

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: P979553

Luminaire Tested: PRLX-240-940-48L-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2019
Report Number: P979553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-2)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-240-940-48L-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 240 SHADE WITH FROSTED LENS
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

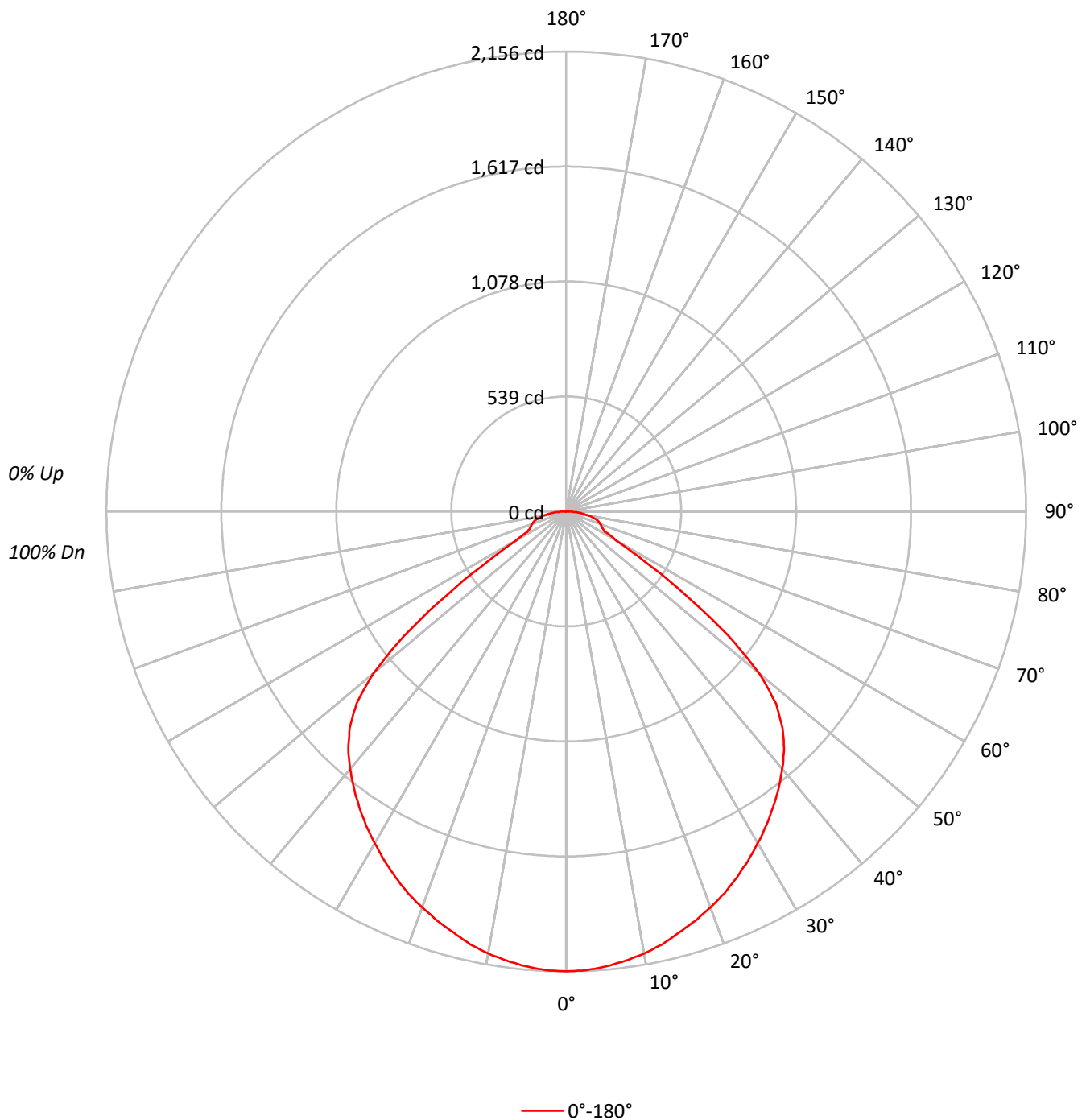
Lumens per Lamp: N/A
Luminaire Lumens: 4824.6 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.37
Luminous Opening: Circular (Dia: 1.17' x H: 0')
CIE Type: Direct

