

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: P979520

Luminaire Tested: PRLX-240-940-23L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-940-23L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

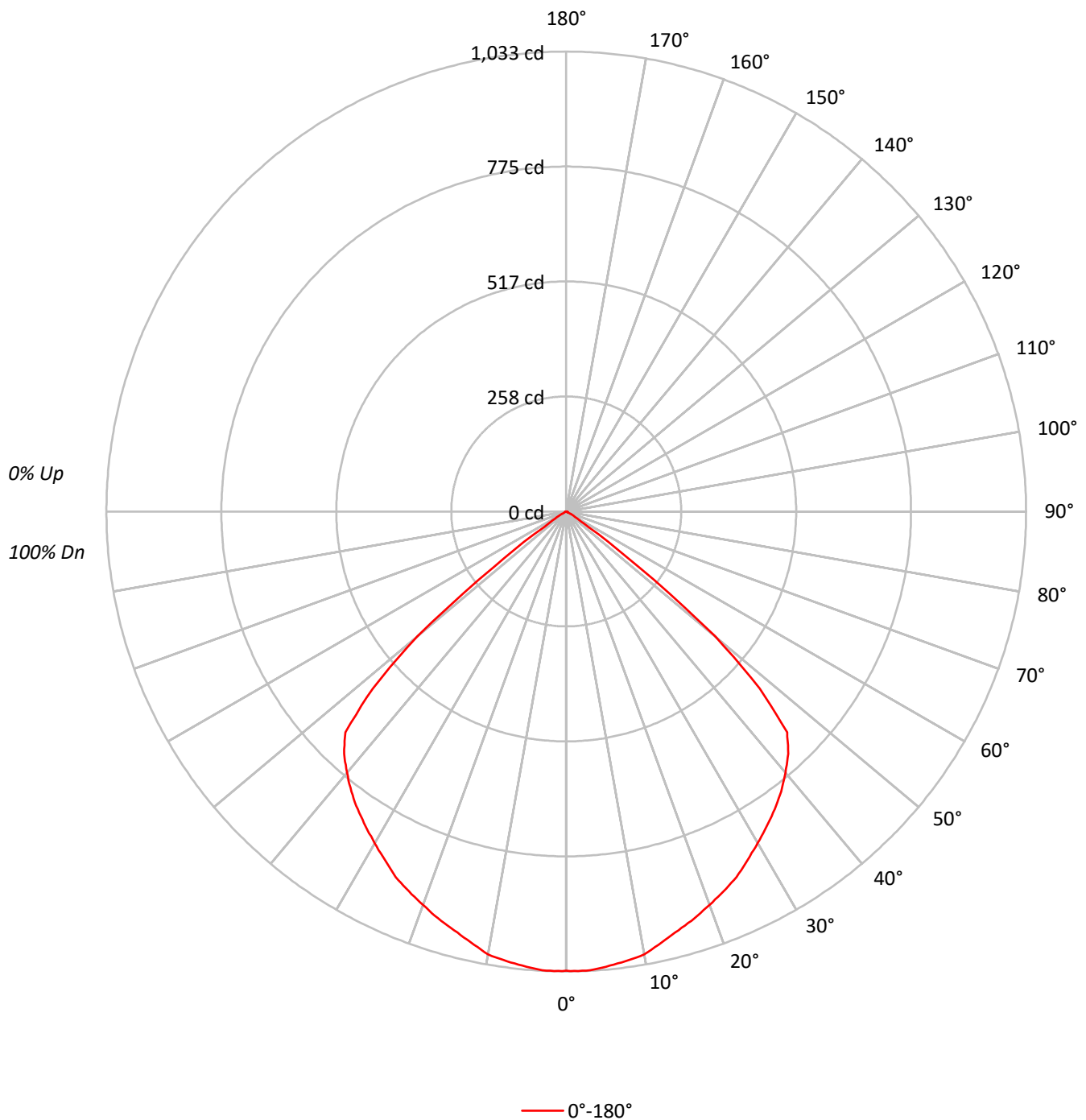
Lumens per Lamp: N/A
Luminaire Lumens: 1927.2 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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	99		99	97	96		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	90	84	79	96	89	83	78	86	81	77		83	79	76		81
4	91	82	75	70	89	81	74	69	78	73	69		76	72	68		74
5	85	75	68	62	83	74	67	62	72	66	61		70	65	61		68
6	79	68	61	56	78	67	60	55	66	60	55		64	59	55		63
7	74	63	55	50	73	62	55	50	61	54	50		59	54	49		58
8	69	58	50	45	68	57	50	45	56	49	45		55	49	45		54
9	65	53	46	41	64	53	46	41	52	45	41		51	45	41		50
10	61	49	42	38	60	49	42	38	48	42	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	10390
5°	10376
10°	10331
15°	10148
20°	10078
25°	10064
30°	10006
35°	10040
40°	10070
45°	9989
50°	6836
55°	1066
60°	264
65°	55
70°	68
75°	89
80°	133
85°	92

