

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: P980282

Luminaire Tested: PRLX-243-927-62L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-243-927-62L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 243 SHADE WITH FROSTED LENS
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

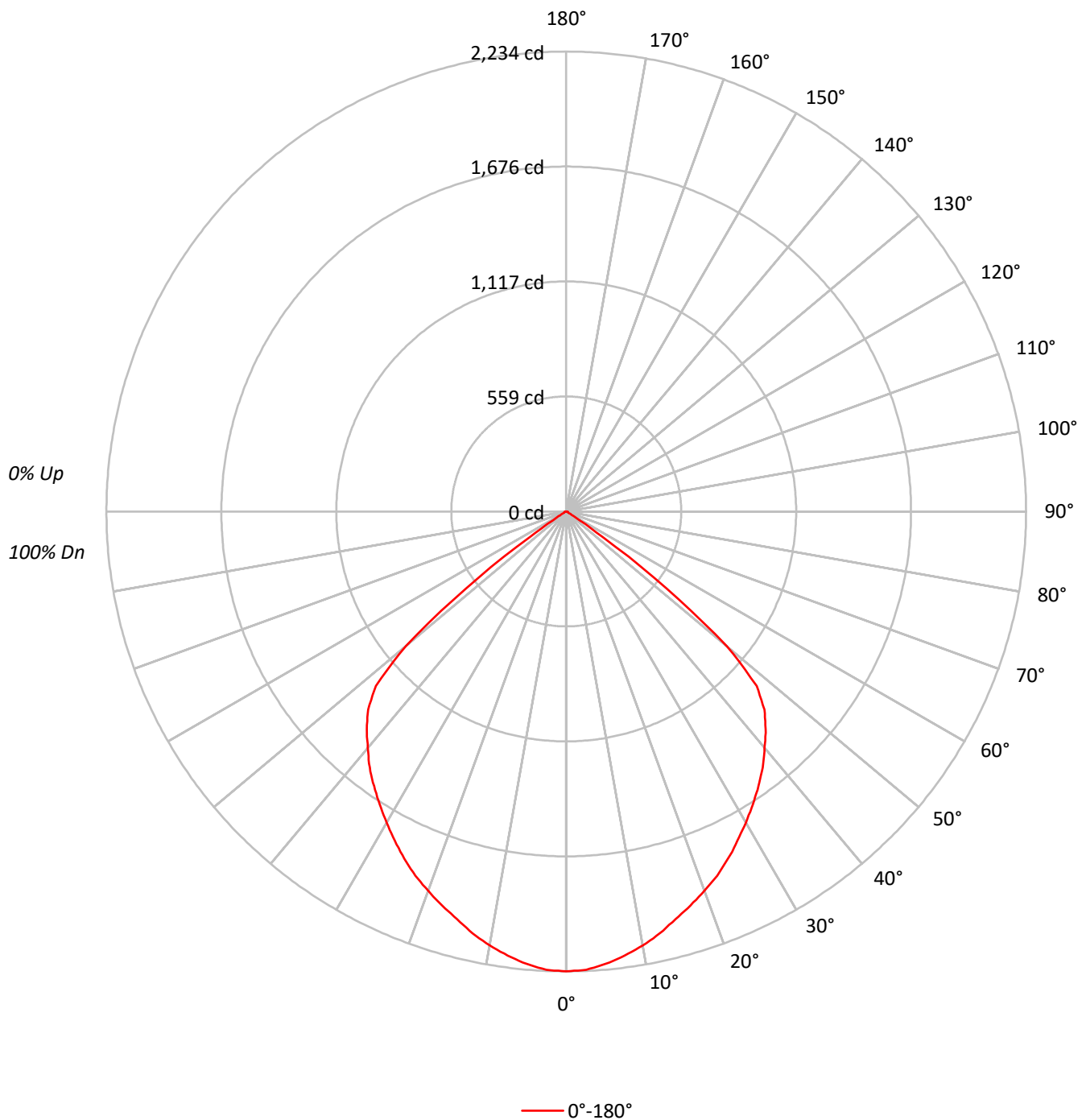
Lumens per Lamp: N/A
Luminaire Lumens: 4006.8 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.31
Luminous Opening: Circular (Dia: 1.67' x H: 0')
CIE Type: Direct

