

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: P1498335

Luminaire Tested: MAE-G-2-120-2HI-50

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498335
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-2-120-2HI-50
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

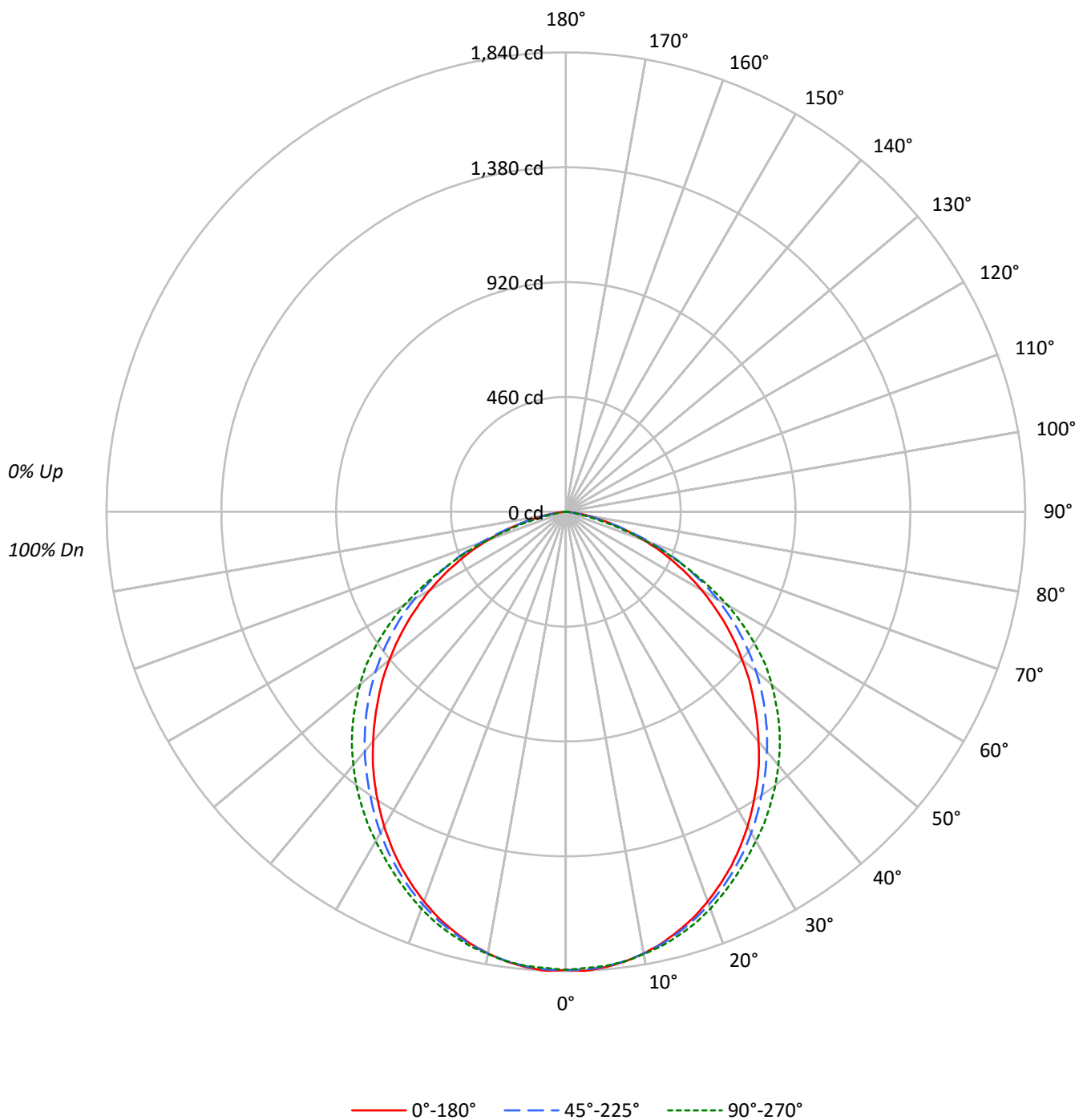
Lumens per Lamp: N/A
Luminaire Lumens: 4632.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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°	4938	4938	4938
5°	4947	4938	4933
10°	4909	4909	4915
15°	4843	4860	4890
20°	4757	4796	4846
25°	4651	4712	4783
30°	4523	4616	4732
35°	4380	4504	4696
40°	4218	4402	4651
45°	4046	4292	4600
50°	3858	4163	4508
55°	3645	3996	4338
60°	3387	3773	4028
65°	3055	3428	3448
70°	2608	2853	2666
75°	2047	2066	1666
80°	1331	1063	638
85°	618	404	327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4600 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	3.7
10°-20°	491.6	10.6
20°-30°	730.2	15.8
30°-40°	860.1	18.6
40°-50°	871.4	18.8
50°-60°	758.4	16.4
60°-70°	516.8	11.2
70°-80°	206.6	4.5
80°-90°	23.6	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°	1395.1	30.1
0°-40°	2255.2	48.7
0°-60°	3885.0	83.9
0°-90°	4632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1835	1835	1835	1835	1835	
5°	1831	1821	1828	1826	1826	174
15°	1738	1731	1745	1751	1755	490
25°	1566	1567	1587	1600	1611	721
35°	1333	1340	1371	1407	1429	833
45°	1063	1076	1128	1181	1209	820
55°	777	794	852	905	925	694
65°	480	502	538	539	542	475
75°	197	209	199	171	160	212
85°	20	18	13	12	11	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1835.0	1835.0	1835.0	1835.0	1835.0
2.5°	1840.1	1828.2	1835.0	1833.7	1828.8
5°	1831.2	1820.6	1828.2	1825.7	1826.3
7.5°	1816.9	1807.0	1815.1	1814.4	1816.4
10°	1796.4	1786.5	1796.4	1797.0	1798.9
12.5°	1770.8	1762.1	1774.0	1776.4	1780.8
15°	1738.4	1731.0	1744.6	1751.0	1755.2
17.5°	1703.6	1698.6	1712.3	1720.4	1727.3
20°	1661.2	1658.7	1674.9	1682.9	1692.3
22.5°	1615.0	1613.8	1633.2	1643.1	1652.5
25°	1566.4	1567.1	1587.1	1600.2	1610.8
27.5°	1512.8	1514.1	1538.5	1554.0	1567.1
30°	1455.5	1458.7	1485.4	1506.6	1522.9
32.5°	1395.1	1400.7	1429.4	1458.7	1479.2
