

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: P1499286

Luminaire Tested: MAE-G-4-120-2LO-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499286
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-4-120-2LO-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

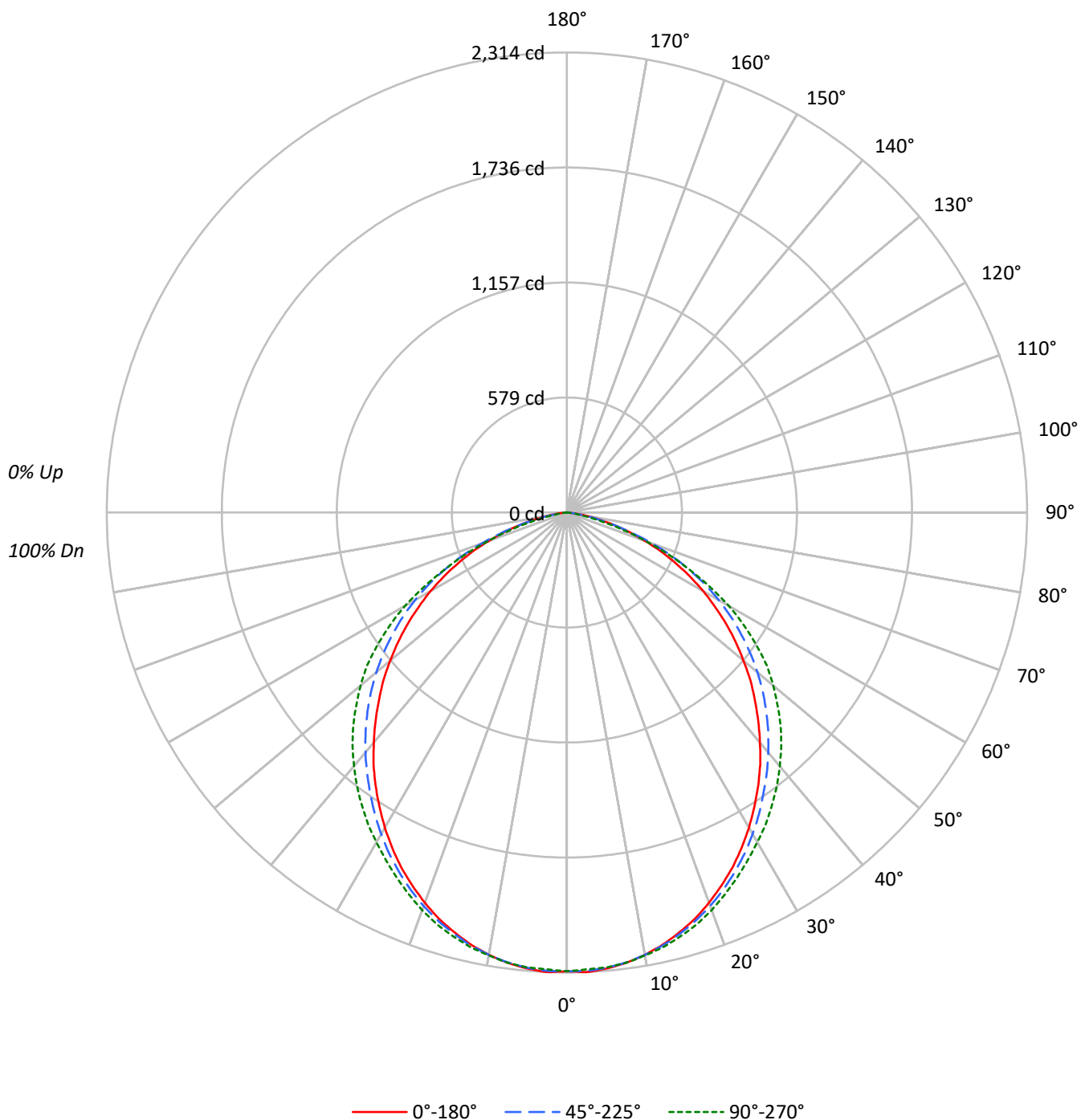
Lumens per Lamp: N/A
Luminaire Lumens: 5825.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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	97	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	58	69	62	57	67	61	56	65	59	55	53		
5	78	65	57	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	45	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	37	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°	3105	3105	3105
5°	3110	3105	3102
10°	3086	3086	3091
15°	3045	3056	3075
20°	2991	3016	3047
25°	2924	2963	3007
30°	2844	2902	2975
35°	2754	2832	2952
40°	2652	2768	2924
45°	2544	2699	2892
50°	2426	2618	2834
55°	2292	2513	2728
60°	2130	2372	2532
65°	1921	2155	2168
70°	1640	1794	1677
75°	1288	1299	1047
80°	838	668	401
85°	387	255	205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2892 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.9	3.7
10°-20°	618.2	10.6
20°-30°	918.3	15.8
30°-40°	1081.6	18.6
40°-50°	1095.8	18.8
50°-60°	953.8	16.4
60°-70°	649.9	11.2
70°-80°	259.8	4.5
80°-90°	29.7	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°	1754.4	30.1
0°-40°	2836.0	48.7
0°-60°	4885.6	83.9
0°-90°	5825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2308	2308	2308	2308	2308	
5°	2303	2290	2299	2296	2297	218
15°	2186	2177	2194	2202	2207	616
25°	1970	1971	1996	2012	2026	906
35°	1677	1685	1724	1769	1798	1048
45°	1337	1353	1418	1485	1520	1032
55°	977	998	1071	1138	1163	873
65°	603	632	677	678	681	598
75°	248	263	250	215	201	267
85°	25	23	16	15	13	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2307.6	2307.6	2307.6	2307.6	2307.6
2.5°	2314.0	2299.1	2307.6	2306.0	2299.8
5°	2302.9	2289.6	2299.1	2296.0	2296.7
7.5°	2284.9	2272.4	2282.6	2281.8	2284.2
10°	2259.1	2246.6	2259.1	2259.8	2262.2
12.5°	2226.9	2216.0	2230.8	2234.0	2239.5
15°	2186.2	2176.8	2194.0	2201.9	2207.3
17.5°	2142.3	2136.1	2153.3	2163.5	2172.1
20°	2089.0	2085.9	2106.3	2116.4	2128.1
22.5°	2031.0	2029.4	2053.8	2066.3	2078.1
