

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: P979462

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

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979462
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-240-935-43L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

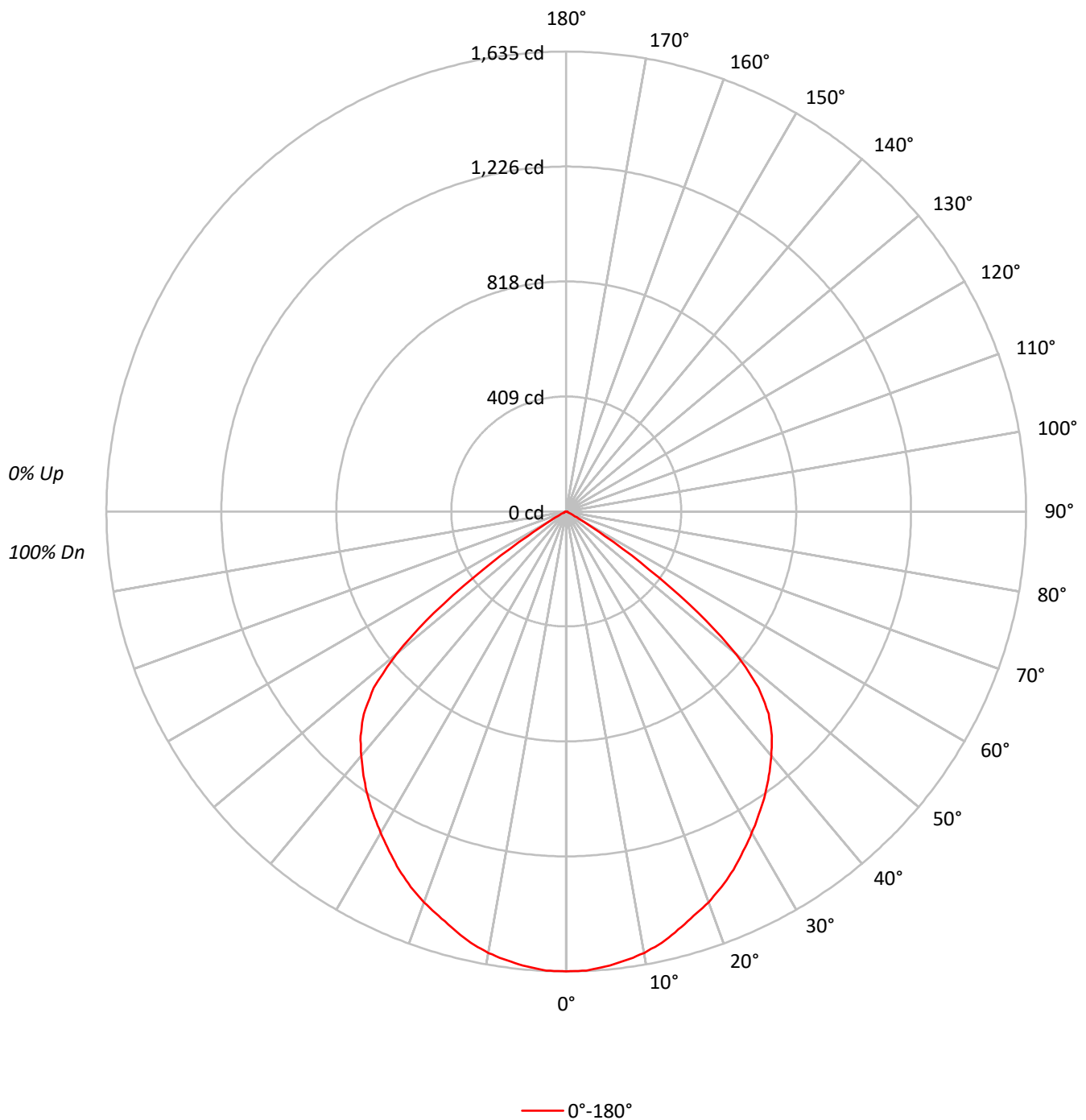
Lumens per Lamp: N/A
Luminaire Lumens: 3129.5 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	106	104	101	102	100	98	99	97	95	95	94	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	84	73	66	61	82	72	65	60	70	64	60	69	63	59	67	62	59	57		
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51		
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	57	51	47	46		
8	68	56	49	44	67	56	49	44	54	48	43	53	47	43	52	47	43	41		
9	64	52	45	40	63	51	44	40	50	44	39	49	43	39	48	43	39	37		
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	16464
5°	16416
10°	16297
15°	16043
20°	15845
25°	15621
30°	15343
35°	15141
40°	14911
45°	14493
50°	12355
55°	6309
60°	1023
65°	131
70°	121
75°	160
80°	157
85°	162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14493 cd/sgm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	4.9
10°-20°	434.3	13.9
20°-30°	647.2	20.7
30°-40°	770.2	24.6
40°-50°	768.8	24.6
50°-60°	337.2	10.8
60°-70°	11.7	0.4
70°-80°	4.1	0.1
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°	1235.6	39.5
0°-40°	2005.7	64.1
0°-60°	3111.8	99.4
0°-90°	3129.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3129.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1635	
5°	1624	154
15°	1539	434
25°	1406	647
35°	1232	770
45°	1018	769
55°	359	337
65°	6	12
75°	4	4
