

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: P1498731

Luminaire Tested: MAE-G-2-120-3LO-HI-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498731
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-2-120-3LO-HI-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

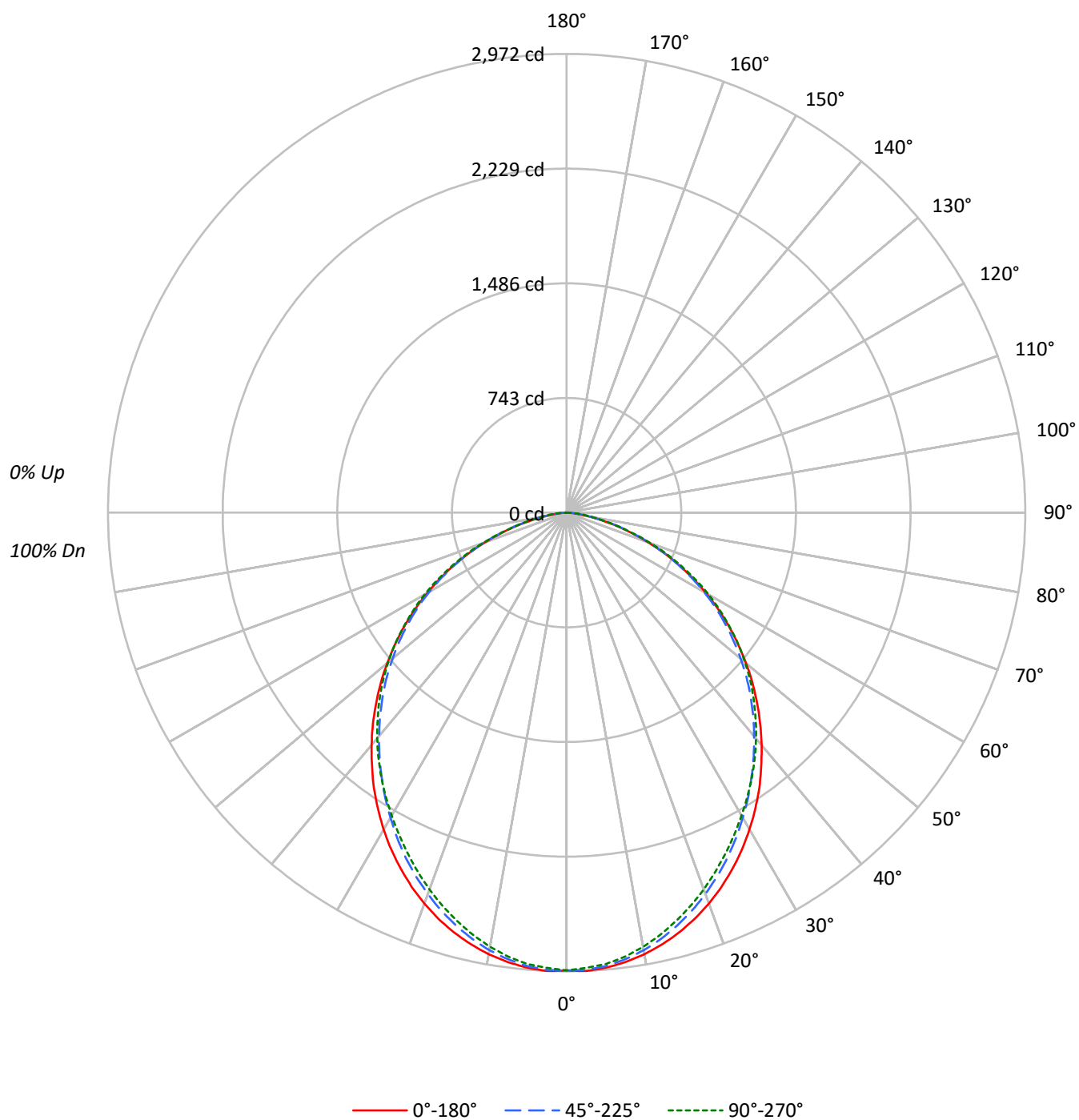
Lumens per Lamp: N/A
Luminaire Lumens: 7207.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 79.2
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			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	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64	59	55	53
5	78	65	56	50	75	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	42	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7980	7980	7980
5°	7993	7964	7928
10°	7939	7866	7803
15°	7845	7714	7631
20°	7720	7530	7438
25°	7555	7323	7233
30°	7366	7094	7043
35°	7151	6865	6877
40°	6907	6641	6707
45°	6642	6415	6524
50°	6352	6167	6317
55°	6023	5884	6050
60°	5618	5531	5731
65°	5115	5076	5230
70°	4422	4478	4563
75°	3529	3680	3649
80°	2404	2610	2670
85°	1266	1803	2316

