

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: P979882

Luminaire Tested: PRLX-241-940-LL7-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979882
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-241-940-LL7-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 241 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2940.9 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.07
Luminous Opening: Circular (Dia: 1.33' x H: 0')
CIE Type: Direct

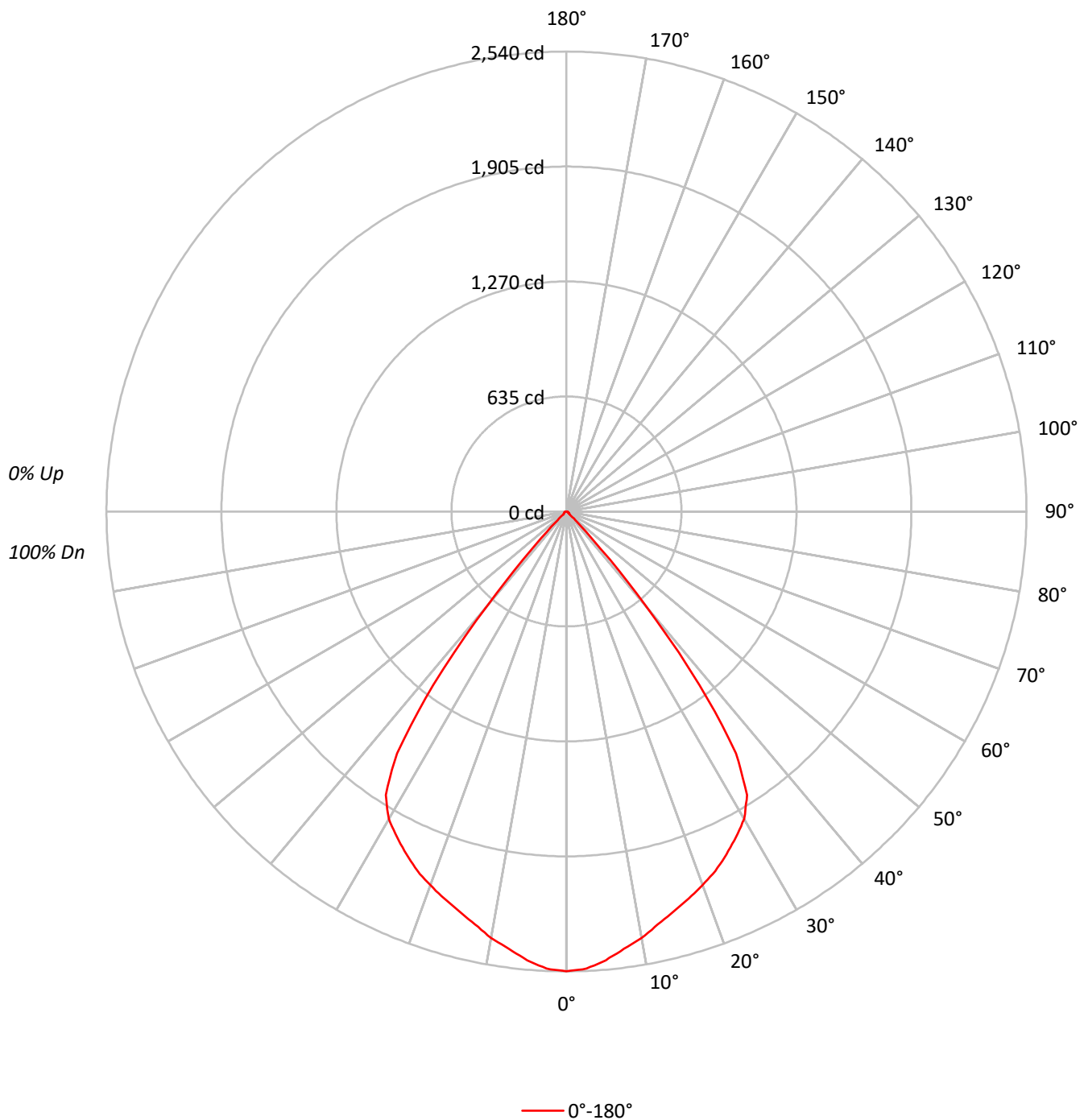
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	108	105	111	108	106	104	104	102	101		100	99	98		97
2	107	102	98	95	105	101	97	93	97	94	91		94	92	89		92
3	102	95	90	86	100	93	89	85	91	87	83		88	85	82		86
4	96	88	82	78	94	87	82	77	85	80	77		83	79	76		81
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76
6	86	77	70	66	84	76	70	65	74	69	65		73	68	65		71
7	81	71	65	61	80	71	65	61	69	64	60		68	63	60		67
8	77	67	61	56	76	66	60	56	65	60	56		64	59	56		63
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59
10	69	59	53	49	68	58	53	49	58	52	49		57	52	48		56

