

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: P979440

Luminaire Tested: PRLX-240-935-23L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979440
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-240-935-23L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

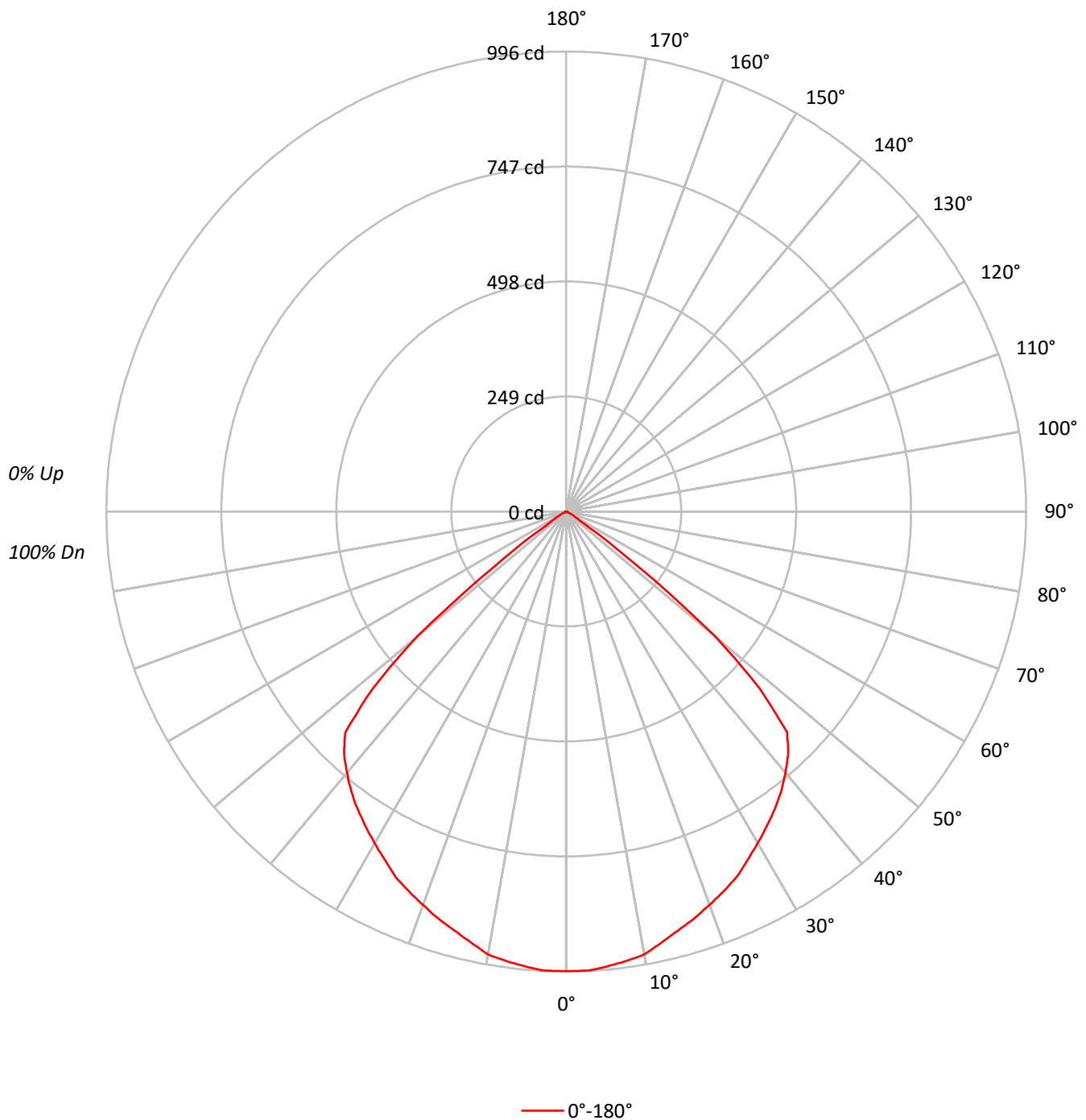
Lumens per Lamp: N/A
Luminaire Lumens: 1858.1 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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	101	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	61	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°	10019
5°	10004
10°	9961
15°	9785
20°	9717
25°	9705
30°	9648
35°	9680
40°	9708
45°	9632
50°	6592
55°	1027
60°	254
65°	52
70°	65
75°	86
80°	128
85°	81

