

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: PrentaLux

Report Number: P979563

Luminaire Tested: PRLX-240-940-LL7-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P979563
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-LL7-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: 6283.6 lumens
Efficiency: N/A
Efficacy: 130.9 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

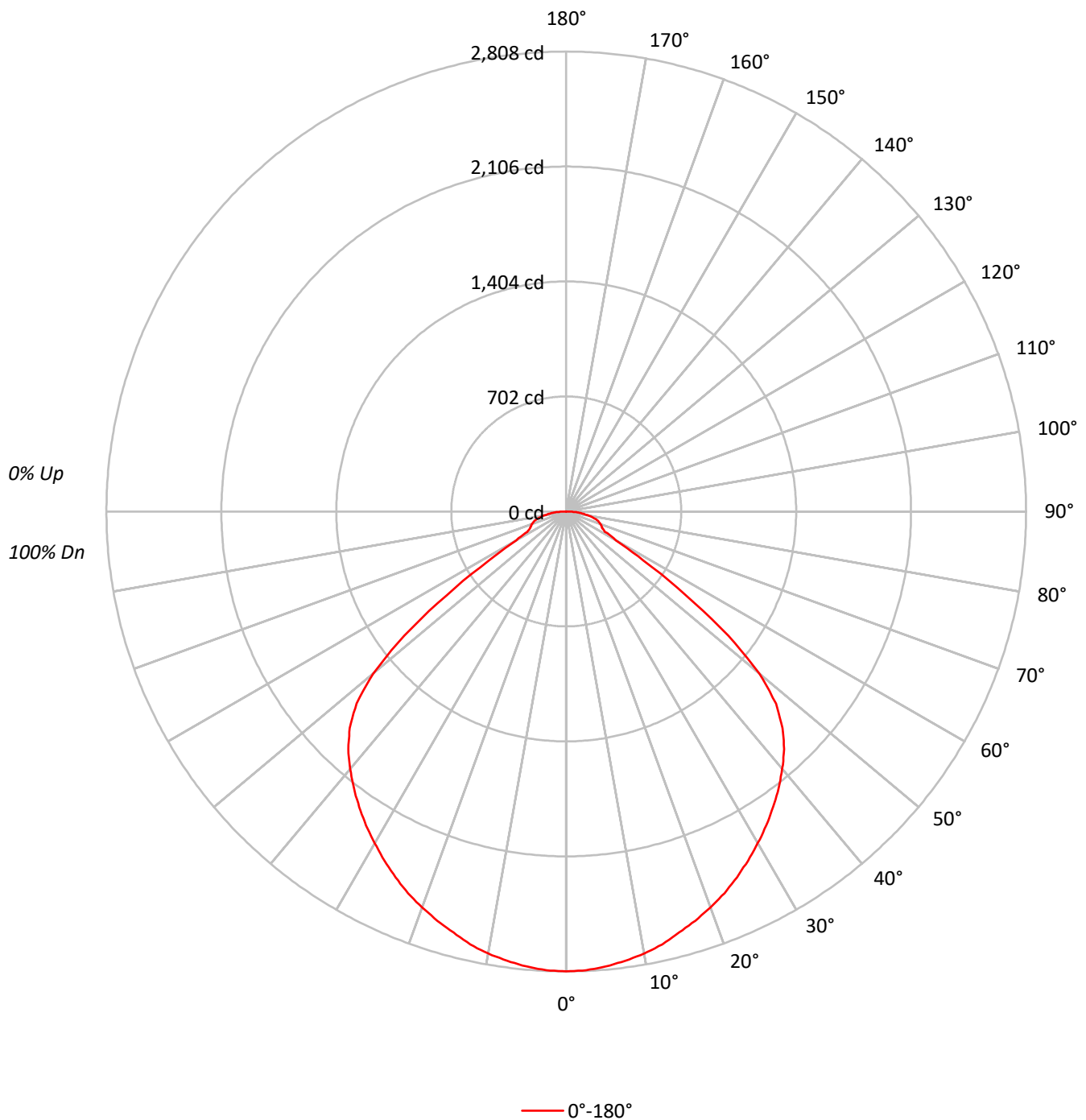
Input Watts (W): 48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88								
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76								
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66								
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58								
5	81	69	61	55	79	68	61	55	66	59	54	64	58	54	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	46								
7	70	57	49	44	68	56	49	43	55	48	43	54	47	43	52	47	42	41								
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37								
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35	33								
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	41	36	32	30								

