

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: P979390

Luminaire Tested: PRLX-240-930-48L-C-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979390
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-240-930-48L-C-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 240 SHADE WITH CLEAR LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

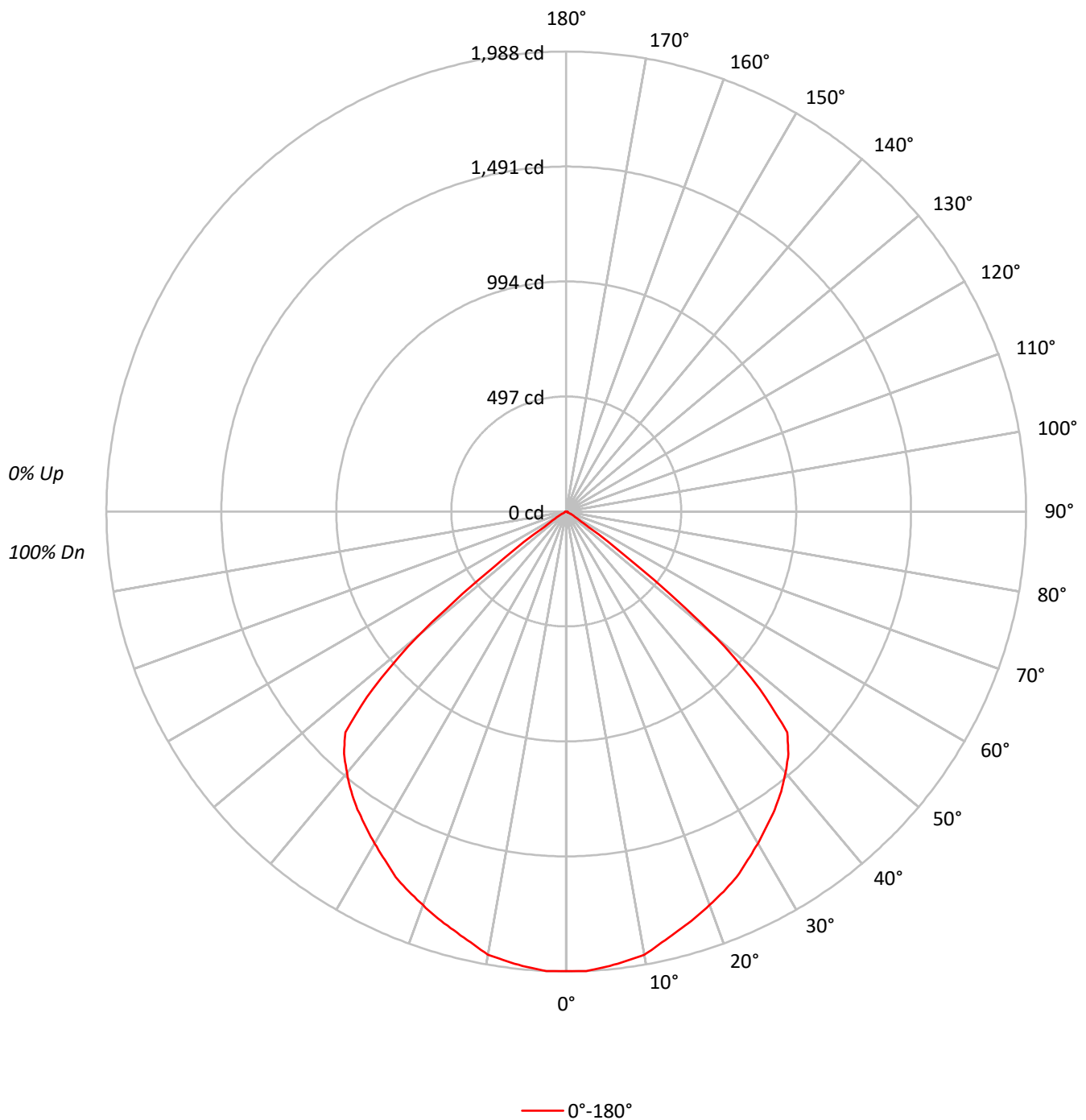
Lumens per Lamp: N/A
Luminaire Lumens: 3710.6 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.39
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