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	112	109	106	103	110	107	104	102	103	100	98		99	97	95		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	90	84	79	96	88	83	78	86	81	77		83	79	76		81
4	91	82	75	70	89	80	74	69	78	73	68		76	71	67		74
5	85	74	67	62	83	73	67	62	71	66	61		70	64	60		68
6	79	68	61	55	77	67	60	55	66	59	55		64	58	54		63
7	74	62	55	50	72	62	55	50	60	54	49		59	53	49		58
8	69	57	50	45	68	57	50	45	56	49	45		54	49	44		53
9	65	53	46	41	64	52	46	41	51	45	41		50	45	40		49
10	61	49	42	37	60	49	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11021
5°	10928
10°	10727
15°	10472
20°	10297
25°	10132
30°	9941
35°	9809
40°	9658
45°	9499
50°	7812
55°	1845
60°	108
65°	106
70°	131
75°	139
80°	102
85°	102

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9499 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	5.2
10°-20°	579.0	14.5
20°-30°	857.1	21.4
30°-40°	1018.8	25.4
40°-50°	1023.2	25.5
50°-60°	301.5	7.5
60°-70°	9.2	0.2
70°-80°	7.0	0.2
80°-90°	2.5	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°	1644.6	41.0
0°-40°	2663.4	66.5
0°-60°	3988.1	99.5
0°-90°	4006.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4006.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2234	
5°	2206	208
15°	2050	579
25°	1861	857
35°	1628	1019
45°	1361	1023
55°	214	301
65°	9	9
75°	7	7
85°	2	2
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2233.8
2.5°	2228.3
5°	2206.5
7.5°	2175.6
10°	2141.1
12.5°	2099.3
15°	2050.2
17.5°	2006.6
20°	1961.2
22.5°	1915.7
25°	1861.2
27.5°	1803.0
30°	1744.9
32.5°	1686.7
35°	1628.5
37.5°	1568.6
40°	1499.5
42.5°	1434.1
45°	1361.4
47.5°	1254.1
50°	1017.8
52.5°	614.3
55°	214.5
57.5°	41.8
60°	10.9
62.5°	9.1
65°	9.1
67.5°	9.1
70°	9.1
72.5°	7.3
75°	7.3
77.5°	5.5
80°	3.6
82.5°	3.6
85°	1.8
87.5°	1.8
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	0.62	0.00	0.93	1.24	0.00	0.62	0.00	0.93	1.24
	3H	0.00	0.66	0.00	0.99	1.35	0.00	0.66	0.00	0.99	1.35
	4H	0.00	0.73	0.07	1.09	1.47	0.00	0.73	0.07	1.09	1.47
	6H	0.00	0.75	0.19	1.12	1.52	0.00	0.75	0.19	1.12	1.52
	8H	0.00	0.74	0.25	1.14	1.54	0.00	0.74	0.25	1.14	1.54
	12H	0.00	0.73	0.28	1.11	1.54	0.00	0.73	0.28	1.11	1.54
4H	2H	0.00	0.25	0.00	0.60	0.98	0.00	0.25	0.00	0.60	0.98
	3H	0.00	0.39	0.00	0.79	1.20	0.00	0.39	0.00	0.79	1.20
	4H	0.00	0.57	0.25	0.99	1.43	0.00	0.57	0.25	0.99	1.43
	6H	0.01	0.66	0.47	1.10	1.57	0.01	0.66	0.47	1.10	1.57
	8H	0.10	0.70	0.57	1.15	1.62	0.10	0.70	0.57	1.15	1.62
	12H	0.16	0.69	0.64	1.18	1.65	0.16	0.69	0.64	1.18	1.65
8H	4H	0.00	0.45	0.31	0.90	1.37	0.00	0.45	0.31	0.90	1.37
	6H	0.09	0.59	0.59	1.09	1.57	0.09	0.59	0.59	1.09	1.57
	8H	0.24	0.70	0.77	1.22	1.71	0.24	0.70	0.77	1.22	1.71
	12H	0.36	0.77	0.87	1.26	1.83	0.36	0.77	0.87	1.26	1.83
12H	4H	0.00	0.35	0.30	0.83	1.31	0.00	0.35	0.30	0.83	1.31
	6H	0.08	0.53	0.60	1.05	1.54	0.08	0.53	0.60	1.05	1.54
	8H	0.28	0.69	0.79	1.18	1.75	0.28	0.69	0.79	1.18	1.75

END OF REPORT