

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: P980032

Luminaire Tested: PRLX-242-930-48L-F-U-S-BLAK-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P980032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-930-48L-F-U-S-BLAK-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, BLACK 242 SHADE WITH FROSTED LENS
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

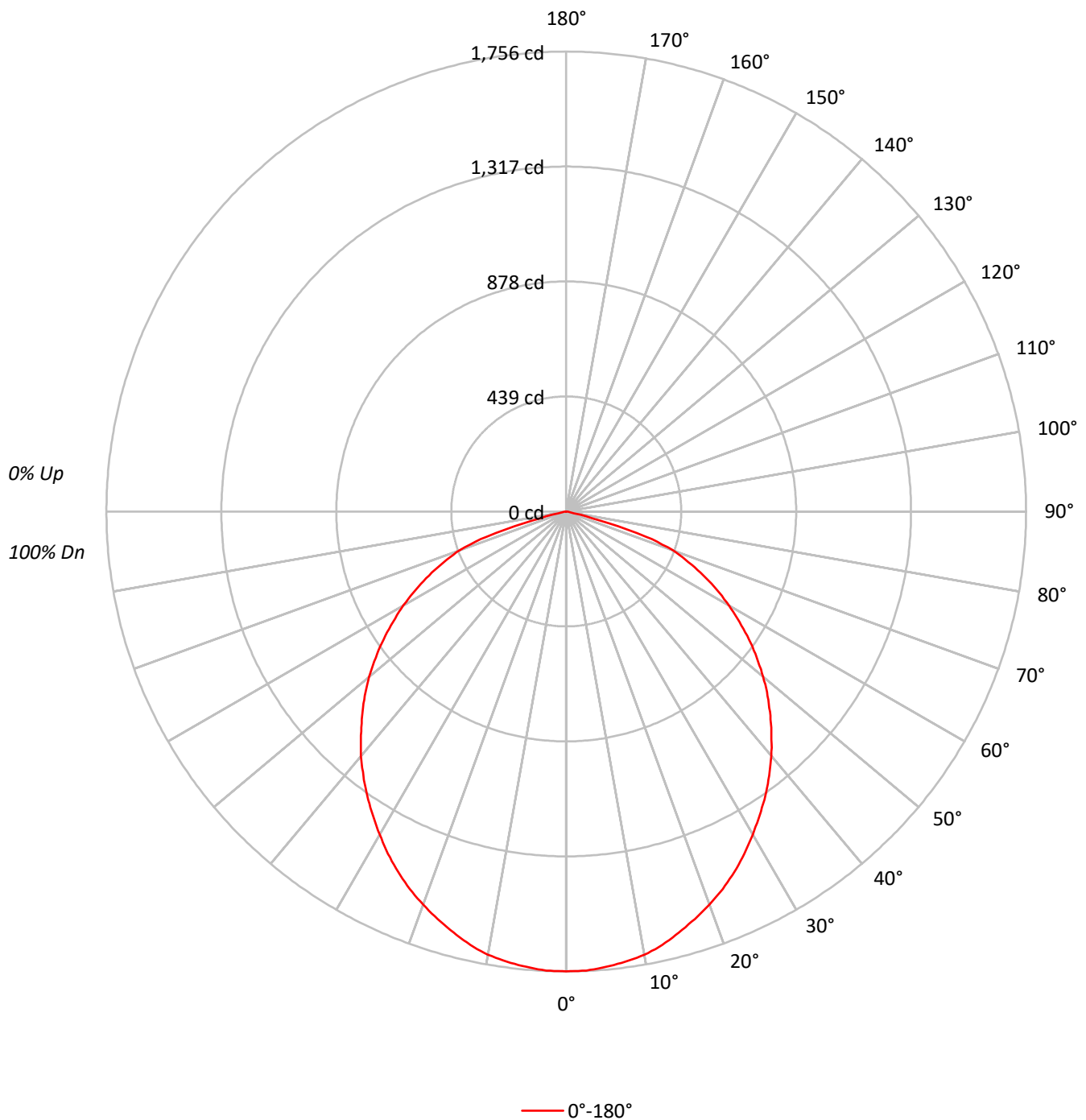
Lumens per Lamp: N/A
Luminaire Lumens: 4522.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.33
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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: P980032