Input Watts (W): 33.5
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

TEST NUMBER: P979390

CATALOG NUMBER: PRLX-240-930-48L-C-U-S-BLAK-X

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°	20006
5°	19977
10°	19890
15°	19539
20°	19403
25°	19378
30°	19264
35°	19330
40°	19388
45°	19234
50°	13163
55°	2052
60°	507
65°	105
70°	130
75°	171
80°	255
85°	173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19234 cd/sqm

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CATALOG NUMBER: PRLX-240-930-48L-C-U-S-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	5.1
10°-20°	530.0	14.3
20°-30°	802.7	21.6
30°-40°	984.0	26.5
40°-50°	974.2	26.3
50°-60°	217.2	5.9
60°-70°	8.0	0.2
70°-80°	4.7	0.1
80°-90°	2.2	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°	1520.3	41.0
0°-40°	2504.3	67.5
0°-60°	3695.7	99.6
0°-90°	3710.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3710.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1987	
5°	1976	188
15°	1874	530
25°	1744	803
35°	1573	984
45°	1351	974
55°	117	217
65°	4	8
75°	4	5
85°	2	2
90°	0	

TEST NUMBER: P979390

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1986.9
2.5°	1988.3
5°	1976.5
7.5°	1961.7
10°	1945.4
12.5°	1908.5
15°	1874.4
17.5°	1844.8
20°	1810.8
22.5°	1778.3
25°	1744.2
27.5°	1698.4
30°	1656.9
32.5°	1614.0
35°	1572.6
37.5°	1526.8
40°	1475.0
42.5°	1421.7
45°	1350.7
47.5°	1134.7
50°	840.3
52.5°	392.0
55°	116.9
57.5°	56.2
60°	25.2
62.5°	8.9
65°	4.4
67.5°	4.4
70°	4.4
72.5°	4.4
75°	4.4
77.5°	4.4
80°	4.4
82.5°	3.0
85°	1.5
87.5°	1.5
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	4.23	5.53	4.59	5.84	6.16	4.23	5.53	4.59	5.84	6.16
	3H	4.14	5.27	4.52	5.60	5.97	4.14	5.27	4.52	5.60	5.97
	4H	4.11	5.17	4.52	5.52	5.90	4.11	5.17	4.52	5.52	5.90
	6H	4.13	5.10	4.55	5.47	5.86	4.13	5.10	4.55	5.47	5.86
	8H	4.14	5.05	4.57	5.44	5.85	4.14	5.05	4.57	5.44	5.85
	12H	4.13	4.99	4.56	5.38	5.81	4.13	4.99	4.56	5.38	5.81
4H	2H	4.03	5.08	4.43	5.43	5.82	4.03	5.08	4.43	5.43	5.82
	3H	3.96	4.81	4.38	5.21	5.62	3.96	4.81	4.38	5.21	5.62
	4H	3.96	4.71	4.39	5.13	5.57	3.96	4.71	4.39	5.13	5.57
	6H	4.05	4.69	4.51	5.14	5.61	4.05	4.69	4.51	5.14	5.61
	8H	4.08	4.68	4.55	5.13	5.60	4.08	4.68	4.55	5.13	5.60
	12H	4.08	4.61	4.57	5.09	5.57	4.08	4.61	4.57	5.09	5.57
8H	4H	3.87	4.47	4.34	4.92	5.39	3.87	4.47	4.34	4.92	5.39
	6H	4.01	4.50	4.51	5.00	5.48	4.01	4.50	4.51	5.00	5.48
	8H	4.07	4.52	4.59	5.04	5.53	4.07	4.52	4.59	5.04	5.53
	12H	4.10	4.51	4.62	5.00	5.57	4.10	4.51	4.62	5.00	5.57
12H	4H	3.83	4.36	4.32	4.85	5.32	3.83	4.36	4.32	4.85	5.32
	6H	3.98	4.43	4.50	4.94	5.43	3.98	4.43	4.50	4.94	5.43
	8H	4.07	4.48	4.59	4.97	5.54	4.07	4.48	4.59	4.97	5.54

END OF REPORT