

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: P980050

Luminaire Tested: PRLX-242-930-74L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980050
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-74L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

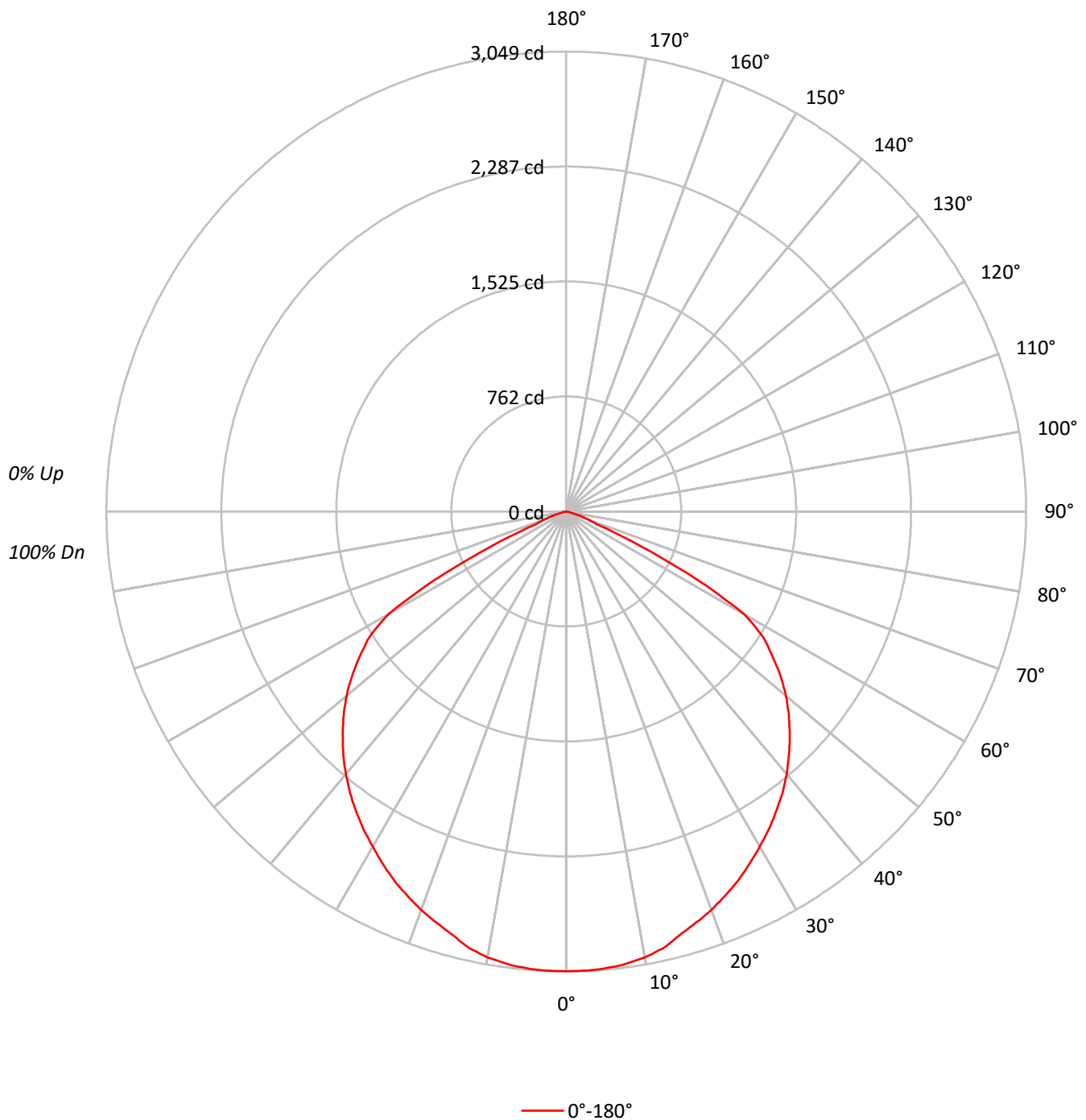
Lumens per Lamp: N/A
Luminaire Lumens: 7640.4 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 61.5
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93
2	102	95	89	84	100	93	88	83	90	85	81		86	83	79		84
3	94	84	77	71	91	83	76	71	80	74	69		77	72	68		75
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		67
5	79	67	59	53	77	66	58	52	64	57	52		62	56	51		60
6	73	61	52	46	71	60	52	46	58	51	46		56	50	45		55
7	68	55	47	41	66	54	46	41	53	46	40		51	45	40		50
8	63	50	42	36	62	49	42	36	48	41	36		47	41	36		46
9	59	46	38	33	58	45	38	33	44	37	32		43	37	32		42
10	55	42	35	30	54	42	35	30	41	34	29		40	34	29		39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	13644
5°	13655
10°	13637
15°	13469
20°	13388
25°	13328
30°	13263
35°	13261
40°	13285
45°	13264
50°	13239
55°	13018
60°	12192
65°	5687
70°	1914
75°	593
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13264 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.0	3.8
10°-20°	821.9	10.8
20°-30°	1243.8	16.3
30°-40°	1520.1	19.9
40°-50°	1617.2	21.2
50°-60°	1484.3	19.4
60°-70°	609.1	8.0
70°-80°	55.0	0.7
80°-90°	0.0	0.0
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°	2354.7	30.8
0°-40°	3874.9	50.7
0°-60°	6976.3	91.3
0°-90°	7640.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7640.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3049	
5°	3040	289
15°	2907	822
25°	2699	1244
35°	2427	1520
45°	2096	1617
55°	1668	1484
65°	537	609
75°	34	55
