

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: P1498782

Luminaire Tested: MAE-G-2-120-3LO-STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498782
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-STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

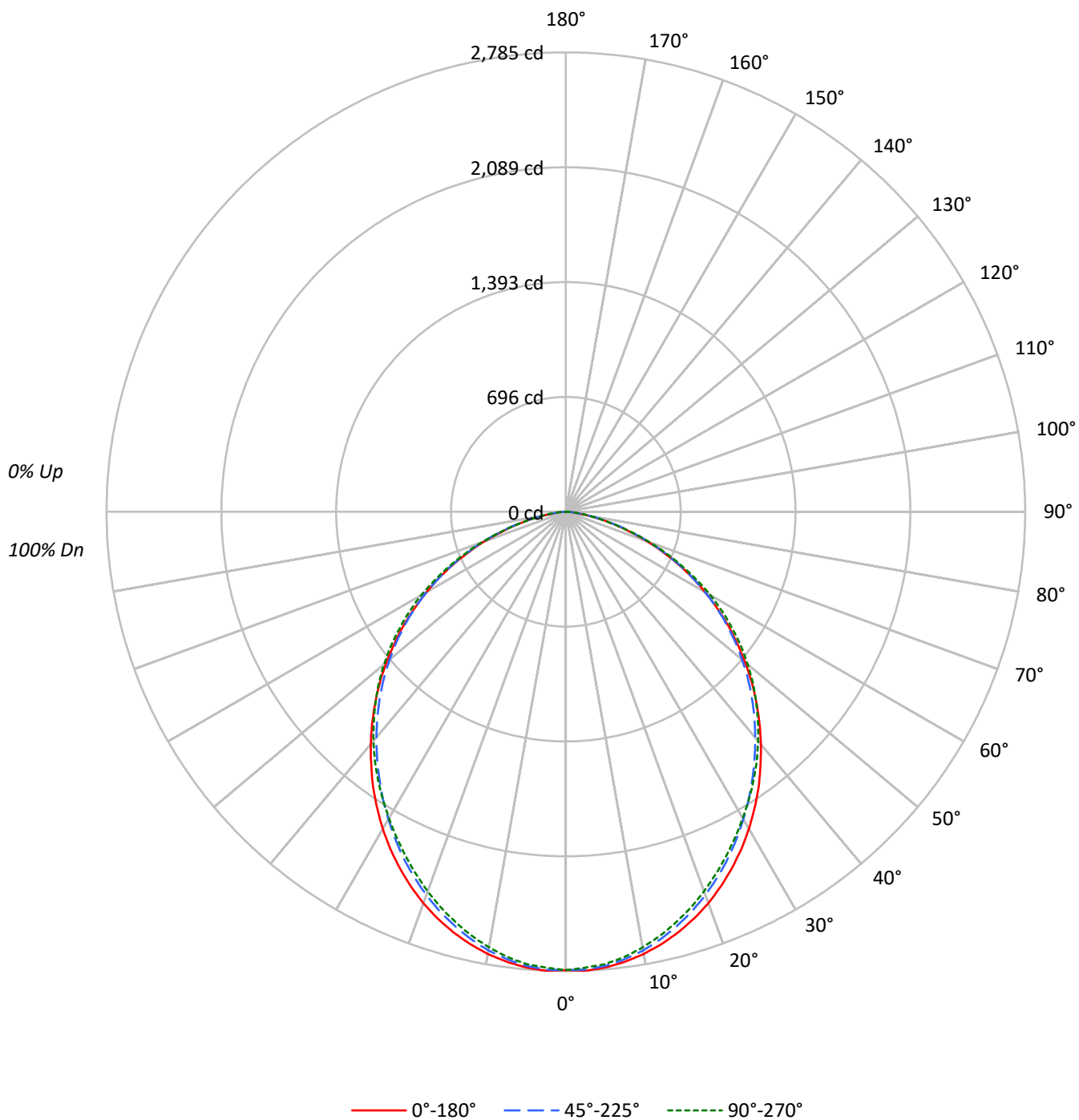
Lumens per Lamp: N/A
Luminaire Lumens: 6785.0 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 71.5
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	42	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7477	7477	7477
5°	7490	7464	7434
10°	7439	7377	7327
15°	7350	7243	7181
20°	7231	7080	7013
25°	7075	6895	6833
30°	6897	6688	6665
35°	6694	6479	6521
40°	6464	6276	6372
45°	6214	6069	6210
50°	5941	5840	6023
55°	5632	5577	5771
60°	5250	5245	5457
65°	4776	4811	4940
70°	4123	4218	4255
75°	3285	3422	3319
80°	2227	2357	2331
85°	1161	1575	1985