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9632 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	5.1
10°-20°	265.4	14.3
20°-30°	402.0	21.6
30°-40°	492.8	26.5
40°-50°	487.8	26.3
50°-60°	108.8	5.9
60°-70°	4.0	0.2
70°-80°	2.3	0.1
80°-90°	1.1	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°	761.4	41.0
0°-40°	1254.1	67.5
0°-60°	1850.7	99.6
0°-90°	1858.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	995	
5°	990	94
15°	939	265
25°	874	402
35°	788	493
45°	676	488
55°	58	109
65°	2	4
75°	2	2
85°	1	1
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	995.0
2.5°	995.7
5°	989.8
7.5°	982.4
10°	974.2
12.5°	955.7
15°	938.7
17.5°	923.8
20°	906.8
22.5°	890.5
25°	873.5
27.5°	850.5
30°	829.8
32.5°	808.3
35°	787.5
37.5°	764.6
40°	738.6
42.5°	712.0
45°	676.4
47.5°	568.2
50°	420.8
52.5°	196.3
55°	58.5
57.5°	28.2
60°	12.6
62.5°	4.4
65°	2.2
67.5°	2.2
70°	2.2
72.5°	2.2
75°	2.2
77.5°	2.2
80°	2.2
82.5°	1.5
85°	0.7
87.5°	0.7
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	1.84	3.14	2.20	3.45	3.77	1.84	3.14	2.20	3.45	3.77
	3H	1.75	2.88	2.13	3.21	3.58	1.75	2.88	2.13	3.21	3.58
	4H	1.72	2.78	2.13	3.13	3.51	1.72	2.78	2.13	3.13	3.51
	6H	1.74	2.70	2.16	3.08	3.47	1.74	2.70	2.16	3.08	3.47
	8H	1.75	2.66	2.18	3.05	3.45	1.75	2.66	2.18	3.05	3.45
	12H	1.73	2.60	2.16	2.98	3.41	1.73	2.60	2.16	2.98	3.41
4H	2H	1.64	2.69	2.04	3.04	3.43	1.64	2.69	2.04	3.04	3.43
	3H	1.57	2.42	1.99	2.82	3.22	1.57	2.42	1.99	2.82	3.22
	4H	1.57	2.31	2.00	2.74	3.18	1.57	2.31	2.00	2.74	3.18
	6H	1.66	2.30	2.12	2.75	3.21	1.66	2.30	2.12	2.75	3.21
	8H	1.68	2.29	2.16	2.73	3.21	1.68	2.29	2.16	2.73	3.21
	12H	1.68	2.21	2.17	2.70	3.17	1.68	2.21	2.17	2.70	3.17
8H	4H	1.48	2.08	1.95	2.53	3.00	1.48	2.08	1.95	2.53	3.00
	6H	1.61	2.11	2.12	2.61	3.09	1.61	2.11	2.12	2.61	3.09
	8H	1.68	2.13	2.20	2.64	3.14	1.68	2.13	2.20	2.64	3.14
	12H	1.70	2.11	2.22	2.60	3.17	1.70	2.11	2.22	2.60	3.17
12H	4H	1.44	1.97	1.93	2.46	2.93	1.44	1.97	1.93	2.46	2.93
	6H	1.58	2.03	2.11	2.55	3.04	1.58	2.03	2.11	2.55	3.04
	8H	1.68	2.08	2.19	2.58	3.15	1.68	2.08	2.19	2.58	3.15