

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: P1499292

Luminaire Tested: MAE-G-4-120-2LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499292
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-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

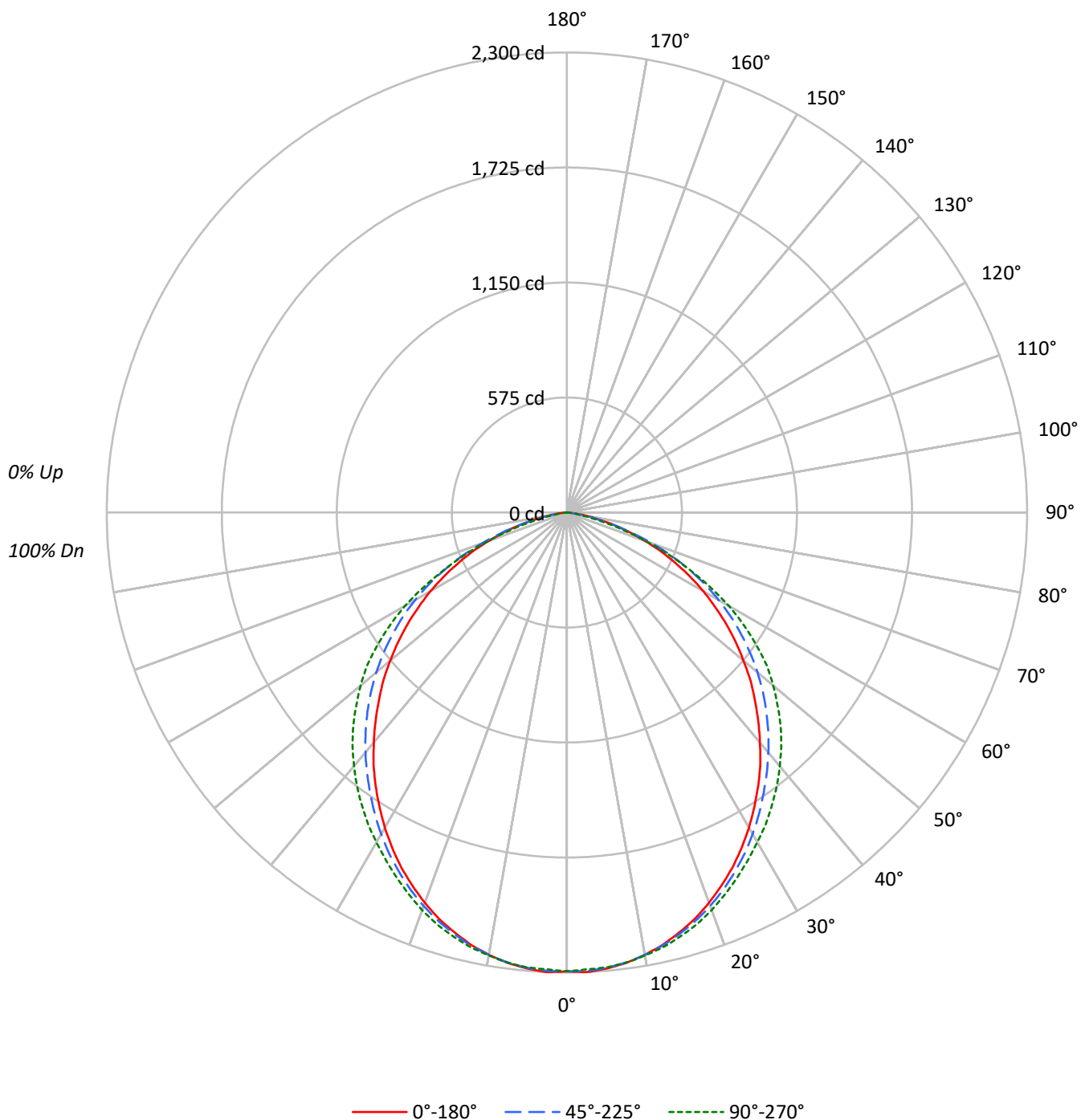
Lumens per Lamp: N/A
Luminaire Lumens: 5790.0 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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	97	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	58	69	62	57		67	61	56		65
5	78	65	57	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	45	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	37	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°	3086	3086	3086
5°	3092	3087	3083
10°	3068	3068	3072
15°	3027	3038	3056
20°	2973	2998	3029
25°	2907	2945	2989
30°	2827	2885	2958
35°	2738	2815	2935
40°	2636	2751	2907
45°	2528	2682	2875
50°	2411	2602	2817
55°	2278	2498	2711
60°	2117	2358	2517
65°	1910	2142	2155
70°	1630	1783	1667
75°	1280	1291	1041
80°	832	664	399
85°	386	253	205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2875 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	3.7
10°-20°	614.4	10.6
20°-30°	912.8	15.8
30°-40°	1075.1	18.6
40°-50°	1089.2	18.8
50°-60°	948.0	16.4
60°-70°	646.0	11.2
70°-80°	258.2	4.5
80°-90°	29.6	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°	1743.8	30.1
0°-40°	2819.0	48.7
0°-60°	4856.2	83.9
0°-90°	5790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2294	2294	2294	2294	2294	
5°	2289	2276	2285	2282	2283	217
15°	2173	2164	2181	2189	2194	612
25°	1958	1959	1984	2000	2013	901
35°	1667	1675	1714	1759	1787	1042
45°	1329	1345	1410	1476	1511	1026
55°	971	992	1065	1132	1156	868
65°	600	628	673	674	677	594
75°	246	261	248	214	200	265
85°	25	23	16	15	13	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2293.7	2293.7	2293.7	2293.7	2293.7
2.5°	2300.1	2285.3	2293.7	2292.2	2286.0
5°	2289.1	2275.8	2285.3	2282.2	2282.9
7.5°	2271.2	2258.8	2268.9	2268.1	2270.5
10°	2245.5	2233.1	2245.5	2246.2	2248.6
12.5°	2213.5	2202.6	2217.4	2220.5	2226.0
15°	2173.0	2163.7	2180.8	2188.7	2194.0
17.5°	2129.5	2123.3	2140.3	2150.5	2159.1
20°	2076.5	2073.4	2093.7	2103.7	2115.4
22.5°	2018.8	2017.2	2041.5	2053.9	2065.6
