

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: P979532

Luminaire Tested: PRLX-240-940-31L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-940-31L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

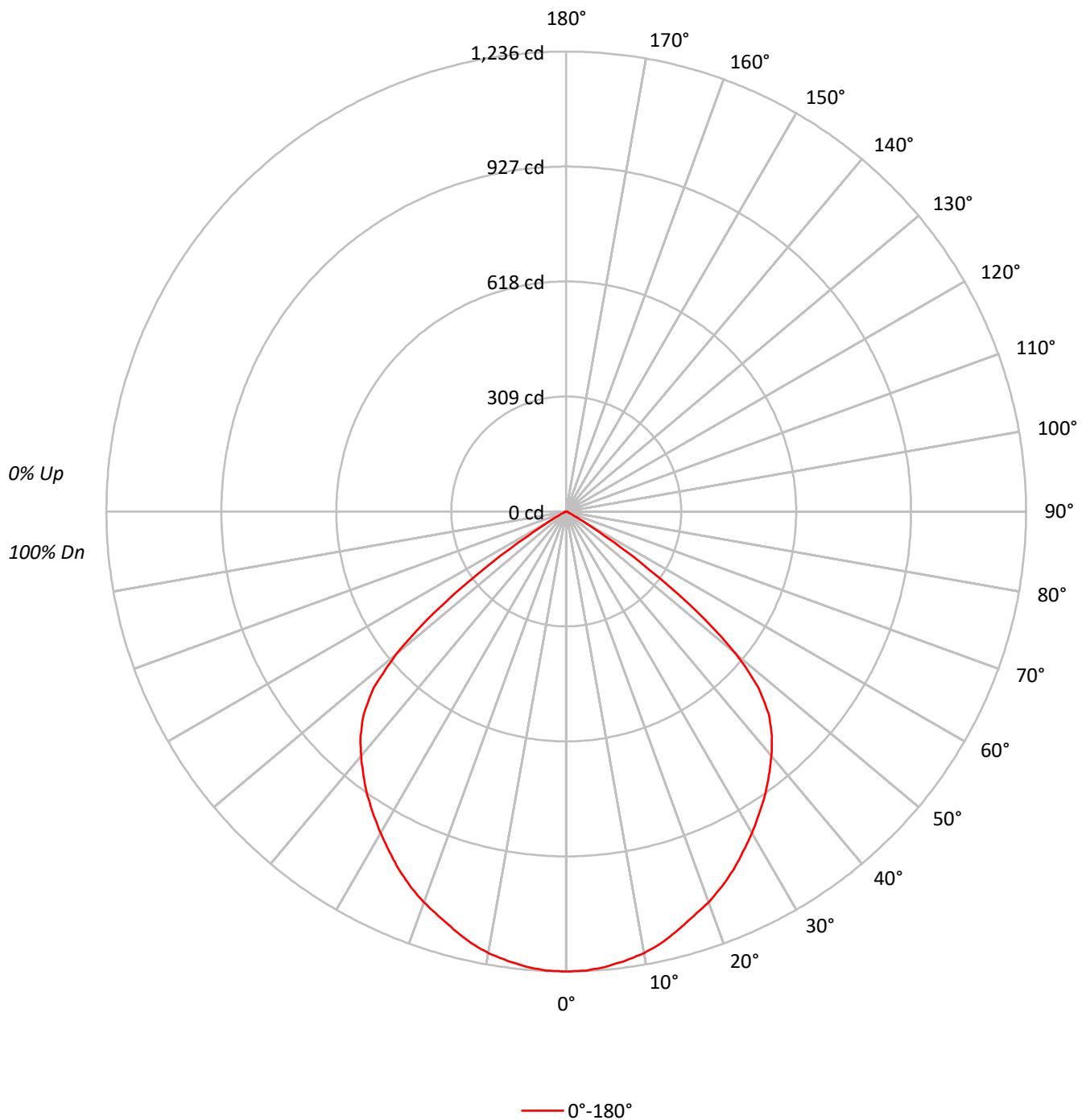
Lumens per Lamp: N/A
Luminaire Lumens: 2366.2 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.33
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 20.5
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		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	106	104	101	102	100	98		99	97	95		95
2	105	98	93	89	102	97	92	88	93	89	86		90	87	84		87
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80
4	90	81	74	68	88	80	73	68	77	72	67		75	70	66		73
5	84	73	66	61	82	72	65	60	70	64	60		69	63	59		67
6	78	67	59	54	77	66	59	54	64	58	53		63	57	53		61
7	73	61	54	48	71	61	53	48	59	53	48		58	52	48		57
8	68	56	49	44	67	56	49	44	54	48	43		53	47	43		52
9	64	52	45	40	63	51	44	40	50	44	39		49	43	39		48
10	60	48	41	36	59	48	41	36	47	40	36		46	40	36		45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	12448
5°	12412
10°	12322
15°	12131
20°	11981
25°	11811
30°	11601
35°	11449
40°	11274
45°	10959
50°	9342
55°	4770
60°	773
65°	98
70°	91
75°	121
80°	122
85°	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 10959 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	4.9
10°-20°	328.4	13.9
20°-30°	489.3	20.7
30°-40°	582.3	24.6
40°-50°	581.3	24.6
50°-60°	255.0	10.8
60°-70°	8.8	0.4
70°-80°	3.1	0.1
80°-90°	1.4	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°	934.2	39.5
0°-40°	1516.6	64.1
0°-60°	2352.9	99.4
0°-90°	2366.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2366.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1236	
5°	1228	116
15°	1164	328
25°	1063	489
