

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: P980123

Luminaire Tested: PRLX-242-935-LL7-F-U-S-WHTE-X

Issue Date: 4/3/2025

Test Information

Test Method: LM-79-2024
Report Number: P980123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2502-353-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/3/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PrentaLux
Catalog Number: PRLX-242-935-LL7-F-U-S-WHTE-X
Description: 3D PRINTED LUMINAIRE, INTEGRAL LED LIGHT ENGINE, WHITE 242 SHADE WITH FROSTED LENS
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

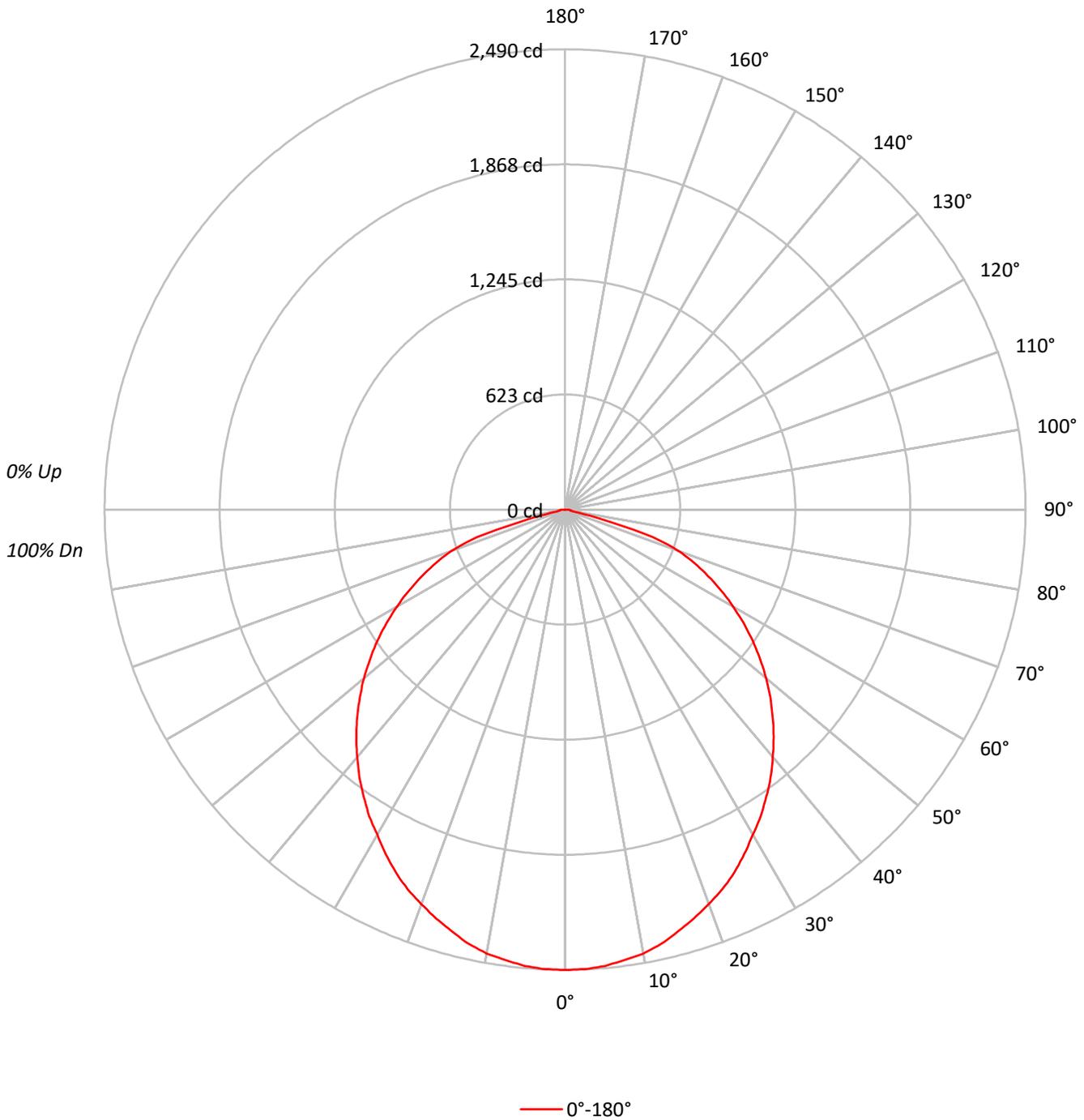
Lumens per Lamp: N/A
Luminaire Lumens: 6569.7 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.34
Luminous Opening: Circular (Dia: 1.75' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	86
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	11145
5°	11133
10°	11081
15°	10948
20°	10817
25°	10695
30°	10492
35°	10364
40°	10210
45°	10054
50°	9882
55°	9661
60°	9390
65°	9043
70°	8544
75°	3545
80°	771
85°	1227