35°	1333.4	1339.7	1370.9	1406.9	1429.4
37.5°	1269.9	1276.8	1312.9	1355.3	1379.0
40°	1200.8	1211.2	1253.1	1299.8	1324.0
42.5°	1132.7	1144.6	1191.4	1242.5	1268.7
45°	1063.1	1076.1	1127.8	1180.8	1208.8
47.5°	995.7	1006.9	1062.4	1117.9	1142.8
50°	921.6	936.5	994.5	1050.0	1076.7
52.5°	850.6	864.9	924.1	980.7	1008.2
55°	777.0	793.8	851.8	905.4	924.6
57.5°	702.9	722.2	778.2	822.5	839.3
60°	629.4	648.7	701.0	735.8	748.4
62.5°	555.1	575.1	621.2	642.5	644.9
65°	479.8	502.3	538.3	539.0	541.5
67.5°	408.2	426.8	453.0	445.5	441.8
70°	331.5	352.0	362.6	347.7	338.9
72.5°	263.6	278.5	276.7	254.8	244.3
75°	196.9	208.8	198.7	170.8	160.2
77.5°	136.5	146.4	126.4	100.3	89.8
80°	85.9	90.3	68.6	48.6	41.2
82.5°	46.1	45.4	29.3	24.2	22.4
85°	20.0	18.0	13.1	11.8	10.6
87.5°	6.9	6.2	5.0	4.4	3.7
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	16.46	18.05	16.83	18.36	18.67	17.43	19.01	17.79	19.32	19.64
	3H	17.89	19.31	18.26	19.63	19.99	18.62	20.04	18.99	20.36	20.72
	4H	18.28	19.61	18.68	19.96	20.34	18.83	20.16	19.23	20.51	20.89
	6H	18.45	19.68	18.86	20.05	20.44	18.85	20.08	19.26	20.44	20.84
	8H	18.47	19.64	18.89	20.03	20.43	18.82	20.00	19.25	20.39	20.79
	12H	18.46	19.58	18.89	19.96	20.39	18.80	19.92	19.23	20.30	20.73
4H	2H	17.13	18.46	17.52	18.81	19.18	17.90	19.23	18.30	19.58	19.96
	3H	18.70	19.81	19.11	20.21	20.61	19.25	20.35	19.66	20.75	21.15
	4H	19.18	20.17	19.61	20.59	21.02	19.52	20.51	19.95	20.92	21.36
	6H	19.42	20.28	19.88	20.72	21.18	19.57	20.43	20.02	20.87	21.33
	8H	19.44	20.24	19.90	20.69	21.15	19.54	20.35	20.01	20.79	21.26
	12H	19.44	20.16	19.92	20.63	21.11	19.52	20.24	20.00	20.72	21.19
8H	4H	19.32	20.12	19.78	20.56	21.03	19.63	20.43	20.09	20.88	21.34
	6H	19.59	20.25	20.09	20.74	21.22	19.69	20.35	20.19	20.84	21.32
	8H	19.63	20.22	20.14	20.73	21.22	19.67	20.26	20.18	20.77	21.26
	12H	19.64	20.16	20.15	20.65	21.22	19.65	20.17	20.16	20.66	21.23
12H	4H	19.30	20.01	19.78	20.49	20.96	19.62	20.34	20.10	20.82	21.29
	6H	19.56	20.15	20.07	20.66	21.15	19.67	20.26	20.18	20.77	21.26
	8H	19.62	20.14	20.13	20.64	21.20	19.67	20.19	20.18	20.68	21.24

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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