35°	931	582
45°	770	581
55°	272	255
65°	4	9
75°	3	3
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1236.3
2.5°	1235.3
5°	1228.0
7.5°	1217.6
10°	1205.2
12.5°	1187.6
15°	1163.7
17.5°	1139.8
20°	1118.1
22.5°	1092.1
25°	1063.1
27.5°	1029.9
30°	997.8
32.5°	964.6
35°	931.4
37.5°	895.1
40°	857.7
42.5°	818.3
45°	769.6
47.5°	701.1
50°	596.4
52.5°	448.1
55°	271.7
57.5°	122.4
60°	38.4
62.5°	8.3
65°	4.1
67.5°	3.1
70°	3.1
72.5°	3.1
75°	3.1
77.5°	3.1
80°	2.1
82.5°	2.1
85°	1.0
87.5°	1.0
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	11.06	12.41	11.43	12.72	13.04	11.06	12.41	11.43	12.72	13.04
	3H	10.94	12.12	11.32	12.45	12.82	10.94	12.12	11.32	12.45	12.82
	4H	10.88	11.97	11.28	12.32	12.70	10.88	11.97	11.28	12.32	12.70
	6H	10.81	11.81	11.22	12.18	12.57	10.81	11.81	11.22	12.18	12.57
	8H	10.77	11.71	11.20	12.11	12.51	10.77	11.71	11.20	12.11	12.51
	12H	10.73	11.63	11.16	12.02	12.45	10.73	11.63	11.16	12.02	12.45
4H	2H	10.87	11.96	11.27	12.31	12.70	10.87	11.96	11.27	12.31	12.70
	3H	10.75	11.62	11.16	12.03	12.43	10.75	11.62	11.16	12.03	12.43
	4H	10.67	11.45	11.11	11.87	12.31	10.67	11.45	11.11	11.87	12.31
	6H	10.60	11.27	11.06	11.71	12.18	10.60	11.27	11.06	11.71	12.18
	8H	10.55	11.17	11.02	11.62	12.09	10.55	11.17	11.02	11.62	12.09
	12H	10.51	11.06	10.99	11.54	12.02	10.51	11.06	10.99	11.54	12.02
8H	4H	10.53	11.16	11.00	11.60	12.08	10.53	11.16	11.00	11.60	12.08
	6H	10.44	10.96	10.94	11.45	11.93	10.44	10.96	10.94	11.45	11.93
	8H	10.38	10.85	10.91	11.37	11.86	10.38	10.85	10.91	11.37	11.86
	12H	10.34	10.76	10.85	11.26	11.83	10.34	10.76	10.85	11.26	11.83
12H	4H	10.48	11.04	10.97	11.52	11.99	10.48	11.04	10.97	11.52	11.99
	6H	10.37	10.84	10.90	11.36	11.85	10.37	10.84	10.90	11.36	11.85
	8H	10.33	10.76	10.85	11.25	11.82	10.33	10.76	10.85	11.25	11.82