

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: P979890

Luminaire Tested: PRLX-241-940-74L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979890
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-241-940-74L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 241 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

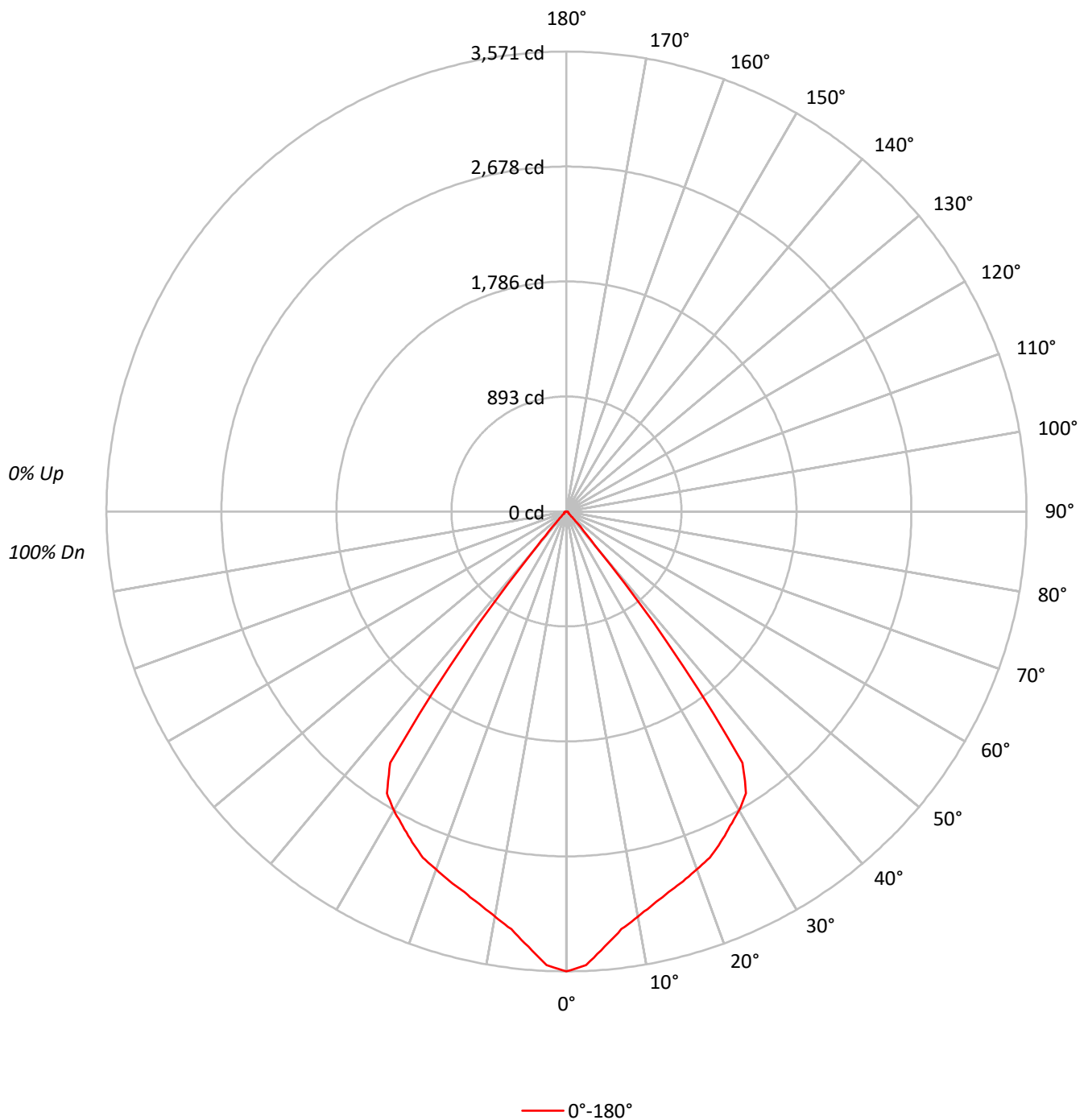
Lumens per Lamp: N/A
Luminaire Lumens: 3796.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.05
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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		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°	27527
5°	26248
10°	25000
15°	24432
20°	24271
25°	24102
30°	23850
35°	22426
40°	3451
45°	560
50°	264
55°	263
60°	302
65°	312
70°	275
75°	292
80°	218
85°	212

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 560 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.5	8.4
10°-20°	866.2	22.8
20°-30°	1305.3	34.4
30°-40°	1190.5	31.4
40°-50°	70.0	1.8
50°-60°	17.8	0.5
60°-70°	16.0	0.4
70°-80°	9.4	0.2
80°-90°	3.3	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°	2489.0	65.6
0°-40°	3679.5	96.9
0°-60°	3767.3	99.2
0°-90°	3796.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3796.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3571	
5°	3392	317
15°	3061	866
25°	2834	1305
35°	2383	1191
45°	51	70
55°	20	18
65°	17	16
75°	10	9
85°	2	3
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3570.7
2.5°	3524.2
5°	3391.9
7.5°	3271.9
10°	3193.6
12.5°	3122.5
15°	3061.3
17.5°	3009.9
20°	2958.5
22.5°	2909.5
25°	2833.5
27.5°	2752.7
30°	2679.3
32.5°	2593.5
35°	2382.9
37.5°	1283.3
40°	342.9
42.5°	115.1
45°	51.4
47.5°	26.9
50°	22.0
52.5°	19.6
55°	19.6
57.5°	19.6
60°	19.6
62.5°	17.1
65°	17.1
67.5°	14.7
70°	12.2
72.5°	9.8
75°	9.8
77.5°	7.3
80°	4.9
82.5°	4.9
85°	2.4
87.5°	2.4
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	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	0.25	0.00	0.00	0.00	0.00	0.25
	4H	0.00	0.27	0.00	0.62	1.02	0.00	0.27	0.00	0.62	1.02
	6H	0.01	0.69	0.43	1.07	1.47	0.01	0.69	0.43	1.07	1.47
	8H	0.23	0.87	0.67	1.26	1.68	0.23	0.87	0.67	1.26	1.68
	12H	0.36	0.98	0.80	1.36	1.79	0.36	0.98	0.80	1.36	1.79
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	0.15	0.00	0.56	0.96	0.00	0.15	0.00	0.56	0.96
	4H	0.47	1.02	0.91	1.44	1.89	0.47	1.02	0.91	1.44	1.89
	6H	1.05	1.52	1.53	1.97	2.44	1.05	1.52	1.53	1.97	2.44
	8H	1.33	1.76	1.81	2.21	2.69	1.33	1.76	1.81	2.21	2.69
	12H	1.51	1.88	2.00	2.37	2.84	1.51	1.88	2.00	2.37	2.84
8H	4H	0.73	1.16	1.21	1.61	2.09	0.73	1.16	1.21	1.61	2.09
	6H	1.43	1.77	1.94	2.27	2.76	1.43	1.77	1.94	2.27	2.76
	8H	1.83	2.13	2.36	2.65	3.15	1.83	2.13	2.36	2.65	3.15
	12H	2.10	2.36	2.63	2.86	3.44	2.10	2.36	2.63	2.86	3.44
12H	4H	0.72	1.09	1.21	1.58	2.06	0.72	1.09	1.21	1.58	2.06
	6H	1.48	1.78	2.01	2.30	2.80	1.48	1.78	2.01	2.30	2.80
	8H	1.95	2.21	2.48	2.71	3.29	1.95	2.21	2.48	2.71	3.29

END OF REPORT