

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



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979450

Luminaire Tested: PRLX-240-935-LL4-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979450
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-LL4-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

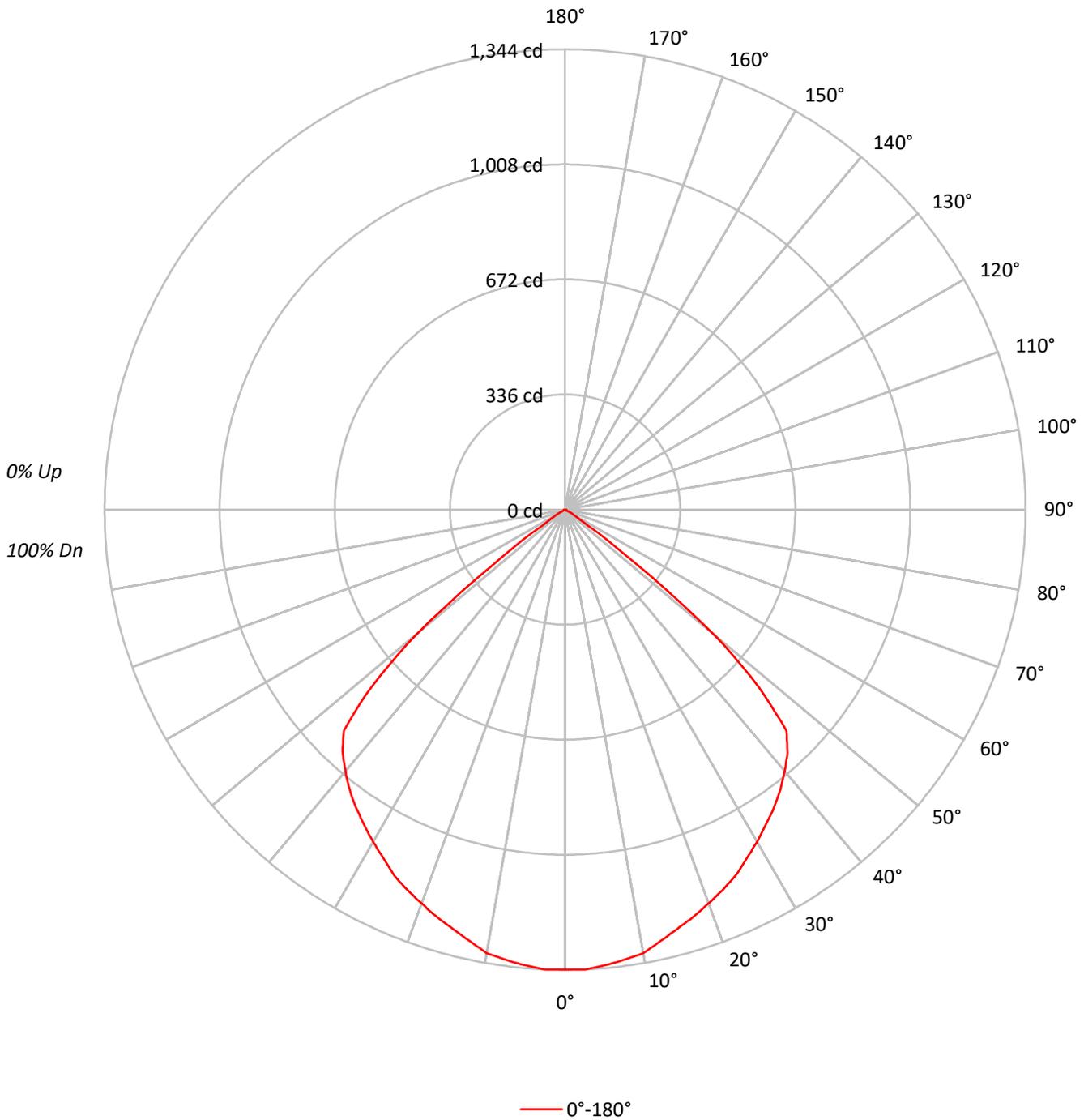
Lumens per Lamp: N/A
Luminaire Lumens: 2508.2 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	0
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	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°	13523
5°	13504
10°	13445
15°	13207
20°	13115
25°	13099
30°	13022
35°	13066
40°	13105
45°	13001
50°	8897
55°	1387
60°	342
65°	71
70°	88
75°	117
80°	174
85°	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13001 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.8	5.1
10°-20°	358.3	14.3
20°-30°	542.6	21.6
30°-40°	665.1	26.5
40°-50°	658.5	26.3
50°-60°	146.8	5.9
60°-70°	5.4	0.2
70°-80°	3.2	0.1
80°-90°	1.5	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°	1027.7	41.0
0°-40°	1692.8	67.5
0°-60°	2498.1	99.6
0°-90°	2508.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2508.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1343	
5°	1336	127
15°	1267	358
25°	1179	543
35°	1063	665
45°	913	658
55°	79	147
65°	3	5
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1343
2.5°	1344
5°	1336
7.5°	1326
10°	1315
12.5°	1290
15°	1267
17.5°	1247
20°	1224
22.5°	1202
25°	1179
27.5°	1148
30°	1120
32.5°	1091
35°	1063
37.5°	1032
40°	997
42.5°	961
45°	913
47.5°	767
50°	568
52.5°	265
55°	79
57.5°	38
60°	17
62.5°	6
65°	3
67.5°	3
70°	3
72.5°	3
75°	3
77.5°	3
80°	3
82.5°	2
85°	1
87.5°	1
90°	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	2.87	4.17	3.23	4.48	4.80	2.87	4.17	3.23	4.48	4.80
	3H	2.78	3.92	3.16	4.25	4.61	2.78	3.92	3.16	4.25	4.61
	4H	2.76	3.81	3.16	4.16	4.54	2.76	3.81	3.16	4.16	4.54
	6H	2.78	3.74	3.19	4.11	4.50	2.78	3.74	3.19	4.11	4.50
	8H	2.78	3.69	3.21	4.08	4.49	2.78	3.69	3.21	4.08	4.49
	12H	2.77	3.64	3.20	4.02	4.45	2.77	3.64	3.20	4.02	4.45
4H	2H	2.67	3.72	3.08	4.08	4.46	2.67	3.72	3.08	4.08	4.46
	3H	2.61	3.45	3.02	3.85	4.26	2.61	3.45	3.02	3.85	4.26
	4H	2.60	3.35	3.04	3.77	4.21	2.60	3.35	3.04	3.77	4.21
	6H	2.69	3.34	3.16	3.78	4.25	2.69	3.34	3.16	3.78	4.25
	8H	2.72	3.32	3.19	3.77	4.24	2.72	3.32	3.19	3.77	4.24
	12H	2.72	3.25	3.21	3.74	4.21	2.72	3.25	3.21	3.74	4.21
8H	4H	2.51	3.11	2.98	3.56	4.03	2.51	3.11	2.98	3.56	4.03
	6H	2.66	3.15	3.16	3.65	4.13	2.66	3.15	3.16	3.65	4.13
	8H	2.72	3.17	3.24	3.68	4.17	2.72	3.17	3.24	3.68	4.17
	12H	2.75	3.15	3.26	3.64	4.22	2.75	3.15	3.26	3.64	4.22
12H	4H	2.48	3.01	2.97	3.49	3.97	2.48	3.01	2.97	3.49	3.97
	6H	2.62	3.07	3.15	3.59	4.08	2.62	3.07	3.15	3.59	4.08
	8H	2.72	3.12	3.23	3.62	4.19	2.72	3.12	3.23	3.62	4.19