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.8	3.9
10°-20°	780.1	10.8
20°-30°	1139.5	15.8
30°-40°	1319.7	18.3
40°-50°	1315.9	18.3
50°-60°	1133.0	15.7
60°-70°	794.4	11.0
70°-80°	373.1	5.2
80°-90°	72.6	1.0
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°	2198.4	30.5
0°-40°	3518.1	48.8
0°-60°	5966.9	82.8
0°-90°	7207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2966	2966	2966	2966	2966	
5°	2959	2949	2948	2930	2935	281
15°	2816	2796	2769	2737	2739	794
25°	2544	2512	2466	2431	2436	1172
35°	2177	2134	2090	2080	2093	1360
45°	1745	1708	1686	1700	1714	1346
55°	1284	1253	1254	1279	1290	1146
65°	803	786	797	816	821	794
75°	339	335	354	355	351	365
85°	41	46	58	70	75	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2965.5	2965.5	2965.5	2965.5	2965.5
2.5°	2972.0	2962.9	2965.5	2951.3	2951.5
5°	2959.1	2948.7	2948.3	2930.2	2935.0
7.5°	2936.3	2924.1	2918.6	2897.7	2901.4
10°	2905.5	2890.0	2878.7	2853.5	2855.8
12.5°	2864.5	2847.1	2828.6	2799.0	2802.3
15°	2816.0	2795.7	2768.9	2737.0	2739.3
17.5°	2759.9	2736.1	2703.1	2667.1	2672.0
20°	2695.9	2668.6	2629.5	2591.8	2597.5
22.5°	2623.7	2593.7	2550.1	2513.7	2518.2
25°	2544.5	2512.0	2466.5	2431.4	2436.1
27.5°	2461.0	2424.5	2376.6	2346.2	2351.8
30°	2370.6	2331.9	2283.1	2257.6	2266.6
32.5°	2275.3	2235.2	2188.1	2170.3	2181.1
35°	2176.9	2134.4	2089.7	2080.3	2093.3
37.5°	2071.3	2032.4	1991.0	1990.1	2003.0
40°	1966.3	1926.0	1890.5	1895.1	1909.4
42.5°	1857.6	1819.5	1789.3	1800.2	1812.9
45°	1745.4	1708.1	1685.7	1700.4	1714.4
47.5°	1634.1	1597.2	1581.2	1599.1	1615.0
50°	1517.4	1483.5	1473.0	1495.6	1508.9
52.5°	1399.5	1367.4	1364.2	1389.1	1403.1
55°	1283.8	1252.7	1254.1	1279.4	1289.5
57.5°	1163.5	1138.7	1142.9	1166.6	1178.4
60°	1043.8	1020.6	1027.7	1052.7	1064.9
62.5°	923.6	903.7	913.2	936.9	943.8
65°	803.3	785.6	797.2	815.9	821.3
67.5°	681.2	668.3	683.0	699.2	702.0
70°	562.0	549.0	569.1	581.2	580.0
72.5°	446.1	438.5	457.3	465.8	461.1
75°	339.4	334.6	353.9	354.7	351.0
77.5°	240.6	238.9	255.0	254.2	253.8
80°	155.1	159.4	168.4	172.8	172.3
82.5°	87.7	94.3	101.8	114.7	120.1
85°	41.0	46.4	58.4	69.9	75.0
87.5°	13.9	18.0	24.4	26.5	25.0
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	18.15	19.73	18.51	20.05	20.36	18.31	19.89	18.67	20.20	20.52
	3H	19.61	21.04	19.99	21.37	21.73	19.82	21.24	20.19	21.57	21.93
	4H	20.04	21.38	20.44	21.73	22.10	20.26	21.59	20.65	21.94	22.32
	6H	20.25	21.49	20.66	21.86	22.25	20.49	21.73	20.90	22.09	22.48
	8H	20.28	21.46	20.71	21.85	22.25	20.55	21.73	20.97	22.11	22.51
	12H	20.28	21.41	20.71	21.79	22.22	20.58	21.71	21.01	22.09	22.52
4H	2H	18.70	20.04	19.10	20.39	20.77	18.83	20.17	19.23	20.52	20.89
	3H	20.35	21.46	20.76	21.86	22.26	20.53	21.65	20.94	22.04	22.44
	4H	20.86	21.86	21.29	22.28	22.72	21.07	22.07	21.50	22.49	22.92
	6H	21.15	22.02	21.61	22.46	22.92	21.39	22.26	21.84	22.70	23.16
	8H	21.20	22.01	21.66	22.46	22.92	21.47	22.28	21.93	22.73	23.19
	12H	21.21	21.94	21.69	22.42	22.89	21.53	22.26	22.01	22.74	23.21
8H	4H	21.06	21.88	21.52	22.32	22.78	21.25	22.06	21.71	22.51	22.97
	6H	21.41	22.08	21.90	22.57	23.05	21.63	22.30	22.13	22.79	23.27
	8H	21.48	22.09	22.00	22.59	23.08	21.75	22.35	22.26	22.86	23.35
	12H	21.52	22.06	22.03	22.55	23.11	21.86	22.39	22.37	22.88	23.45
12H	4H	21.06	21.79	21.54	22.27	22.74	21.25	21.98	21.73	22.45	22.92
	6H	21.41	22.02	21.92	22.53	23.01	21.63	22.23	22.14	22.74	23.23
	8H	21.52	22.06	22.03	22.55	23.11	21.79	22.32	22.30	22.81	23.38