

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: P1498476

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498476
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-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

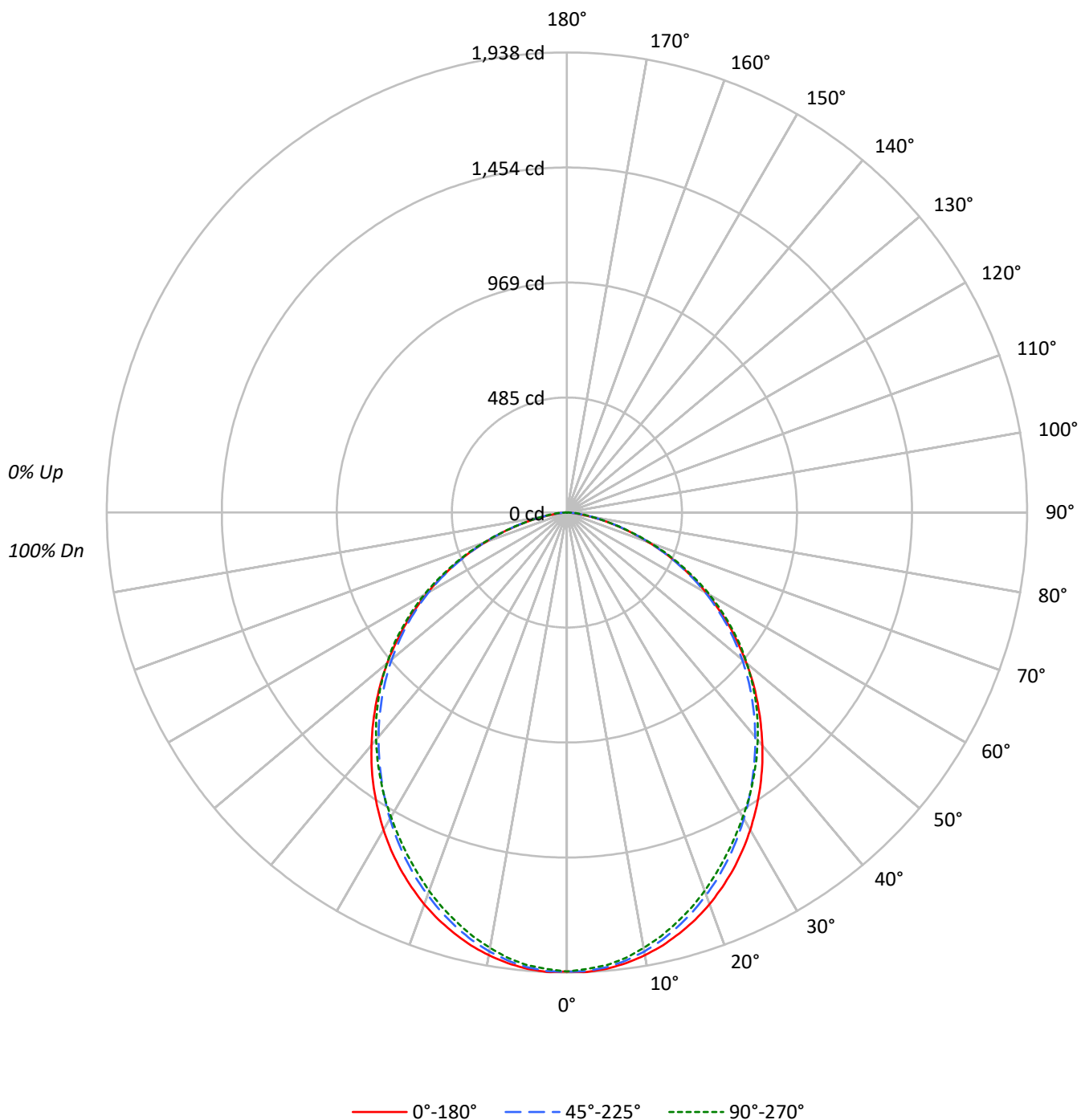
Lumens per Lamp: N/A
Luminaire Lumens: 4699.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5204	5204	5204
5°	5212	5194	5170
10°	5175	5131	5090
15°	5112	5033	4980
20°	5029	4911	4857
25°	4923	4776	4722
30°	4799	4630	4602
35°	4658	4479	4497
40°	4496	4335	4391
45°	4323	4189	4280
50°	4134	4031	4141
55°	3916	3844	3969
60°	3654	3612	3745
65°	3324	3306	3405
70°	2872	2895	2947
75°	2289	2358	2349
80°	1553	1657	1683
85°	803	1124	1442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4323 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.8	3.9
10°-20°	508.9	10.8
20°-30°	743.6	15.8
30°-40°	861.7	18.3
40°-50°	859.6	18.3
50°-60°	740.0	15.7
60°-70°	517.1	11.0
70°-80°	240.5	5.1
80°-90°	45.9	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°	1434.3	30.5
0°-40°	2296.0	48.9
0°-60°	3895.6	82.9
0°-90°	4699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1929	1922	1923	1911	1914	183
15°	1835	1822	1806	1787	1788	517
25°	1658	1638	1609	1589	1590	763
35°	1418	1392	1363	1361	1369	886
45°	1136	1113	1101	1114	1125	876
55°	835	817	819	838	846	745
65°	522	513	519	529	535	516
75°	220	217	227	226	226	237
85°	26	29	36	44	47	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1933.8	1933.8	1933.8	1933.8	1933.8
2.5°	1937.7	1931.7	1933.8	1925.1	1924.8
5°	1929.4	1922.5	1922.9	1911.4	1914.1
7.5°	1914.6	1906.5	1903.9	1890.7	1893.1
10°	1894.0	1884.0	1877.9	1861.7	1862.9
12.5°	1867.7	1856.3	1845.8	1827.0	1829.0
15°	1834.9	1821.9	1806.5	1786.6	1787.6
17.5°	1798.8	1784.5	1763.0	1742.0	1745.0
20°	1756.1	1740.3	1715.0	1693.1	1696.2
22.5°	1708.8	1690.9	1664.3	1642.4	1643.8
25°	1658.2	1638.3	1608.7	1588.7	1590.5
27.5°	1603.3	1581.1	1550.7	1532.6	1536.1
30°	1544.3	1520.9	1490.1	1476.2	1481.0
32.5°	1482.1	1458.1	1428.0	1419.8	1427.3
35°	1417.9	1392.1	1363.3	1360.7	1369.0