85°	1	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1635.1
2.5°	1633.7
5°	1624.1
7.5°	1610.4
10°	1593.9
12.5°	1570.6
15°	1539.0
17.5°	1507.5
20°	1478.7
22.5°	1444.4
25°	1406.0
27.5°	1362.1
30°	1319.6
32.5°	1275.7
35°	1231.8
37.5°	1183.8
40°	1134.4
42.5°	1082.3
45°	1017.8
47.5°	927.3
50°	788.7
52.5°	592.6
55°	359.4
57.5°	161.9
60°	50.8
62.5°	11.0
65°	5.5
67.5°	4.1
70°	4.1
72.5°	4.1
75°	4.1
77.5°	4.1
80°	2.7
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	12.04	13.38	12.40	13.70	14.01	12.04	13.38	12.40	13.70	14.01
	3H	11.91	13.09	12.29	13.42	13.79	11.91	13.09	12.29	13.42	13.79
	4H	11.85	12.94	12.25	13.29	13.68	11.85	12.94	12.25	13.29	13.68
	6H	11.78	12.78	12.19	13.15	13.54	11.78	12.78	12.19	13.15	13.54
	8H	11.74	12.69	12.17	13.08	13.48	11.74	12.69	12.17	13.08	13.48
	12H	11.70	12.60	12.13	12.99	13.42	11.70	12.60	12.13	12.99	13.42
4H	2H	11.84	12.93	12.24	13.28	13.67	11.84	12.93	12.24	13.28	13.67
	3H	11.72	12.60	12.13	13.00	13.40	11.72	12.60	12.13	13.00	13.40
	4H	11.64	12.42	12.08	12.84	13.28	11.64	12.42	12.08	12.84	13.28
	6H	11.57	12.24	12.04	12.69	13.15	11.57	12.24	12.04	12.69	13.15
	8H	11.52	12.15	11.99	12.59	13.06	11.52	12.15	11.99	12.59	13.06
	12H	11.48	12.03	11.96	12.51	12.99	11.48	12.03	11.96	12.51	12.99
8H	4H	11.51	12.13	11.98	12.58	13.05	11.51	12.13	11.98	12.58	13.05
	6H	11.41	11.93	11.92	12.42	12.91	11.41	11.93	11.92	12.42	12.91
	8H	11.35	11.82	11.88	12.34	12.83	11.35	11.82	11.88	12.34	12.83
	12H	11.31	11.73	11.82	12.23	12.80	11.31	11.73	11.82	12.23	12.80
12H	4H	11.46	12.01	11.94	12.49	12.97	11.46	12.01	11.94	12.49	12.97
	6H	11.34	11.81	11.87	12.33	12.82	11.34	11.81	11.87	12.33	12.82
	8H	11.30	11.73	11.82	12.22	12.79	11.30	11.73	11.82	12.22	12.79