

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: P1498620

Luminaire Tested: MAE-G-2-120-3HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498620
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-2-120-3HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

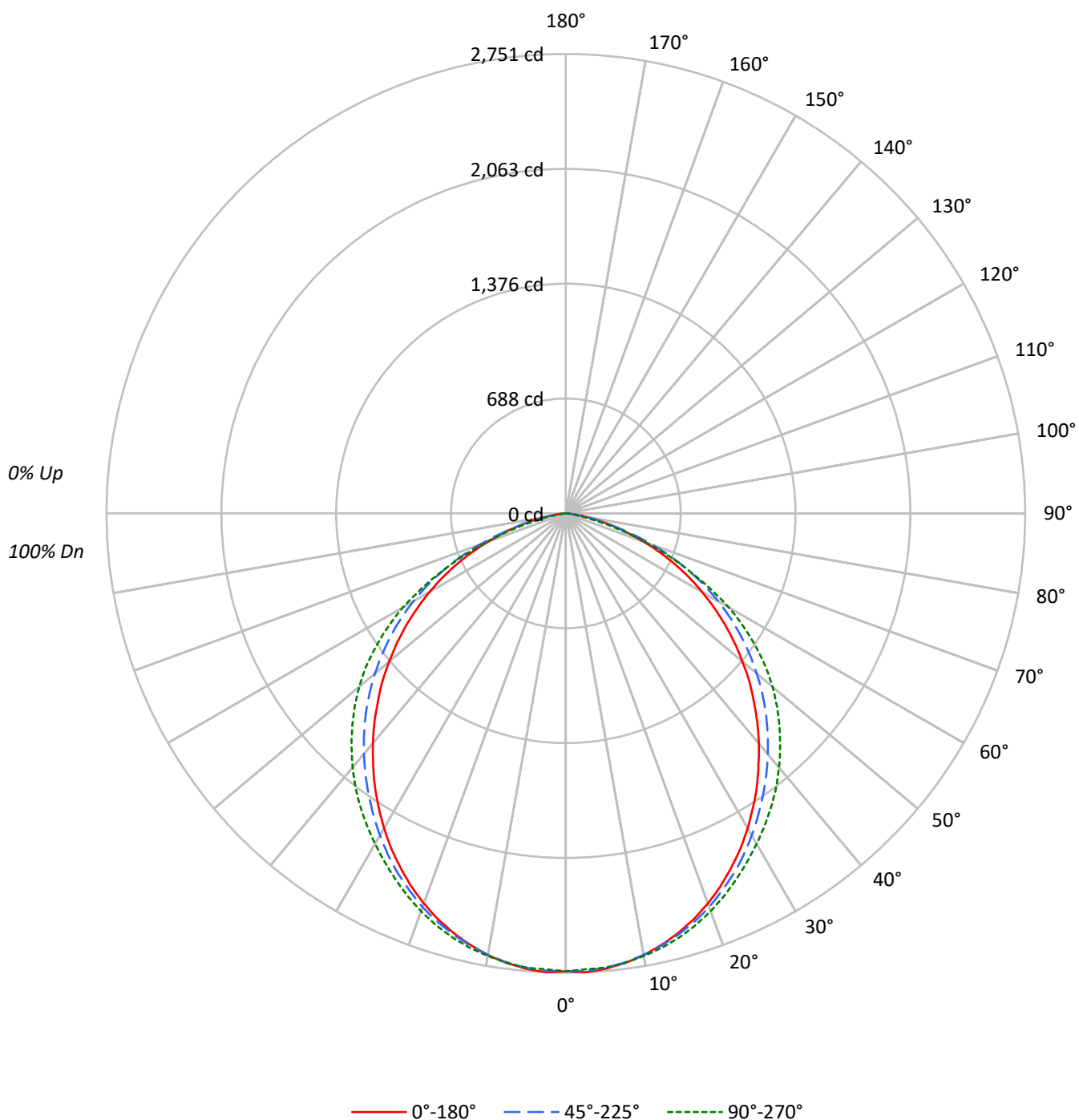
Lumens per Lamp: N/A
Luminaire Lumens: 6949.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7378	7378	7378
5°	7394	7378	7375
10°	7339	7336	7353
15°	7246	7269	7322
20°	7120	7185	7260
25°	6955	7066	7177
30°	6766	6920	7101
35°	6553	6762	7047
40°	6315	6609	6977
45°	6058	6446	6888
50°	5777	6247	6765
55°	5467	6005	6504
60°	5074	5674	6070
65°	4581	5175	5198
70°	3910	4345	4040
75°	3071	3170	2485
80°	2004	1630	962
85°	960	645	509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6888 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	3.7
10°-20°	735.3	10.6
20°-30°	1093.5	15.7
30°-40°	1288.6	18.5
40°-50°	1306.5	18.8
50°-60°	1138.5	16.4
60°-70°	778.6	11.2
70°-80°	312.8	4.5
80°-90°	36.3	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°	2087.8	30.0
0°-40°	3376.4	48.6
0°-60°	5821.4	83.8
0°-90°	6949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6949.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2742	2742	2742	2742	2742	
5°	2737	2721	2732	2728	2730	260
15°	2601	2590	2609	2620	2628	733
25°	2342	2343	2380	2397	2417	1078
35°	1995	2004	2058	2109	2145	1246
45°	1592	1613	1694	1770	1810	1229
55°	1165	1190	1280	1360	1386	1040
65°	720	752	813	819	816	711
75°	295	315	305	262	239	317
85°	31	28	21	18	16	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2741.8	2741.8	2741.8	2741.8	2741.8
2.5°	2750.6	2732.2	2741.8	2739.8	2732.8
5°	2737.3	2720.7	2731.5	2728.4	2730.3
7.5°	2715.7	2700.6	2711.9	2711.3	2714.4
10°	2686.0	2670.7	2684.7	2687.2	2691.0
12.5°	2646.6	2634.0	2651.1	2656.1	2663.7
15°	2600.9	2589.6	2609.2	2620.0	2628.3
17.5°	2547.7	2538.2	2563.5	2573.8	2585.1
20°	2486.2	2479.3	2509.0	2518.5	2535.1
22.5°	2417.8	2414.0	2445.0	2459.6	2478.6
25°	2342.3	2343.0	2379.7	2396.9	2417.1
27.5°	2263.1	2264.4	2306.3	2330.2	2351.8
30°	2177.5	2181.3	2227.0	2256.8	2285.3
