

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: FAIL-SAFE

Report Number: P1499579

Luminaire Tested: MAE-G-4-120-3LO-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3LO-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

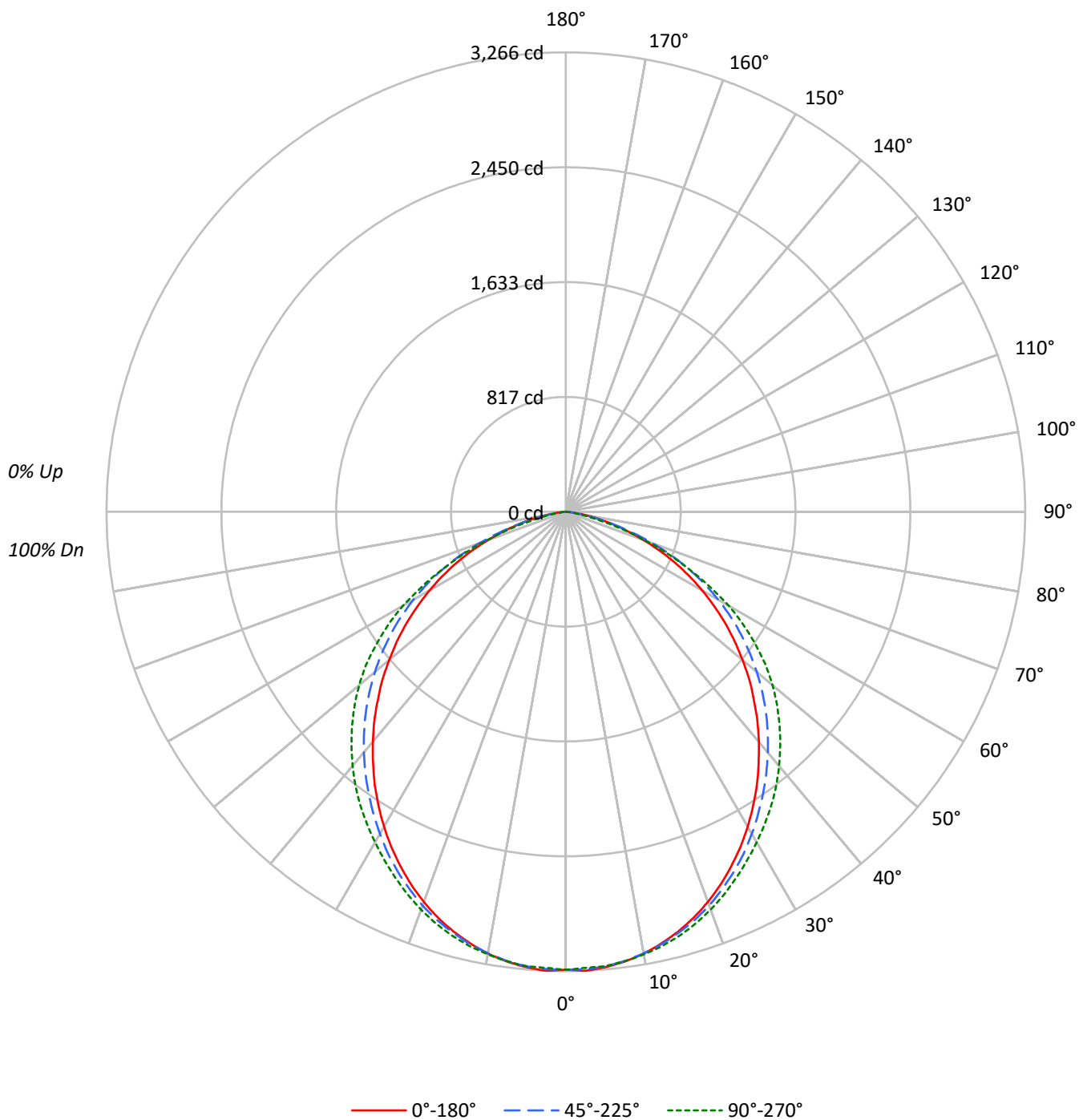
Lumens per Lamp: N/A
Luminaire Lumens: 8252.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72
Input Voltage (V): NR
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4381	4381	4381
5°	4390	4381	4379
10°	4358	4356	4366
15°	4302	4316	4348
20°	4227	4266	4310
25°	4129	4195	4261
30°	4017	4109	4216
35°	3891	4015	4184
40°	3750	3924	4142
45°	3597	3827	4090
50°	3430	3709	4017
55°	3246	3565	3862
60°	3012	3369	3604
65°	2720	3072	3087
70°	2322	2579	2399
75°	1823	1882	1476
80°	1190	969	571
85°	570	383	303