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3048.9
2.5°	3046.6
5°	3039.8
7.5°	3026.1
10°	3000.9
12.5°	2966.7
15°	2907.2
17.5°	2859.2
20°	2811.2
22.5°	2756.4
25°	2699.2
27.5°	2633.0
30°	2566.7
32.5°	2500.4
35°	2427.3
37.5°	2354.1
40°	2274.1
42.5°	2187.3
45°	2095.9
47.5°	2002.1
50°	1901.6
52.5°	1789.6
55°	1668.5
57.5°	1547.3
60°	1362.2
62.5°	982.8
65°	537.1
67.5°	214.8
70°	146.3
72.5°	100.6
75°	34.3
77.5°	2.3
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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	21.87	23.41	22.23	23.72	24.04	21.87	23.41	22.23	23.72	24.04
	3H	21.85	23.22	22.23	23.55	23.91	21.85	23.22	22.23	23.55	23.91
	4H	21.80	23.08	22.20	23.42	23.80	21.80	23.08	22.20	23.42	23.80
	6H	21.74	22.91	22.15	23.28	23.67	21.74	22.91	22.15	23.28	23.67
	8H	21.71	22.82	22.13	23.21	23.61	21.71	22.82	22.13	23.21	23.61
	12H	21.67	22.74	22.10	23.12	23.55	21.67	22.74	22.10	23.12	23.55
4H	2H	21.92	23.20	22.32	23.55	23.92	21.92	23.20	22.32	23.55	23.92
	3H	21.94	22.97	22.35	23.37	23.77	21.94	22.97	22.35	23.37	23.77
	4H	21.88	22.80	22.31	23.22	23.66	21.88	22.80	22.31	23.22	23.66
	6H	21.82	22.61	22.28	23.06	23.52	21.82	22.61	22.28	23.06	23.52
	8H	21.77	22.51	22.24	22.96	23.43	21.77	22.51	22.24	22.96	23.43
	12H	21.74	22.40	22.22	22.88	23.35	21.74	22.40	22.22	22.88	23.35
8H	4H	21.78	22.52	22.25	22.97	23.43	21.78	22.52	22.25	22.97	23.43
	6H	21.70	22.30	22.19	22.80	23.27	21.70	22.30	22.19	22.80	23.27
	8H	21.64	22.19	22.16	22.70	23.19	21.64	22.19	22.16	22.70	23.19
	12H	21.60	22.09	22.11	22.58	23.15	21.60	22.09	22.11	22.58	23.15
12H	4H	21.75	22.40	22.23	22.88	23.36	21.75	22.40	22.23	22.88	23.36
	6H	21.64	22.19	22.16	22.70	23.19	21.64	22.19	22.16	22.70	23.19
	8H	21.60	22.09	22.11	22.58	23.15	21.60	22.09	22.11	22.58	23.15