

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: P979720

Luminaire Tested: PRLX-241-930-62L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979720
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-241-930-62L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 241 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

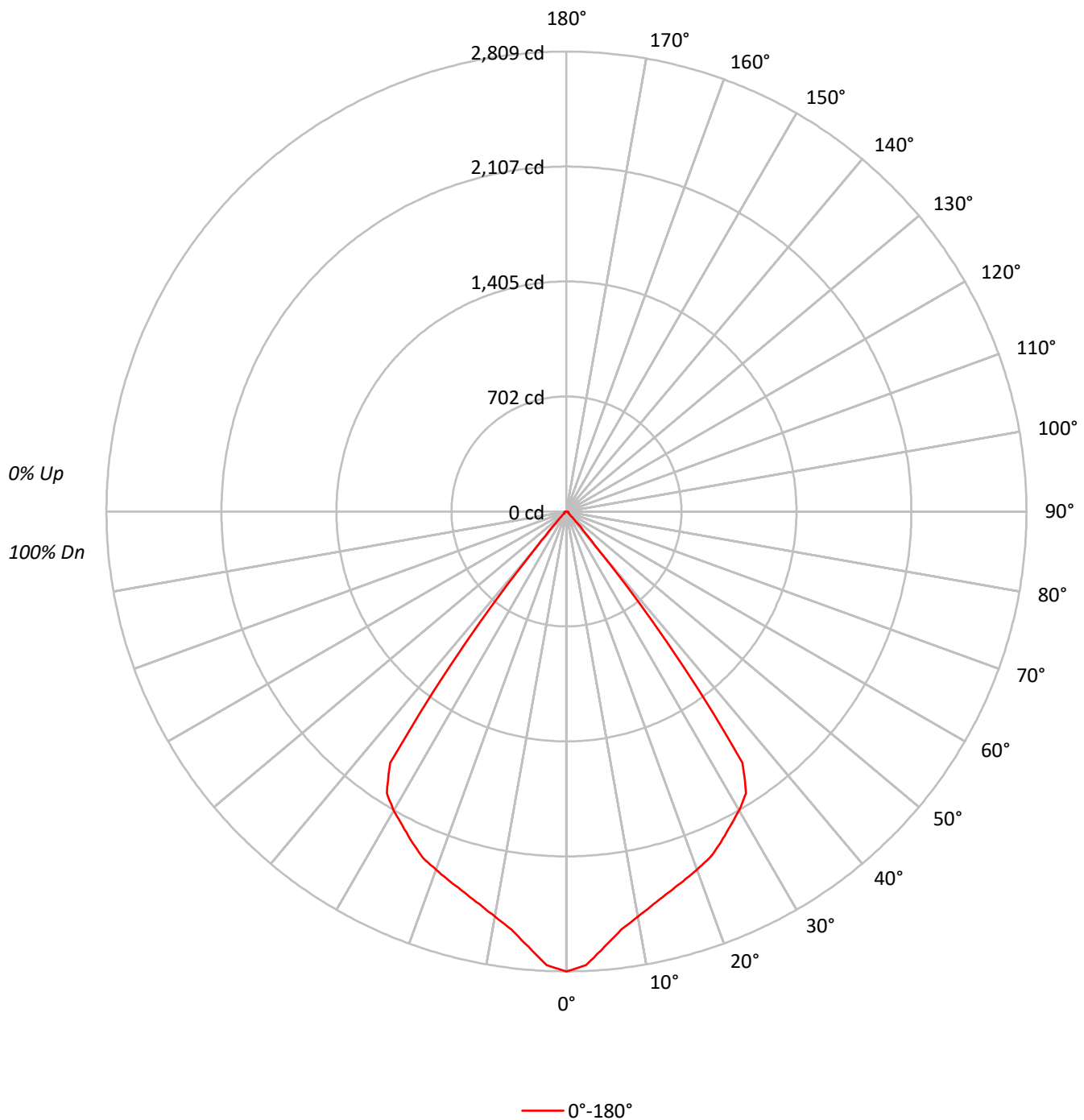
Lumens per Lamp: N/A
Luminaire Lumens: 2986.7 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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°	21658
5°	20652
10°	19669
15°	19223
20°	19095
25°	18963
30°	18765
35°	17644
40°	2715
45°	442
50°	207
55°	207
60°	237
65°	246
70°	216
75°	229
80°	173
85°	168

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	8.4
10°-20°	681.5	22.8
20°-30°	1027.0	34.4
30°-40°	936.7	31.4
40°-50°	55.1	1.8
50°-60°	14.0	0.5
60°-70°	12.6	0.4
70°-80°	7.4	0.2
80°-90°	2.6	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°	1958.3	65.6
0°-40°	2895.0	96.9
0°-60°	2964.0	99.2
0°-90°	2986.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2986.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2809	
5°	2669	250
15°	2409	681
25°	2229	1027
35°	1875	937
45°	40	55
55°	15	14
65°	14	13
75°	8	7
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2809.4
2.5°	2772.8
5°	2668.7
7.5°	2574.3
10°	2512.6
12.5°	2456.7
15°	2408.6
17.5°	2368.1
20°	2327.6
22.5°	2289.1
25°	2229.4
27.5°	2165.8
30°	2108.0
32.5°	2040.5
35°	1874.8
37.5°	1009.7
40°	269.8
42.5°	90.6
45°	40.5
47.5°	21.2
50°	17.3
52.5°	15.4
55°	15.4
57.5°	15.4
60°	15.4
62.5°	13.5
65°	13.5
67.5°	11.6
70°	9.6
72.5°	7.7
75°	7.7
77.5°	5.8
80°	3.9
82.5°	3.9
85°	1.9
87.5°	1.9
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	0.18	0.00	0.00	0.00	0.00	0.18
	6H	0.00	0.00	0.00	0.25	0.64	0.00	0.00	0.00	0.25	0.64
	8H	0.00	0.05	0.00	0.45	0.86	0.00	0.05	0.00	0.45	0.86
	12H	0.00	0.16	0.00	0.54	0.98	0.00	0.16	0.00	0.54	0.98
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	0.13	0.00	0.00	0.00	0.00	0.13
	4H	0.00	0.18	0.08	0.61	1.06	0.00	0.18	0.08	0.61	1.06
	6H	0.23	0.70	0.71	1.15	1.63	0.23	0.70	0.71	1.15	1.63
	8H	0.52	0.95	1.00	1.40	1.88	0.52	0.95	1.00	1.40	1.88
	12H	0.70	1.07	1.19	1.56	2.03	0.70	1.07	1.19	1.56	2.03
8H	4H	0.00	0.33	0.38	0.78	1.26	0.00	0.33	0.38	0.78	1.26
	6H	0.62	0.95	1.13	1.46	1.95	0.62	0.95	1.13	1.46	1.95
	8H	1.02	1.32	1.56	1.85	2.34	1.02	1.32	1.56	1.85	2.34
	12H	1.30	1.56	1.82	2.05	2.64	1.30	1.56	1.82	2.05	2.64
12H	4H	0.00	0.26	0.38	0.75	1.23	0.00	0.26	0.38	0.75	1.23
	6H	0.67	0.97	1.20	1.49	1.99	0.67	0.97	1.20	1.49	1.99
	8H	1.15	1.40	1.67	1.90	2.48	1.15	1.40	1.67	1.90	2.48

END OF REPORT