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4090 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.6	3.7
10°-20°	873.1	10.6
20°-30°	1298.6	15.7
30°-40°	1530.2	18.5
40°-50°	1551.5	18.8
50°-60°	1351.9	16.4
60°-70°	924.6	11.2
70°-80°	371.4	4.5
80°-90°	43.1	0.5
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°	2479.3	30.0
0°-40°	4009.5	48.6
0°-60°	6912.9	83.8
0°-90°	8252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3256	3256	3256	3256	3256	
5°	3250	3231	3244	3240	3242	308
15°	3089	3075	3098	3111	3121	870
25°	2782	2782	2826	2846	2870	1281
35°	2369	2380	2444	2504	2547	1480
45°	1890	1916	2011	2102	2149	1459
55°	1384	1413	1520	1615	1646	1235
65°	854	893	965	972	970	845
75°	351	374	362	311	284	377
85°	37	33	25	22	20	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3255.9	3255.9	3255.9	3255.9	3255.9
2.5°	3266.3	3244.5	3255.9	3253.5	3245.2
5°	3250.5	3230.9	3243.7	3240.0	3242.2
7.5°	3224.9	3206.9	3220.4	3219.7	3223.4
10°	3189.6	3171.5	3188.1	3191.1	3195.6
12.5°	3142.9	3127.9	3148.2	3154.2	3163.2
15°	3088.6	3075.2	3098.5	3111.3	3121.1
17.5°	3025.4	3014.1	3044.2	3056.4	3069.8
20°	2952.4	2944.2	2979.5	2990.8	3010.4
22.5°	2871.2	2866.7	2903.4	2920.8	2943.4
25°	2781.5	2782.3	2825.9	2846.4	2870.3
27.5°	2687.5	2689.0	2738.7	2767.2	2792.8
30°	2585.8	2590.3	2644.5	2680.0	2713.8
32.5°	2478.2	2487.1	2545.9	2594.1	2631.7
35°	2369.0	2379.5	2444.4	2504.5	2547.4
37.5°	2250.9	2268.2	2341.2	2412.8	2457.0
40°	2134.9	2152.2	2234.2	2313.3	2358.5
42.5°	2015.3	2037.1	2124.4	2212.4	2256.0
45°	1890.3	1915.8	2011.4	2101.8	2149.2
47.5°	1770.5	1793.1	1894.0	1988.2	2037.1
50°	1638.7	1667.4	1772.0	1870.7	1918.9
52.5°	1513.1	1539.4	1647.1	1748.1	1791.7
55°	1383.7	1413.0	1519.9	1615.4	1646.4
57.5°	1251.1	1286.5	1389.7	1469.5	1498.8
60°	1119.4	1154.7	1251.9	1317.4	1339.2
62.5°	988.3	1026.1	1111.1	1154.7	1154.7
65°	854.4	892.8	965.0	972.5	969.5
67.5°	720.5	758.9	813.8	800.2	791.2
70°	590.2	623.3	655.7	630.8	609.8
72.5°	463.7	495.3	500.7	464.6	438.1
75°	350.7	374.2	362.1	311.0	283.9
77.5°	244.6	258.2	232.6	180.7	158.9
80°	153.6	159.6	125.0	88.0	73.7
82.5°	82.9	83.5	54.2	44.4	41.4
85°	36.9	33.1	24.8	21.8	19.6
87.5°	12.8	11.3	9.0	8.3	6.8
90°	0.0	0.0	0.0	0.0	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	16.06	17.64	16.42	17.96	18.27	17.04	18.63	17.41	18.94	19.25
	3H	17.47	18.89	17.85	19.22	19.58	18.25	19.67	18.62	19.99	20.36
	4H	17.86	19.20	18.26	19.54	19.92	18.46	19.80	18.86	20.15	20.52
	6H	18.04	19.27	18.45	19.63	20.03	18.48	19.71	18.89	20.08	20.47
	8H	18.05	19.23	18.48	19.61	20.01	18.46	19.63	18.88	20.02	20.42
	12H	18.04	19.17	18.47	19.55	19.98	18.43	19.56	18.86	19.94	20.37
4H	2H	16.73	18.06	17.13	18.41	18.79	17.52	18.85	17.92	19.20	19.58
	3H	18.30	19.40	18.71	19.80	20.20	18.89	19.99	19.30	20.39	20.79
	4H	18.77	19.77	19.21	20.18	20.62	19.16	20.16	19.59	20.57	21.01
	6H	19.01	19.88	19.47	20.32	20.78	19.21	20.08	19.67	20.52	20.98
	8H	19.04	19.84	19.50	20.29	20.75	19.19	19.99	19.65	20.44	20.90
	12H	19.04	19.76	19.52	20.23	20.70	19.17	19.89	19.65	20.36	20.83
8H	4H	18.92	19.72	19.38	20.17	20.63	19.28	20.08	19.74	20.53	20.99
	6H	19.19	19.86	19.69	20.35	20.82	19.34	20.00	19.84	20.49	20.97
	8H	19.23	19.83	19.75	20.34	20.82	19.32	19.91	19.83	20.42	20.91
	12H	19.25	19.77	19.76	20.26	20.83	19.30	19.82	19.81	20.32	20.88
12H	4H	18.90	19.62	19.38	20.10	20.57	19.27	19.99	19.75	20.47	20.94
	6H	19.16	19.76	19.68	20.27	20.75	19.32	19.91	19.83	20.42	20.91
	8H	19.23	19.75	19.74	20.24	20.81	19.32	19.84	19.83	20.33	20.90