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

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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	111	107	103	100	108	104	101	98	100	98	95		96	94	92		93
2	102	95	89	84	100	93	88	83	90	85	82		87	83	80		84
3	94	85	78	72	92	84	77	72	81	75	71		78	73	69		76
4	87	77	69	63	85	75	68	62	73	67	62		71	65	61		69
5	81	69	61	55	79	68	61	55	66	59	54		64	58	54		62
6	75	63	55	49	73	62	54	49	60	53	48		59	52	48		57
7	70	57	49	44	68	56	49	43	55	48	43		54	47	43		52
8	65	52	45	39	64	52	44	39	50	44	39		49	43	39		48
9	61	48	41	35	59	48	40	35	47	40	35		46	39	35		45
10	57	45	37	32	56	44	37	32	43	37	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	21708
5°	21647
10°	21524
15°	21301
20°	21165
25°	21029
30°	20883
35°	20792
40°	20711
45°	20428
50°	18500
55°	12022
60°	5427
65°	4458
70°	5040
75°	5614
80°	5885
85°	6042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20428 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	4.2
10°-20°	577.3	12.0
20°-30°	872.5	18.1
30°-40°	1058.8	21.9
40°-50°	1091.5	22.6
50°-60°	619.1	12.8
60°-70°	195.8	4.1
70°-80°	149.4	3.1
80°-90°	56.9	1.2
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°	1653.0	34.3
0°-40°	2711.8	56.2
0°-60°	4422.4	91.7
0°-90°	4824.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4824.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2156	
5°	2142	203
15°	2043	577
25°	1893	872
35°	1692	1059
45°	1435	1092
55°	685	619
65°	187	196
75°	144	149
85°	52	57
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2155.9
2.5°	2152.8
5°	2141.7
7.5°	2124.2
10°	2105.2
12.5°	2078.3
15°	2043.4
17.5°	2011.7
20°	1975.2
22.5°	1937.2
25°	1892.8
27.5°	1845.2
30°	1796.1
32.5°	1745.4
35°	1691.5
37.5°	1636.0
40°	1575.7
42.5°	1512.3
45°	1434.6
47.5°	1333.2
50°	1181.0
52.5°	957.5
55°	684.8
57.5°	429.6
60°	269.5
62.5°	204.5
65°	187.1
67.5°	179.1
70°	171.2
72.5°	160.1
75°	144.3
77.5°	125.2
80°	101.5
82.5°	77.7
85°	52.3
87.5°	28.5
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	17.33	18.80	17.69	19.11	19.43	17.33	18.80	17.69	19.11	19.43
	3H	18.22	19.53	18.60	19.86	20.22	18.22	19.53	18.60	19.86	20.22
	4H	18.83	20.05	19.23	20.40	20.78	18.83	20.05	19.23	20.40	20.78
	6H	19.43	20.55	19.84	20.92	21.31	19.43	20.55	19.84	20.92	21.31
	8H	19.67	20.73	20.09	21.12	21.53	19.67	20.73	20.09	21.12	21.53
	12H	19.85	20.87	20.28	21.26	21.69	19.85	20.87	20.28	21.26	21.69
4H	2H	17.45	18.67	17.86	19.02	19.40	17.45	18.67	17.86	19.02	19.40
	3H	18.70	19.70	19.11	20.10	20.50	18.70	19.70	19.11	20.10	20.50
	4H	19.52	20.41	19.95	20.83	21.27	19.52	20.41	19.95	20.83	21.27
	6H	20.33	21.10	20.79	21.55	22.01	20.33	21.10	20.79	21.55	22.01
	8H	20.64	21.37	21.11	21.82	22.29	20.64	21.37	21.11	21.82	22.29
	12H	20.90	21.56	21.39	22.04	22.51	20.90	21.56	21.39	22.04	22.51
8H	4H	19.83	20.56	20.30	21.01	21.48	19.83	20.56	20.30	21.01	21.48
	6H	20.80	21.41	21.30	21.90	22.38	20.80	21.41	21.30	21.90	22.38
	8H	21.22	21.78	21.74	22.29	22.78	21.22	21.78	21.74	22.29	22.78
	12H	21.59	22.09	22.10	22.58	23.15	21.59	22.09	22.10	22.58	23.15
12H	4H	19.88	20.53	20.36	21.01	21.48	19.88	20.53	20.36	21.01	21.48
	6H	20.88	21.44	21.40	21.95	22.44	20.88	21.44	21.40	21.95	22.44
	8H	21.38	21.87	21.89	22.36	22.93	21.38	21.87	21.89	22.36	22.93