

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: P979392

Luminaire Tested: PRLX-240-930-48L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-930-48L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

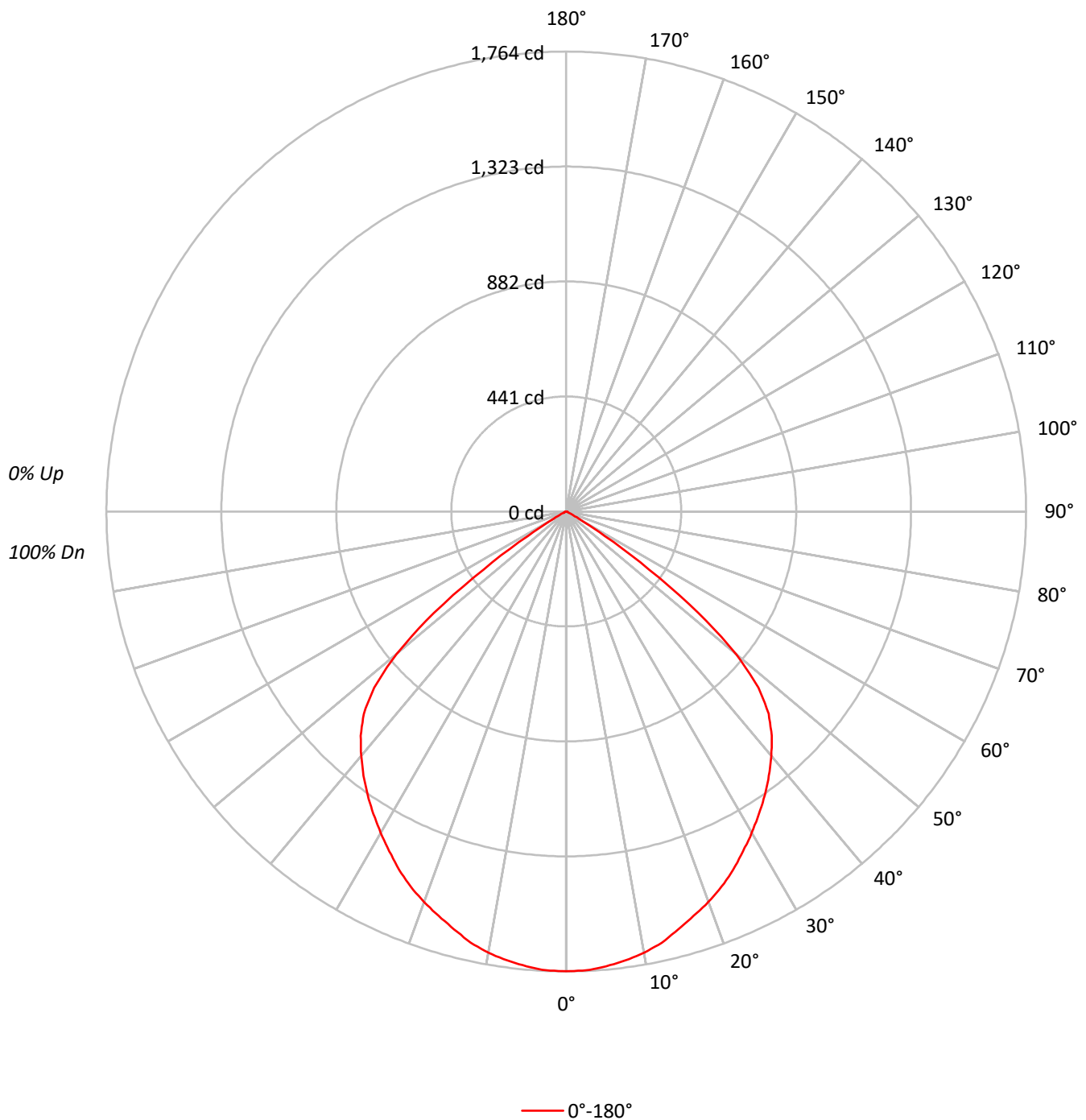
Lumens per Lamp: N/A
Luminaire Lumens: 3375.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	112	109	106	103	110	106	104	101	102	100	98		99	97	95		90
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		81
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		72
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		64
5	84	73	66	61	82	72	65	60	70	64	60		69	63	59		57
6	78	67	59	54	77	66	59	54	64	58	53		63	57	53		51
7	73	61	54	48	71	61	53	48	59	53	48		58	52	48		46
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		41
9	64	52	45	40	63	51	44	40	50	44	39		49	43	39		37
10	60	48	41	36	59	48	41	36	47	40	36		46	40	36		34