37.5°	1350.8	1325.6	1299.2	1302.1	1310.7
40°	1280.0	1256.1	1234.1	1240.7	1250.1
42.5°	1208.7	1185.6	1168.1	1178.6	1188.8
45°	1136.0	1113.0	1100.7	1113.9	1124.7
47.5°	1063.6	1040.5	1033.0	1048.4	1058.1
50°	987.5	966.6	962.8	979.8	989.2
52.5°	910.5	891.2	891.7	910.1	921.8
55°	834.6	816.6	819.4	837.7	846.0
57.5°	756.6	742.0	746.5	763.1	771.4
60°	679.0	665.3	671.2	687.5	695.8
62.5°	600.4	588.4	595.8	609.8	615.5
65°	522.0	512.7	519.2	529.0	534.7
67.5°	444.7	436.0	444.0	453.6	456.0
70°	365.0	359.1	367.9	374.1	374.5
72.5°	291.5	285.9	294.8	298.0	297.0
75°	220.2	217.1	226.8	226.2	225.9
77.5°	155.5	156.2	162.0	161.8	162.0
80°	100.2	103.7	106.9	108.9	108.6
82.5°	56.5	59.9	63.9	71.9	75.0
85°	26.0	29.4	36.4	43.6	46.7
87.5°	8.8	11.4	15.3	16.5	15.7
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	16.66	18.24	17.02	18.56	18.87	16.84	18.43	17.21	18.74	19.06
	3H	18.13	19.55	18.50	19.88	20.24	18.33	19.75	18.70	20.08	20.44
	4H	18.55	19.89	18.95	20.24	20.61	18.75	20.09	19.15	20.44	20.82
	6H	18.76	20.00	19.17	20.36	20.75	18.97	20.21	19.38	20.58	20.97
	8H	18.79	19.97	19.21	20.36	20.76	19.02	20.20	19.45	20.59	20.99
	12H	18.79	19.92	19.22	20.30	20.73	19.05	20.18	19.48	20.57	20.99
4H	2H	17.21	18.55	17.61	18.90	19.28	17.36	18.70	17.76	19.05	19.43
	3H	18.86	19.97	19.27	20.37	20.77	19.03	20.14	19.44	20.54	20.94
	4H	19.37	20.37	19.80	20.78	21.22	19.55	20.55	19.98	20.97	21.41
	6H	19.66	20.53	20.11	20.97	21.43	19.85	20.73	20.31	21.17	21.63
	8H	19.70	20.51	20.16	20.96	21.42	19.93	20.74	20.39	21.19	21.65
	12H	19.71	20.44	20.20	20.92	21.39	19.99	20.71	20.47	21.19	21.66
8H	4H	19.56	20.37	20.02	20.82	21.28	19.73	20.54	20.19	20.98	21.45
	6H	19.90	20.58	20.40	21.07	21.54	20.09	20.76	20.59	21.25	21.73
	8H	19.98	20.58	20.49	21.09	21.57	20.20	20.80	20.71	21.31	21.80
	12H	20.01	20.54	20.52	21.04	21.60	20.30	20.83	20.81	21.32	21.89
12H	4H	19.56	20.29	20.04	20.77	21.24	19.72	20.45	20.21	20.93	21.40
	6H	19.91	20.51	20.42	21.02	21.50	20.09	20.69	20.60	21.20	21.69
	8H	20.01	20.54	20.52	21.04	21.60	20.24	20.77	20.74	21.26	21.82

END OF REPORT