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10054 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	3.6
10°-20°	666.8	10.1
20°-30°	996.6	15.2
30°-40°	1187.0	18.1
40°-50°	1225.5	18.7
50°-60°	1106.4	16.8
60°-70°	845.0	12.9
70°-80°	285.4	4.3
80°-90°	22.0	0.3
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°	1898.6	28.9
0°-40°	3085.6	47.0
0°-60°	5417.4	82.5
0°-90°	6569.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6569.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2490	
5°	2478	235
15°	2363	667
25°	2166	997
35°	1897	1187
45°	1589	1225
55°	1238	1106
65°	854	845
75°	205	285
85°	24	22
90°	0	

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CANDELA DISTRIBUTION (FULL):

	0°
0°	2490.4
2.5°	2488.4
5°	2478.4
7.5°	2458.5
10°	2438.6
12.5°	2406.8
15°	2363.0
17.5°	2319.2
20°	2271.4
22.5°	2223.6
25°	2165.9
27.5°	2100.2
30°	2030.5
32.5°	1968.8
35°	1897.1
37.5°	1825.5
40°	1747.8
42.5°	1670.2
45°	1588.6
47.5°	1505.0
50°	1419.4
52.5°	1329.8
55°	1238.2
57.5°	1144.7
60°	1049.1
62.5°	953.5
65°	854.0
67.5°	756.5
70°	653.0
72.5°	499.7
75°	205.0
77.5°	43.8
80°	29.9
82.5°	27.9
85°	23.9
87.5°	13.9
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	20.23	21.84	20.60	22.15	22.47	20.23	21.84	20.60	22.15	22.47
	3H	22.06	23.50	22.44	23.83	24.19	22.06	23.50	22.44	23.83	24.19
	4H	22.29	23.65	22.69	23.99	24.37	22.29	23.65	22.69	23.99	24.37
	6H	22.24	23.49	22.65	23.86	24.25	22.24	23.49	22.65	23.86	24.25
	8H	22.21	23.40	22.64	23.79	24.19	22.21	23.40	22.64	23.79	24.19
	12H	22.19	23.33	22.62	23.71	24.14	22.19	23.33	22.62	23.71	24.14
4H	2H	20.88	22.24	21.28	22.58	22.96	20.88	22.24	21.28	22.58	22.96
	3H	22.89	24.01	23.30	24.41	24.81	22.89	24.01	23.30	24.41	24.81
	4H	23.11	24.11	23.54	24.53	24.97	23.11	24.11	23.54	24.53	24.97
	6H	23.07	23.94	23.52	24.38	24.84	23.07	23.94	23.52	24.38	24.84
	8H	23.04	23.85	23.50	24.29	24.76	23.04	23.85	23.50	24.29	24.76
	12H	23.02	23.75	23.50	24.22	24.69	23.02	23.75	23.50	24.22	24.69
8H	4H	23.16	23.97	23.62	24.42	24.88	23.16	23.97	23.62	24.42	24.88
	6H	23.11	23.77	23.60	24.26	24.74	23.11	23.77	23.60	24.26	24.74
	8H	23.07	23.67	23.59	24.18	24.67	23.07	23.67	23.59	24.18	24.67
	12H	23.06	23.59	23.57	24.08	24.64	23.06	23.59	23.57	24.08	24.64
12H	4H	23.13	23.86	23.62	24.34	24.81	23.13	23.86	23.62	24.34	24.81
	6H	23.06	23.66	23.58	24.17	24.66	23.06	23.66	23.58	24.17	24.66
	8H	23.05	23.58	23.56	24.07	24.63	23.05	23.58	23.56	24.07	24.63