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	17757
5°	17704
10°	17577
15°	17303
20°	17089
25°	16847
30°	16547
35°	16330
40°	16082
45°	15631
50°	13326
55°	6804
60°	1102
65°	141
70°	130
75°	171
80°	174
85°	173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15631 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.2	4.9
10°-20°	468.5	13.9
20°-30°	698.0	20.7
30°-40°	830.6	24.6
40°-50°	829.2	24.6
50°-60°	363.7	10.8
60°-70°	12.6	0.4
70°-80°	4.5	0.1
80°-90°	2.0	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°	1332.6	39.5
0°-40°	2163.2	64.1
0°-60°	3356.1	99.4
0°-90°	3375.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3375.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1764	
5°	1752	166
15°	1660	468
25°	1516	698
35°	1328	831
45°	1098	829
55°	388	364
65°	6	13
75°	4	4
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1763.5
2.5°	1762.0
5°	1751.6
7.5°	1736.8
10°	1719.1
12.5°	1693.9
15°	1659.9
17.5°	1625.9
20°	1594.8
22.5°	1557.8
25°	1516.4
27.5°	1469.1
30°	1423.2
32.5°	1375.9
35°	1328.5
37.5°	1276.7
40°	1223.5
42.5°	1167.3
45°	1097.7
47.5°	1000.1
50°	850.7
52.5°	639.1
55°	387.6
57.5°	174.6
60°	54.7
62.5°	11.8
65°	5.9
67.5°	4.4
70°	4.4
72.5°	4.4
75°	4.4
77.5°	4.4
80°	3.0
82.5°	3.0
85°	1.5
87.5°	1.5
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	12.30	13.65	12.66	13.96	14.27	12.30	13.65	12.66	13.96	14.27
	3H	12.18	13.36	12.56	13.69	14.05	12.18	13.36	12.56	13.69	14.05
	4H	12.11	13.20	12.51	13.55	13.94	12.11	13.20	12.51	13.55	13.94
	6H	12.04	13.04	12.46	13.41	13.81	12.04	13.04	12.46	13.41	13.81
	8H	12.00	12.95	12.43	13.34	13.74	12.00	12.95	12.43	13.34	13.74
	12H	11.96	12.87	12.40	13.25	13.68	11.96	12.87	12.40	13.25	13.68
4H	2H	12.10	13.20	12.51	13.55	13.93	12.10	13.20	12.51	13.55	13.93
	3H	11.98	12.86	12.40	13.26	13.67	11.98	12.86	12.40	13.26	13.67
	4H	11.90	12.68	12.34	13.10	13.54	11.90	12.68	12.34	13.10	13.54
	6H	11.83	12.50	12.30	12.95	13.42	11.83	12.50	12.30	12.95	13.42
	8H	11.78	12.41	12.25	12.85	13.33	11.78	12.41	12.25	12.85	13.33
	12H	11.74	12.29	12.23	12.78	13.25	11.74	12.29	12.23	12.78	13.25
8H	4H	11.77	12.39	12.24	12.84	13.31	11.77	12.39	12.24	12.84	13.31
	6H	11.67	12.19	12.18	12.69	13.17	11.67	12.19	12.18	12.69	13.17
	8H	11.62	12.09	12.14	12.60	13.09	11.62	12.09	12.14	12.60	13.09
	12H	11.57	12.00	12.09	12.49	13.06	11.57	12.00	12.09	12.49	13.06
12H	4H	11.72	12.27	12.20	12.75	13.23	11.72	12.27	12.20	12.75	13.23
	6H	11.61	12.08	12.13	12.59	13.08	11.61	12.08	12.13	12.59	13.08
	8H	11.57	11.99	12.08	12.49	13.06	11.57	11.99	12.08	12.49	13.06