88	0.00	0.00	0.09	0.38	0.88
	8H	0.03	0.28	0.55	0.78	1.37	0.03	0.28	0.55	0.78	1.37

END OF REPORT