25°	1969.9	1970.7	1995.8	2012.3	2025.6
27.5°	1902.5	1904.0	1934.7	1954.3	1970.7
30°	1830.4	1834.4	1868.0	1894.7	1915.1
32.5°	1754.4	1761.5	1797.5	1834.4	1860.2
35°	1676.8	1684.8	1723.9	1769.3	1797.5
37.5°	1597.0	1605.6	1651.0	1704.4	1734.1
40°	1510.0	1523.2	1575.8	1634.6	1665.0
42.5°	1424.5	1439.4	1498.3	1562.5	1595.4
45°	1336.8	1353.3	1418.2	1484.9	1520.1
47.5°	1252.2	1266.2	1336.0	1405.8	1437.1
50°	1159.0	1177.7	1250.6	1320.4	1354.0
52.5°	1069.6	1087.6	1162.1	1233.3	1267.9
55°	977.1	998.3	1071.2	1138.5	1162.8
57.5°	884.0	908.2	978.7	1034.3	1055.4
60°	791.5	815.7	881.5	925.3	941.1
62.5°	698.1	723.2	781.3	807.9	811.0
65°	603.4	631.6	677.0	677.9	681.0
67.5°	513.3	536.7	569.6	560.3	555.6
70°	416.9	442.7	456.0	437.3	426.2
72.5°	331.5	350.2	347.9	320.4	307.2
75°	247.7	262.6	249.9	214.8	201.4
77.5°	171.6	184.1	159.0	126.1	112.9
80°	108.1	113.6	86.2	61.1	51.8
82.5°	58.0	57.2	36.9	30.5	28.2
85°	25.1	22.7	16.5	14.9	13.3
87.5°	8.7	7.8	6.2	5.5	4.7
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	14.85	16.43	15.22	16.75	17.06	15.81	17.40	16.18	17.71	18.02
	3H	16.27	17.69	16.65	18.02	18.38	17.00	18.42	17.38	18.75	19.11
	4H	16.67	18.00	17.07	18.35	18.72	17.22	18.55	17.62	18.90	19.28
	6H	16.84	18.07	17.25	18.44	18.83	17.24	18.47	17.65	18.83	19.22
	8H	16.85	18.03	17.28	18.42	18.82	17.21	18.38	17.64	18.77	19.17
	12H	16.84	17.97	17.27	18.35	18.78	17.19	18.31	17.62	18.69	19.12
4H	2H	15.51	16.85	15.91	17.19	17.57	16.29	17.62	16.69	17.97	18.35
	3H	17.09	18.20	17.50	18.59	18.99	17.64	18.74	18.05	19.14	19.54
	4H	17.57	18.56	18.00	18.97	19.41	17.91	18.90	18.34	19.31	19.75
	6H	17.81	18.67	18.26	19.11	19.57	17.96	18.82	18.41	19.26	19.72
	8H	17.83	18.63	18.29	19.08	19.54	17.93	18.74	18.39	19.18	19.65
	12H	17.83	18.55	18.31	19.02	19.49	17.91	18.63	18.39	19.11	19.58
8H	4H	17.70	18.51	18.17	18.95	19.42	18.02	18.82	18.48	19.27	19.73
	6H	17.98	18.64	18.48	19.13	19.61	18.08	18.74	18.57	19.23	19.71
	8H	18.02	18.61	18.53	19.12	19.60	18.06	18.65	18.57	19.16	19.64
	12H	18.03	18.55	18.54	19.04	19.61	18.04	18.56	18.55	19.05	19.62
12H	4H	17.69	18.40	18.17	18.88	19.35	18.01	18.73	18.49	19.20	19.67
	6H	17.95	18.54	18.46	19.05	19.54	18.06	18.65	18.57	19.16	19.64
	8H	18.01	18.53	18.52	19.02	19.59	18.06	18.58	18.56	19.07	19.63