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	19578
5°	19253
10°	18732
15°	18258
20°	18022
25°	17773
30°	17461
35°	15350
40°	6815
45°	856
50°	198
55°	222
60°	224
65°	226
70°	187
75°	185
80°	182
85°	186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 856 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	8.0
10°-20°	646.4	22.0
20°-30°	962.5	32.7
30°-40°	928.8	31.6
40°-50°	135.1	4.6
50°-60°	14.1	0.5
60°-70°	11.5	0.4
70°-80°	6.5	0.2
80°-90°	1.7	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°	1843.1	62.7
0°-40°	2772.0	94.3
0°-60°	2921.2	99.3
0°-90°	2940.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2940.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2540	
5°	2488	234
15°	2288	646
25°	2090	962
35°	1631	929
45°	78	135
55°	16	14
65°	12	12
75°	6	7
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2539.6
2.5°	2527.2
5°	2488.0
7.5°	2436.3
10°	2393.0
12.5°	2335.2
15°	2287.7
17.5°	2242.3
20°	2196.8
22.5°	2149.3
25°	2089.5
27.5°	2027.5
30°	1961.5
32.5°	1856.2
35°	1631.1
37.5°	1207.8
40°	677.2
42.5°	280.8
45°	78.5
47.5°	24.8
50°	16.5
52.5°	16.5
55°	16.5
57.5°	14.5
60°	14.5
62.5°	12.4
65°	12.4
67.5°	10.3
70°	8.3
72.5°	8.3
75°	6.2
77.5°	4.1
80°	4.1
82.5°	2.1
85°	2.1
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	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	0.00	0.00	0.00	0.00	0.00	0.00
	6H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8H	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01
	12H	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.10
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	0.00	0.00	0.00	0.00	0.00	0.00
	4H	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.39
	6H	0.00	0.00	0.00	0.39	0.87	0.00	0.00	0.00	0.39	0.87
	8H	0.00	0.04	0.07	0.49	0.97	0.00	0.04	0.07	0.49	0.97
	12H	0.00	0.13	0.24	0.62	1.09	0.00	0.13	0.24	0.62	1.09
8H	4H	0.00	0.00	0.00	0.04	0.52	0.00	0.00	0.00	0.04	0.52
	6H	0.00	0.16	0.32	0.66	1.15	0.00	0.16	0.32	0.66	1.15
	8H	0.00	0.31	0.54	0.84	1.33	0.00	0.31	0.54	0.84	1.33
	12H	0.26	0.52	0.78	1.02	1.61	0.26	0.52	0.78	1.02	1.61
12H	4H	0.00	0.00	0.00	0.01	0.49	0.00	0.00	0.00	0.01	0.49
	6H	0.00	0.14	0.36	0.66	1.16	0.00	0.14	0.36	0.66	1.16
	8H	0.07	0.34	0.60	0.84	1.42	0.07	0.34	0.60	0.84	1.42

END OF REPORT