32.5°	2086.9	2094.4	2143.9	2184.5	2216.2
35°	1994.9	2003.8	2058.4	2109.0	2145.1
37.5°	1895.5	1910.0	1971.5	2031.8	2069.1
40°	1797.8	1812.4	1881.5	1948.0	1986.1
42.5°	1697.1	1715.4	1789.0	1863.1	1899.8
45°	1591.8	1613.3	1693.8	1769.9	1809.9
47.5°	1491.0	1510.0	1594.9	1674.2	1715.4
50°	1380.0	1404.1	1492.2	1575.3	1615.9
52.5°	1274.2	1296.3	1387.0	1472.0	1508.7
55°	1165.2	1189.8	1279.9	1360.4	1386.4
57.5°	1053.5	1083.4	1170.2	1237.5	1262.1
60°	942.7	972.4	1054.2	1109.4	1127.8
62.5°	832.3	864.1	935.7	972.4	972.4
65°	719.5	751.9	812.7	819.0	816.4
67.5°	606.7	639.1	685.3	673.8	666.2
70°	497.0	524.9	552.2	531.2	513.5
72.5°	390.5	417.1	421.6	391.2	368.9
75°	295.4	315.1	304.9	261.9	239.0
77.5°	206.0	217.5	195.9	152.2	133.8
80°	129.3	134.4	105.2	74.1	62.1
82.5°	69.8	70.3	45.7	37.4	34.9
85°	31.1	27.9	20.9	18.4	16.5
87.5°	10.8	9.5	7.6	7.0	5.7
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	17.87	19.45	18.24	19.77	20.08	18.85	20.44	19.22	20.75	21.06
	3H	19.28	20.70	19.66	21.03	21.39	20.06	21.48	20.43	21.81	22.17
	4H	19.67	21.01	20.07	21.36	21.73	20.27	21.61	20.67	21.96	22.33
	6H	19.85	21.08	20.26	21.45	21.84	20.29	21.52	20.70	21.89	22.28
	8H	19.86	21.04	20.29	21.43	21.83	20.27	21.44	20.69	21.83	22.23
	12H	19.85	20.98	20.28	21.36	21.79	20.24	21.37	20.67	21.75	22.18
4H	2H	18.54	19.87	18.94	20.22	20.60	19.33	20.67	19.73	21.01	21.39
	3H	20.11	21.21	20.52	21.61	22.01	20.70	21.81	21.11	22.20	22.61
	4H	20.59	21.58	21.02	21.99	22.43	20.97	21.97	21.41	22.38	22.82
	6H	20.83	21.69	21.28	22.13	22.59	21.02	21.89	21.48	22.33	22.79
	8H	20.85	21.65	21.31	22.10	22.56	21.00	21.80	21.46	22.25	22.71
	12H	20.85	21.57	21.33	22.05	22.52	20.98	21.70	21.46	22.18	22.65
8H	4H	20.73	21.54	21.19	21.98	22.45	21.09	21.90	21.55	22.34	22.81
	6H	21.01	21.67	21.50	22.16	22.63	21.15	21.81	21.65	22.30	22.78
	8H	21.05	21.64	21.56	22.15	22.63	21.13	21.72	21.64	22.23	22.72
	12H	21.06	21.58	21.57	22.07	22.64	21.11	21.64	21.62	22.13	22.69
12H	4H	20.71	21.43	21.19	21.91	22.38	21.08	21.80	21.56	22.28	22.75
	6H	20.98	21.57	21.49	22.08	22.57	21.13	21.72	21.64	22.23	22.72
	8H	21.04	21.56	21.55	22.06	22.62	21.13	21.65	21.64	22.14	22.71