

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: P1498440

Luminaire Tested: MAE-G-2-120-2LO-HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

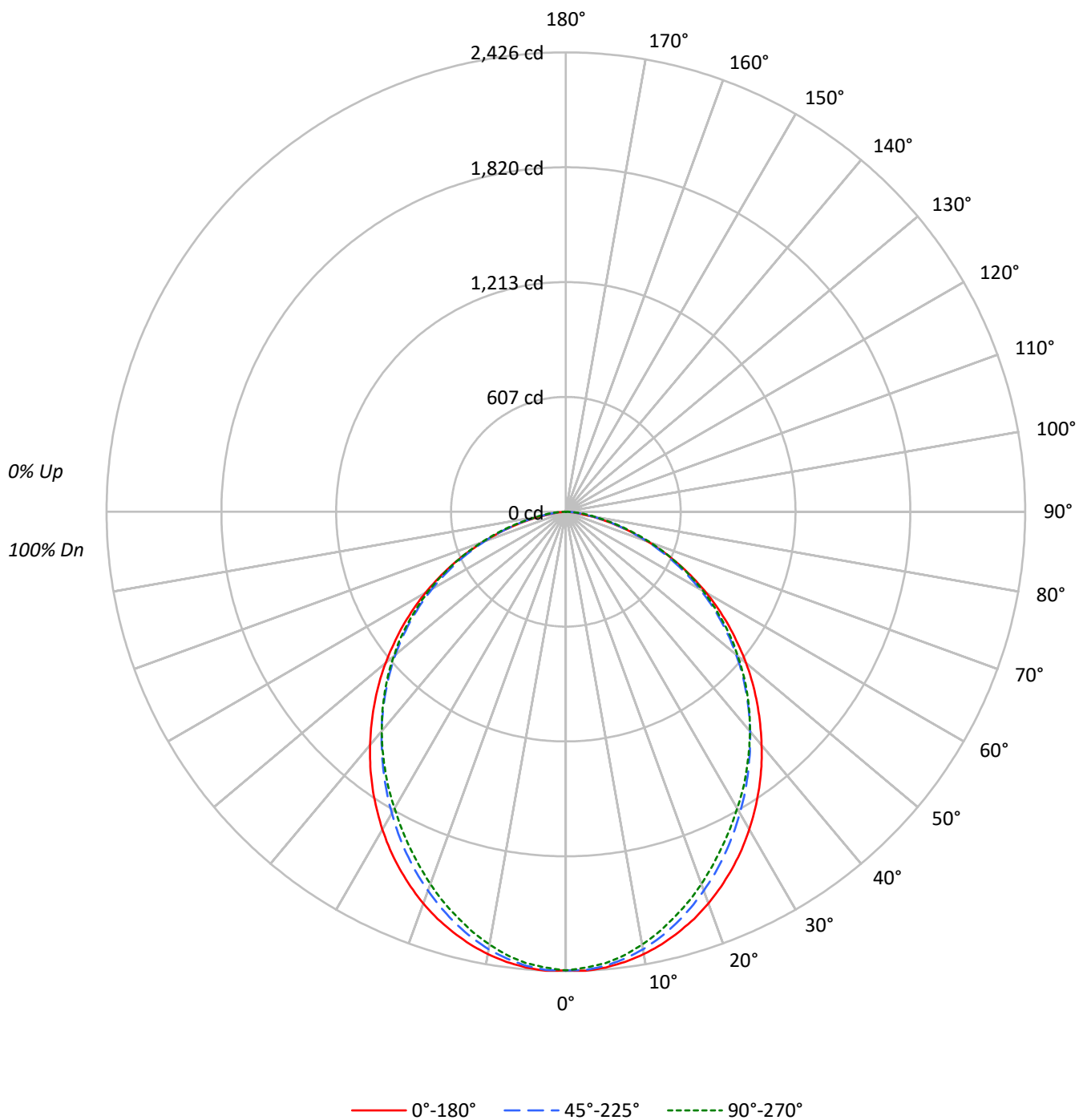
Lumens per Lamp: N/A
Luminaire Lumens: 5818.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67
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	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	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	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	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	55	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°	6517	6517	6517
5°	6526	6501	6464
10°	6482	6411	6342
15°	6405	6270	6174
20°	6304	6098	5991
25°	6174	5913	5798
30°	6021	5713	5623
35°	5848	5511	5467
40°	5650	5318	5313
45°	5436	5124	5153
50°	5202	4917	4963
55°	4931	4680	4751
60°	4607	4391	4507
65°	4201	4029	4180
70°	3641	3584	3740
75°	2915	3018	3159
80°	1999	2269	2476
85°	1059	1658	2208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5436 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	3.9
10°-20°	634.0	10.9
20°-30°	921.7	15.8
30°-40°	1062.8	18.3
40°-50°	1055.0	18.1
50°-60°	905.1	15.6
60°-70°	637.5	11.0
70°-80°	309.4	5.3
80°-90°	65.0	1.1
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°	1783.1	30.6
0°-40°	2845.9	48.9
0°-60°	4806.1	82.6
0°-90°	5818.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5818.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2422	2422	2422	2422	2422	
5°	2416	2409	2407	2389	2393	229
15°	2299	2281	2251	2216	2216	648
25°	2079	2047	1991	1954	1953	957
35°	1780	1736	1678	1659	1664	1113
45°	1428	1386	1346	1347	1354	1102
55°	1051	1015	998	1007	1013	939
65°	660	636	633	648	656	652
75°	280	271	290	300	304	302
85°	34	40	54	66	72	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2421.9	2421.9	2421.9	2421.9	2421.9
2.5°	2426.2	2421.0	2421.9	2408.2	2409.6
5°	2416.0	2409.1	2406.8	2389.1	2393.1
7.5°	2397.5	2388.4	2381.0	2360.0	2363.1
10°	2372.2	2359.9	2346.2	2319.8	2321.0
12.5°	2339.4	2324.4	2302.8	2271.6	2273.0
15°	2298.9	2280.9	2250.6	2216.0	2216.0
17.5°	2253.9	2232.8	2192.8	2155.5	2157.7
20°	2201.3	2176.7	2129.5	2090.8	2092.2
22.5°	2142.5	2114.0	2063.5	2024.2	2023.0