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9989 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	5.1
10°-20°	275.3	14.3
20°-30°	416.9	21.6
30°-40°	511.1	26.5
40°-50°	506.0	26.3
50°-60°	112.8	5.9
60°-70°	4.1	0.2
70°-80°	2.4	0.1
80°-90°	1.2	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°	789.6	41.0
0°-40°	1300.7	67.5
0°-60°	1919.5	99.6
0°-90°	1927.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1927.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1032	
5°	1027	97
15°	974	275
25°	906	417
35°	817	511
45°	702	506
55°	61	113
65°	2	4
75°	2	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	1031.9
2.5°	1032.7
5°	1026.6
7.5°	1018.9
10°	1010.4
12.5°	991.2
15°	973.5
17.5°	958.2
20°	940.5
22.5°	923.6
25°	905.9
27.5°	882.1
30°	860.6
32.5°	838.3
35°	816.8
37.5°	793.0
40°	766.1
42.5°	738.4
45°	701.5
47.5°	589.4
50°	436.4
52.5°	203.6
55°	60.7
57.5°	29.2
60°	13.1
62.5°	4.6
65°	2.3
67.5°	2.3
70°	2.3
72.5°	2.3
75°	2.3
77.5°	2.3
80°	2.3
82.5°	1.5
85°	0.8
87.5°	0.8
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	1.95	3.25	2.32	3.57	3.88	1.95	3.25	2.32	3.57	3.88
	3H	1.86	3.00	2.24	3.33	3.70	1.86	3.00	2.24	3.33	3.70
	4H	1.84	2.89	2.24	3.24	3.63	1.84	2.89	2.24	3.24	3.63
	6H	1.86	2.82	2.28	3.20	3.59	1.86	2.82	2.28	3.20	3.59
	8H	1.87	2.78	2.30	3.17	3.57	1.87	2.78	2.30	3.17	3.57
	12H	1.85	2.72	2.28	3.10	3.53	1.85	2.72	2.28	3.10	3.53
4H	2H	1.76	2.81	2.16	3.16	3.55	1.76	2.81	2.16	3.16	3.55
	3H	1.69	2.53	2.10	2.94	3.34	1.69	2.53	2.10	2.94	3.34
	4H	1.69	2.43	2.12	2.85	3.30	1.69	2.43	2.12	2.85	3.30
	6H	1.78	2.42	2.24	2.87	3.34	1.78	2.42	2.24	2.87	3.34
	8H	1.80	2.40	2.27	2.85	3.32	1.80	2.40	2.27	2.85	3.32
	12H	1.81	2.34	2.29	2.82	3.29	1.81	2.34	2.29	2.82	3.29
8H	4H	1.60	2.20	2.07	2.65	3.12	1.60	2.20	2.07	2.65	3.12
	6H	1.74	2.23	2.24	2.73	3.21	1.74	2.23	2.24	2.73	3.21
	8H	1.79	2.24	2.32	2.76	3.25	1.79	2.24	2.32	2.76	3.25
	12H	1.83	2.23	2.34	2.72	3.30	1.83	2.23	2.34	2.72	3.30
12H	4H	1.56	2.09	2.05	2.58	3.05	1.56	2.09	2.05	2.58	3.05
	6H	1.71	2.16	2.23	2.67	3.16	1.71	2.16	2.23	2.67	3.16
	8H	1.79	2.20	2.31	2.69	3.27	1.79	2.20	2.31	2.69	3.27

END OF REPORT