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28274
5°	28194
10°	28034
15°	27743
20°	27566
25°	27388
30°	27198
35°	27079
40°	26976
45°	26607
50°	24095
55°	15657
60°	7068
65°	5804
70°	6565
75°	7310
80°	7660
85°	7868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 26607 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	4.2
10°-20°	751.9	12.0
20°-30°	1136.3	18.1
30°-40°	1379.0	21.9
40°-50°	1421.7	22.6
50°-60°	806.3	12.8
60°-70°	255.0	4.1
70°-80°	194.6	3.1
80°-90°	74.2	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°	2153.0	34.3
0°-40°	3531.9	56.2
0°-60°	5759.9	91.7
0°-90°	6283.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6283.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2808	
5°	2789	265
15°	2661	752
25°	2465	1136
35°	2203	1379
45°	1868	1422
55°	892	806
65°	244	255
75°	188	195
85°	68	74
90°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2808.0
2.5°	2803.9
5°	2789.4
7.5°	2766.7
10°	2741.9
12.5°	2706.8
15°	2661.4
17.5°	2620.1
20°	2572.6
22.5°	2523.1
25°	2465.2
27.5°	2403.3
30°	2339.3
32.5°	2273.2
35°	2203.0
37.5°	2130.8
40°	2052.3
42.5°	1969.7
45°	1868.5
47.5°	1736.4
50°	1538.2
52.5°	1247.1
55°	891.9
57.5°	559.5
60°	351.0
62.5°	266.3
65°	243.6
67.5°	233.3
70°	223.0
72.5°	208.5
75°	187.9
77.5°	163.1
80°	132.1
82.5°	101.2
85°	68.1
87.5°	37.2
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	18.25	19.72	18.61	20.03	20.35	18.25	19.72	18.61	20.03	20.35
	3H	19.14	20.45	19.52	20.77	21.14	19.14	20.45	19.52	20.77	21.14
	4H	19.75	20.97	20.15	21.32	21.70	19.75	20.97	20.15	21.32	21.70
	6H	20.35	21.47	20.76	21.84	22.23	20.35	21.47	20.76	21.84	22.23
	8H	20.58	21.65	21.01	22.04	22.44	20.58	21.65	21.01	22.04	22.44
	12H	20.77	21.79	21.20	22.17	22.60	20.77	21.79	21.20	22.17	22.60
4H	2H	18.37	19.59	18.77	19.94	20.32	18.37	19.59	18.77	19.94	20.32
	3H	19.61	20.61	20.03	21.01	21.42	19.61	20.61	20.03	21.01	21.42
	4H	20.44	21.33	20.87	21.75	22.19	20.44	21.33	20.87	21.75	22.19
	6H	21.24	22.02	21.70	22.47	22.93	21.24	22.02	21.70	22.47	22.93
	8H	21.56	22.29	22.03	22.74	23.20	21.56	22.29	22.03	22.74	23.20
	12H	21.82	22.47	22.31	22.95	23.43	21.82	22.47	22.31	22.95	23.43
8H	4H	20.75	21.48	21.22	21.93	22.39	20.75	21.48	21.22	21.93	22.39
	6H	21.72	22.33	22.22	22.82	23.30	21.72	22.33	22.22	22.82	23.30
	8H	22.14	22.69	22.66	23.20	23.69	22.14	22.69	22.66	23.20	23.69
	12H	22.51	23.00	23.02	23.50	24.06	22.51	23.00	23.02	23.50	24.06
12H	4H	20.79	21.45	21.28	21.93	22.40	20.79	21.45	21.28	21.93	22.40
	6H	21.80	22.35	22.32	22.86	23.35	21.80	22.35	22.32	22.86	23.35
	8H	22.29	22.79	22.80	23.28	23.85	22.29	22.79	22.80	23.28	23.85