25°	1958.0	1958.9	1983.8	2000.2	2013.4
27.5°	1891.0	1892.6	1923.1	1942.5	1958.9
30°	1819.4	1823.4	1856.8	1883.3	1903.6
32.5°	1743.9	1750.9	1786.7	1823.4	1849.0
35°	1666.7	1674.7	1713.6	1758.7	1786.7
37.5°	1587.4	1596.0	1641.1	1694.1	1723.7
40°	1501.0	1514.0	1566.4	1624.7	1655.0
42.5°	1415.9	1430.7	1489.3	1553.1	1585.8
45°	1328.8	1345.2	1409.7	1476.0	1510.9
47.5°	1244.6	1258.6	1328.0	1397.3	1428.5
50°	1152.0	1170.6	1243.1	1312.5	1345.9
52.5°	1063.2	1081.1	1155.1	1225.9	1260.3
55°	971.3	992.3	1064.7	1131.7	1155.8
57.5°	878.6	902.7	972.8	1028.1	1049.1
60°	786.7	810.8	876.2	919.8	935.5
62.5°	693.9	718.9	776.6	803.1	806.2
65°	599.8	627.8	672.9	673.8	676.9
67.5°	510.2	533.5	566.2	556.9	552.3
70°	414.4	440.0	453.3	434.7	423.7
72.5°	329.5	348.1	345.8	318.5	305.4
75°	246.2	261.0	248.4	213.5	200.2
77.5°	170.6	183.0	158.0	125.3	112.2
80°	107.4	112.9	85.7	60.8	51.5
82.5°	57.7	56.8	36.7	30.3	28.1
85°	25.0	22.6	16.4	14.8	13.3
87.5°	8.6	7.7	6.2	5.5	4.6
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	14.83	16.41	15.20	16.73	17.04	15.79	17.37	16.16	17.69	18.00
	3H	16.25	17.67	16.63	18.00	18.36	16.98	18.40	17.36	18.73	19.09
	4H	16.65	17.98	17.04	18.33	18.70	17.20	18.53	17.60	18.88	19.26
	6H	16.82	18.05	17.23	18.42	18.81	17.22	18.45	17.63	18.81	19.20
	8H	16.83	18.01	17.26	18.39	18.79	17.19	18.36	17.62	18.75	19.15
	12H	16.82	17.95	17.25	18.33	18.76	17.17	18.29	17.60	18.67	19.10
4H	2H	15.49	16.82	15.89	17.17	17.55	16.27	17.60	16.67	17.95	18.32
	3H	17.07	18.17	17.48	18.57	18.97	17.62	18.72	18.03	19.12	19.52
	4H	17.55	18.54	17.98	18.95	19.39	17.88	18.88	18.32	19.29	19.73
	6H	17.79	18.65	18.24	19.09	19.55	17.94	18.80	18.39	19.24	19.70
	8H	17.81	18.61	18.27	19.06	19.52	17.91	18.71	18.37	19.16	19.62
	12H	17.81	18.52	18.29	19.00	19.47	17.89	18.61	18.37	19.08	19.56
8H	4H	17.68	18.49	18.14	18.93	19.40	18.00	18.80	18.46	19.25	19.71
	6H	17.96	18.62	18.45	19.11	19.59	18.06	18.72	18.55	19.21	19.69
	8H	18.00	18.59	18.51	19.10	19.58	18.03	18.63	18.55	19.13	19.62
	12H	18.01	18.53	18.52	19.02	19.59	18.02	18.54	18.53	19.03	19.60
12H	4H	17.66	18.38	18.15	18.86	19.33	17.99	18.71	18.47	19.18	19.65
	6H	17.93	18.52	18.44	19.03	19.52	18.03	18.63	18.55	19.14	19.62
	8H	17.99	18.51	18.50	19.00	19.57	18.03	18.56	18.54	19.05	19.61

END OF REPORT