

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: P1498464

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498464
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-35-90
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

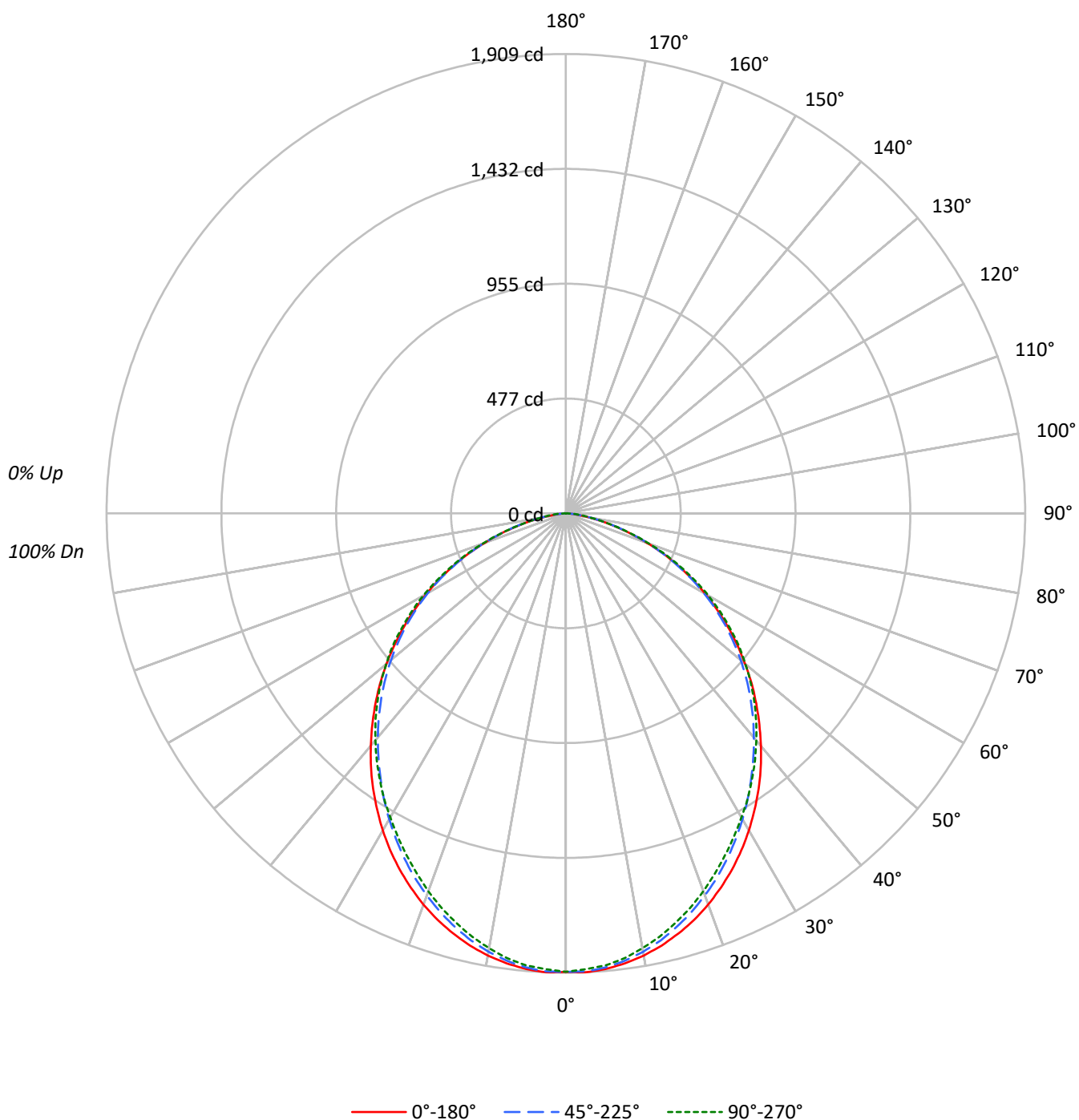
Lumens per Lamp: N/A
Luminaire Lumens: 4629.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5127	5127	5127
5°	5134	5117	5093
10°	5098	5055	5015
15°	5036	4958	4906
20°	4954	4838	4785
25°	4850	4705	4652
30°	4727	4561	4534
35°	4588	4412	4431
40°	4430	4271	4326
45°	4259	4127	4216
50°	4073	3971	4079
55°	3857	3787	3910
60°	3600	3559	3689
65°	3275	3258	3354
70°	2829	2851	2903
75°	2255	2323	2313
80°	1530	1630	1657
85°	790	1102	1420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4259 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	3.9
10°-20°	501.3	10.8
20°-30°	732.5	15.8
30°-40°	848.9	18.3
40°-50°	846.8	18.3
50°-60°	729.0	15.7
60°-70°	509.4	11.0
70°-80°	236.9	5.1
80°-90°	45.1	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°	1412.9	30.5
0°-40°	2261.8	48.9
0°-60°	3837.6	82.9
0°-90°	4629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1901	1894	1894	1883	1886	180
15°	1808	1795	1780	1760	1761	510
25°	1634	1614	1585	1565	1567	752
35°	1397	1371	1343	1340	1349	873
45°	1119	1096	1084	1097	1108	863
55°	822	804	807	825	833	734
65°	514	505	512	521	527	509
75°	217	214	223	223	222	233
85°	26	29	36	43	46	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1905.1	1905.1	1905.1	1905.1	1905.1
2.5°	1908.9	1903.0	1905.1	1896.5	1896.1
5°	1900.6	1893.9	1894.3	1883.0	1885.5
7.5°	1886.0	1878.1	1875.5	1862.6	1864.9
10°	1865.8	1856.0	1849.9	1834.0	1835.2
12.5°	1839.8	1828.6	1818.3	1799.8	1801.7
15°	1807.6	1794.8	1779.6	1760.0	1761.0
17.5°	1772.0	1758.0	1736.8	1716.0	1718.9
20°	1730.0	1714.5	1689.5	1667.8	1670.8
22.5°	1683.3	1665.7	1639.5	1617.9	1619.4
25°	1633.5	1613.9	1584.7	1565.0	1566.8
27.5°	1579.4	1557.6	1527.7	1509.8	1513.2
30°	1521.3	1498.3	1467.9	1454.2	1459.0
32.5°	1460.1	1436.4	1406.8	1398.7	1406.1
35°	1396.7	1371.4	1343.0	1340.4	1348.7