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	3.9
10°-20°	732.5	10.8
20°-30°	1072.2	15.8
30°-40°	1244.2	18.3
40°-50°	1243.1	18.3
50°-60°	1071.8	15.8
60°-70°	749.3	11.0
70°-80°	345.9	5.1
80°-90°	64.5	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°	2066.0	30.5
0°-40°	3310.3	48.8
0°-60°	5625.2	82.9
0°-90°	6785.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6785.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2778	2778	2778	2778	2778	
5°	2773	2762	2763	2748	2752	263
15°	2638	2620	2600	2575	2578	743
25°	2383	2356	2322	2295	2301	1097
35°	2038	2003	1972	1970	1985	1273
45°	1633	1604	1595	1616	1632	1260
55°	1200	1177	1189	1219	1230	1072
65°	750	739	756	772	776	741
75°	316	314	329	325	319	339
85°	38	42	51	60	64	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2778.5	2778.5	2778.5	2778.5	2778.5
2.5°	2784.9	2775.3	2778.5	2766.5	2765.8
5°	2772.7	2762.2	2763.1	2747.7	2751.9
7.5°	2751.3	2739.4	2736.0	2718.6	2722.1
10°	2722.3	2707.7	2699.8	2679.1	2681.5
12.5°	2683.7	2667.7	2654.4	2630.2	2633.8
15°	2638.2	2620.0	2599.9	2574.6	2577.5
17.5°	2585.5	2564.6	2540.0	2511.2	2516.5
20°	2525.1	2501.8	2472.5	2442.3	2448.9
22.5°	2457.4	2432.0	2399.2	2370.5	2376.5
25°	2382.9	2356.0	2322.2	2295.1	2301.2
27.5°	2304.5	2274.3	2239.1	2216.5	2223.7
30°	2219.5	2187.7	2152.3	2134.5	2145.1
32.5°	2129.9	2097.5	2063.8	2053.6	2066.2
35°	2037.6	2003.2	1972.3	1970.2	1985.1
37.5°	1938.5	1907.7	1880.3	1886.3	1901.4
40°	1840.0	1808.1	1786.5	1797.8	1814.0
42.5°	1738.1	1708.6	1691.7	1709.2	1724.0
45°	1632.9	1604.2	1594.8	1615.6	1631.7
47.5°	1528.8	1500.2	1496.6	1520.4	1538.4
50°	1419.1	1393.6	1394.9	1423.1	1438.8
52.5°	1309.0	1284.8	1292.4	1322.9	1338.6
55°	1200.4	1177.3	1188.7	1218.8	1230.1
57.5°	1087.7	1070.4	1083.8	1111.0	1123.6
60°	975.4	959.5	974.6	1001.7	1014.0
62.5°	862.9	849.9	865.9	889.9	895.6
65°	750.1	738.9	755.5	771.8	775.9
67.5°	635.7	628.5	646.0	658.2	659.7
70°	524.0	516.4	536.1	543.9	540.8
72.5°	415.5	412.2	428.4	431.9	425.5
75°	316.0	314.2	329.1	324.8	319.2
77.5°	223.6	223.5	234.4	228.9	226.3
80°	143.7	147.9	152.1	152.2	150.4
82.5°	80.9	86.4	89.9	99.7	103.9
85°	37.6	41.8	51.0	60.2	64.3
87.5°	12.8	16.1	21.1	22.9	21.5
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	17.92	19.51	18.29	19.82	20.14	18.18	19.76	18.54	20.08	20.39
	3H	19.38	20.80	19.76	21.13	21.49	19.65	21.07	20.02	21.40	21.76
	4H	19.80	21.14	20.20	21.49	21.87	20.06	21.40	20.46	21.75	22.12
	6H	20.01	21.25	20.42	21.61	22.01	20.26	21.50	20.67	21.86	22.25
	8H	20.04	21.22	20.46	21.61	22.01	20.30	21.48	20.73	21.87	22.27
	12H	20.04	21.17	20.47	21.55	21.98	20.33	21.46	20.76	21.84	22.27
4H	2H	18.49	19.83	18.89	20.18	20.55	18.70	20.03	19.10	20.38	20.76
	3H	20.12	21.24	20.53	21.64	22.04	20.35	21.47	20.76	21.87	22.27
	4H	20.63	21.64	21.07	22.05	22.49	20.86	21.86	21.29	22.27	22.71
	6H	20.92	21.79	21.37	22.23	22.69	21.14	22.01	21.59	22.45	22.91
	8H	20.96	21.78	21.42	22.22	22.69	21.20	22.02	21.66	22.46	22.93
	12H	20.98	21.70	21.46	22.18	22.65	21.25	21.98	21.73	22.46	22.93
8H	4H	20.83	21.64	21.29	22.08	22.55	21.03	21.84	21.49	22.29	22.75
	6H	21.17	21.84	21.66	22.33	22.80	21.37	22.04	21.86	22.53	23.00
	8H	21.24	21.84	21.75	22.35	22.83	21.47	22.07	21.98	22.58	23.06
	12H	21.27	21.80	21.78	22.30	22.86	21.55	22.09	22.06	22.58	23.14
12H	4H	20.83	21.55	21.31	22.03	22.50	21.03	21.76	21.51	22.23	22.70
	6H	21.17	21.77	21.68	22.28	22.76	21.36	21.97	21.88	22.47	22.96
	8H	21.27	21.80	21.78	22.29	22.86	21.50	22.03	22.01	22.52	23.08

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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