25°	2079.3	2046.9	1991.3	1953.8	1952.7
27.5°	2011.2	1974.8	1916.3	1880.9	1881.4
30°	1937.8	1898.8	1838.6	1807.9	1809.5
32.5°	1860.6	1819.4	1759.8	1735.2	1739.4
35°	1780.3	1736.3	1677.6	1659.4	1664.3
37.5°	1696.3	1652.7	1596.2	1584.5	1589.3
40°	1608.4	1565.6	1513.8	1506.5	1512.5
42.5°	1519.2	1477.3	1431.0	1428.2	1434.6
45°	1428.4	1386.1	1346.4	1347.3	1354.0
47.5°	1337.2	1295.6	1261.9	1265.5	1271.7
50°	1242.6	1203.1	1174.6	1180.7	1185.6
52.5°	1145.5	1108.7	1086.7	1094.6	1103.1
55°	1051.1	1015.3	997.5	1006.6	1012.6
57.5°	953.4	922.2	907.9	917.8	924.8
60°	856.0	826.5	815.9	828.7	837.4
62.5°	757.4	730.4	724.7	739.1	747.5
65°	659.7	635.9	632.8	648.1	656.5
67.5°	562.2	541.1	543.8	562.3	567.5
70°	462.8	445.4	455.5	471.3	475.4
72.5°	370.0	355.4	370.4	384.0	386.4
75°	280.4	270.8	290.3	300.1	303.8
77.5°	199.0	196.3	213.3	223.1	227.5
80°	129.0	133.0	146.4	157.6	159.8
82.5°	73.6	79.4	92.0	106.8	112.7
85°	34.3	40.5	53.7	66.0	71.5
87.5°	11.5	16.0	22.9	24.9	23.8
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	17.44	19.03	17.81	19.34	19.66	17.38	18.97	17.75	19.28	19.59
	3H	18.92	20.35	19.30	20.68	21.04	18.97	20.39	19.34	20.72	21.08
	4H	19.36	20.70	19.76	21.05	21.43	19.47	20.81	19.87	21.16	21.54
	6H	19.58	20.82	19.99	21.18	21.58	19.78	21.02	20.19	21.38	21.77
	8H	19.61	20.79	20.04	21.18	21.58	19.86	21.04	20.29	21.43	21.83
	12H	19.62	20.75	20.04	21.13	21.56	19.92	21.05	20.35	21.43	21.86
4H	2H	17.97	19.31	18.37	19.65	20.03	17.92	19.26	18.32	19.60	19.98
	3H	19.63	20.75	20.04	21.15	21.55	19.70	20.81	20.11	21.21	21.61
	4H	20.15	21.16	20.59	21.57	22.01	20.31	21.31	20.74	21.73	22.16
	6H	20.46	21.33	20.91	21.77	22.23	20.71	21.59	21.17	22.03	22.49
	8H	20.51	21.33	20.97	21.77	22.23	20.83	21.65	21.29	22.09	22.56
	12H	20.53	21.26	21.01	21.73	22.21	20.92	21.65	21.40	22.13	22.60
8H	4H	20.36	21.18	20.82	21.62	22.09	20.50	21.32	20.96	21.76	22.23
	6H	20.73	21.40	21.22	21.89	22.37	20.98	21.66	21.48	22.15	22.63
	8H	20.81	21.42	21.32	21.92	22.41	21.15	21.76	21.66	22.26	22.75
	12H	20.86	21.39	21.37	21.88	22.45	21.30	21.83	21.81	22.32	22.89
12H	4H	20.37	21.10	20.85	21.58	22.05	20.50	21.23	20.98	21.71	22.18
	6H	20.74	21.35	21.26	21.86	22.35	20.99	21.60	21.50	22.10	22.59
	8H	20.86	21.40	21.37	21.89	22.45	21.20	21.73	21.71	22.22	22.79