

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: P979992

Luminaire Tested: PRLX-242-930-18L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-18L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

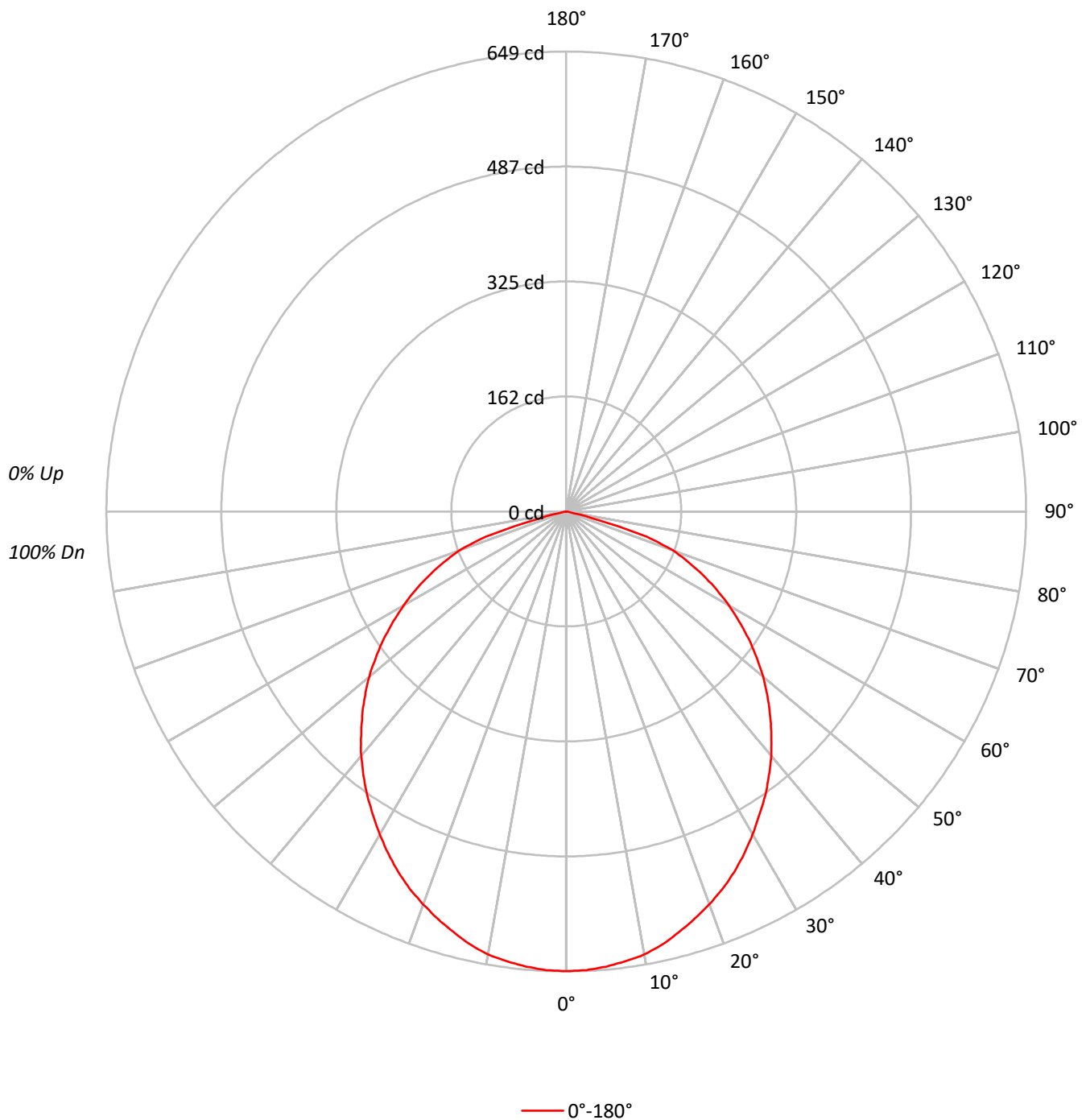
Lumens per Lamp: N/A
Luminaire Lumens: 1670.1 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2903
5°	2897
10°	2885
15°	2848
20°	2810
25°	2771
30°	2719
35°	2675
40°	2630
45°	2576
50°	2526
55°	2455
60°	2372
65°	2262
70°	2095
75°	821
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2576 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	3.7
10°-20°	173.4	10.4
20°-30°	258.3	15.5
30°-40°	306.2	18.3
40°-50°	314.1	18.8
50°-60°	281.1	16.8
60°-70°	210.9	12.6
70°-80°	64.9	3.9
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°	493.0	29.5
0°-40°	799.1	47.8
0°-60°	1394.3	83.5
0°-90°	1670.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1670.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	649	
5°	645	61
15°	615	173
25°	561	258
35°	490	306
45°	407	314
55°	315	281
65°	214	211
75°	48	65
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	648.6
2.5°	648.0
5°	644.8
7.5°	640.4
10°	634.9
12.5°	626.2
15°	614.7
17.5°	602.7
20°	590.1
22.5°	576.5
25°	561.2
27.5°	544.2
30°	526.2
32.5°	507.6
35°	489.6
37.5°	469.9
40°	450.2
42.5°	428.4
45°	407.1
47.5°	385.2
50°	362.8
52.5°	338.8
55°	314.7
57.5°	289.6
60°	265.0
62.5°	239.3
65°	213.6
67.5°	186.9
70°	160.1
72.5°	118.6
75°	47.5
77.5°	2.2
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	15.46	17.05	15.82	17.36	17.68	15.46	17.05	15.82	17.36	17.68
	3H	17.21	18.63	17.58	18.96	19.32	17.21	18.63	17.58	18.96	19.32
	4H	17.40	18.74	17.80	19.09	19.47	17.40	18.74	17.80	19.09	19.47
	6H	17.34	18.58	17.76	18.95	19.34	17.34	18.58	17.76	18.95	19.34
	8H	17.31	18.49	17.74	18.88	19.28	17.31	18.49	17.74	18.88	19.28
	12H	17.28	18.41	17.71	18.79	19.22	17.28	18.41	17.71	18.79	19.22
4H	2H	16.09	17.43	16.49	17.78	18.16	16.09	17.43	16.49	17.78	18.16
	3H	18.01	19.12	18.42	19.51	19.91	18.01	19.12	18.42	19.51	19.91
	4H	18.19	19.18	18.62	19.60	20.04	18.19	19.18	18.62	19.60	20.04
	6H	18.14	19.00	18.59	19.44	19.90	18.14	19.00	18.59	19.44	19.90
	8H	18.10	18.90	18.56	19.34	19.81	18.10	18.90	18.56	19.34	19.81
	12H	18.07	18.79	18.55	19.27	19.74	18.07	18.79	18.55	19.27	19.74
8H	4H	18.23	19.03	18.69	19.47	19.94	18.23	19.03	18.69	19.47	19.94
	6H	18.16	18.81	18.65	19.30	19.78	18.16	18.81	18.65	19.30	19.78
	8H	18.11	18.70	18.63	19.21	19.69	18.11	18.70	18.63	19.21	19.69
	12H	18.09	18.60	18.60	19.09	19.66	18.09	18.60	18.60	19.09	19.66
12H	4H	18.20	18.91	18.68	19.39	19.86	18.20	18.91	18.68	19.39	19.86
	6H	18.11	18.70	18.63	19.21	19.69	18.11	18.70	18.63	19.21	19.69
	8H	18.09	18.60	18.60	19.09	19.66	18.09	18.60	18.60	19.09	19.66