37.5°	1330.7	1305.8	1279.9	1282.6	1291.2
40°	1261.0	1237.4	1215.7	1222.2	1231.5
42.5°	1190.7	1168.0	1150.7	1161.1	1171.1
45°	1119.1	1096.4	1084.4	1097.3	1107.9
47.5°	1047.8	1025.0	1017.5	1032.7	1042.4
50°	972.8	952.2	948.5	965.2	974.4
52.5°	897.0	877.9	878.4	896.6	908.1
55°	822.2	804.4	807.2	825.3	833.4
57.5°	745.4	730.9	735.4	751.8	760.0
60°	668.9	655.4	661.2	677.2	685.4
62.5°	591.4	579.6	587.0	600.7	606.4
65°	514.3	505.0	511.6	521.1	526.7
67.5°	438.1	429.6	437.4	446.9	449.2
70°	359.5	353.7	362.4	368.6	369.0
72.5°	287.1	281.7	290.4	293.6	292.6
75°	216.9	213.9	223.4	222.8	222.5
77.5°	153.2	153.9	159.5	159.4	159.6
80°	98.7	102.2	105.2	107.4	106.9
82.5°	55.6	59.0	62.9	70.7	73.9
85°	25.6	28.9	35.7	43.0	46.0
87.5°	8.6	11.2	15.1	16.2	15.4
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	16.61	18.19	16.97	18.50	18.82	16.79	18.38	17.16	18.69	19.00
	3H	18.07	19.50	18.45	19.82	20.19	18.27	19.70	18.65	20.03	20.39
	4H	18.50	19.84	18.90	20.19	20.56	18.70	20.04	19.10	20.39	20.76
	6H	18.71	19.95	19.12	20.31	20.70	18.92	20.16	19.33	20.52	20.91
	8H	18.74	19.92	19.16	20.30	20.70	18.97	20.15	19.40	20.54	20.94
	12H	18.74	19.86	19.17	20.25	20.67	19.00	20.13	19.43	20.51	20.94
4H	2H	17.16	18.50	17.56	18.85	19.22	17.31	18.65	17.71	19.00	19.37
	3H	18.80	19.92	19.21	20.32	20.72	18.98	20.09	19.39	20.49	20.89
	4H	19.32	20.32	19.75	20.73	21.17	19.50	20.50	19.93	20.92	21.35
	6H	19.60	20.48	20.06	20.92	21.38	19.80	20.67	20.26	21.12	21.57
	8H	19.65	20.46	20.11	20.91	21.37	19.88	20.69	20.34	21.13	21.60
	12H	19.66	20.39	20.14	20.87	21.34	19.93	20.66	20.42	21.14	21.61
8H	4H	19.51	20.32	19.97	20.76	21.23	19.68	20.49	20.14	20.93	21.40
	6H	19.85	20.52	20.35	21.01	21.49	20.04	20.71	20.53	21.20	21.68
	8H	19.92	20.53	20.44	21.03	21.52	20.15	20.75	20.66	21.26	21.75
	12H	19.96	20.49	20.47	20.98	21.55	20.25	20.78	20.76	21.27	21.83
12H	4H	19.51	20.24	19.99	20.71	21.18	19.67	20.40	20.15	20.88	21.35
	6H	19.85	20.46	20.37	20.97	21.45	20.04	20.64	20.55	21.15	21.63
	8H	19.96	20.49	20.47	20.98	21.55	20.18	20.72	20.69	21.21	21.77