CATALOG NUMBER: PRLX-242-930-48L-F-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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55
5	77	65	56	50	75	64	56	50	62	55	49	60	53	48	58	52	48
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	7859
5°	7842
10°	7812
15°	7711
20°	7609
25°	7502
30°	7362
35°	7242
40°	7121
45°	6976
50°	6839
55°	6648
60°	6422
65°	6126
70°	5672
75°	2225
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6976 cd/sqm

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CATALOG NUMBER: PRLX-242-930-48L-F-U-S-BLAK-X

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.7
10°-20°	469.5	10.4
20°-30°	699.5	15.5
30°-40°	828.9	18.3
40°-50°	850.5	18.8
50°-60°	761.1	16.8
60°-70°	570.9	12.6
70°-80°	175.8	3.9
80°-90°	0.0	0.0
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°	1334.7	29.5
0°-40°	2163.7	47.8
0°-60°	3775.2	83.5
0°-90°	4522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4522.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1756	
5°	1746	166
15°	1664	469
25°	1519	699
35°	1326	829
45°	1102	851
55°	852	761
65°	578	571
75°	129	176
85°	0	0
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1756.1
2.5°	1754.6
5°	1745.7
7.5°	1733.9
10°	1719.1
12.5°	1695.4
15°	1664.3
17.5°	1631.8
20°	1597.8
22.5°	1560.8
25°	1519.4
27.5°	1473.5
30°	1424.7
32.5°	1374.4
35°	1325.6
37.5°	1272.3
40°	1219.0
42.5°	1159.9
45°	1102.2
47.5°	1043.0
50°	982.3
52.5°	917.2
55°	852.1
57.5°	784.1
60°	717.5
62.5°	648.0
65°	578.5
67.5°	506.0
70°	433.5
72.5°	321.0
75°	128.7
77.5°	5.9
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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	18.92	20.51	19.28	20.82	21.14	18.92	20.51	19.28	20.82	21.14
	3H	20.67	22.10	21.04	22.42	22.78	20.67	22.10	21.04	22.42	22.78
	4H	20.86	22.20	21.26	22.55	22.93	20.86	22.20	21.26	22.55	22.93
	6H	20.80	22.04	21.22	22.41	22.80	20.80	22.04	21.22	22.41	22.80
	8H	20.77	21.95	21.20	22.34	22.74	20.77	21.95	21.20	22.34	22.74
	12H	20.74	21.87	21.17	22.25	22.68	20.74	21.87	21.17	22.25	22.68
4H	2H	19.55	20.89	19.95	21.24	21.62	19.55	20.89	19.95	21.24	21.62
	3H	21.47	22.58	21.88	22.98	23.38	21.47	22.58	21.88	22.98	23.38
	4H	21.65	22.64	22.08	23.06	23.50	21.65	22.64	22.08	23.06	23.50
	6H	21.60	22.46	22.05	22.90	23.36	21.60	22.46	22.05	22.90	23.36
	8H	21.56	22.36	22.02	22.81	23.27	21.56	22.36	22.02	22.81	23.27
	12H	21.53	22.25	22.02	22.73	23.20	21.53	22.25	22.02	22.73	23.20
8H	4H	21.69	22.49	22.15	22.93	23.40	21.69	22.49	22.15	22.93	23.40
	6H	21.62	22.27	22.11	22.76	23.24	21.62	22.27	22.11	22.76	23.24
	8H	21.57	22.16	22.09	22.67	23.16	21.57	22.16	22.09	22.67	23.16
	12H	21.55	22.06	22.06	22.55	23.12	21.55	22.06	22.06	22.55	23.12
12H	4H	21.66	22.37	22.14	22.85	23.32	21.66	22.37	22.14	22.85	23.32
	6H	21.57	22.16	22.09	22.67	23.15	21.57	22.16	22.09	22.67	23.15
	8H	21.55	22.06	22.06	22.55	23.12	21.55	22.06	22.06	22.55	23.12

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

7 of 7