

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: P1498458

Luminaire Tested: MAE-G-2-120-2LO-LO-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498458
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-30-90
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

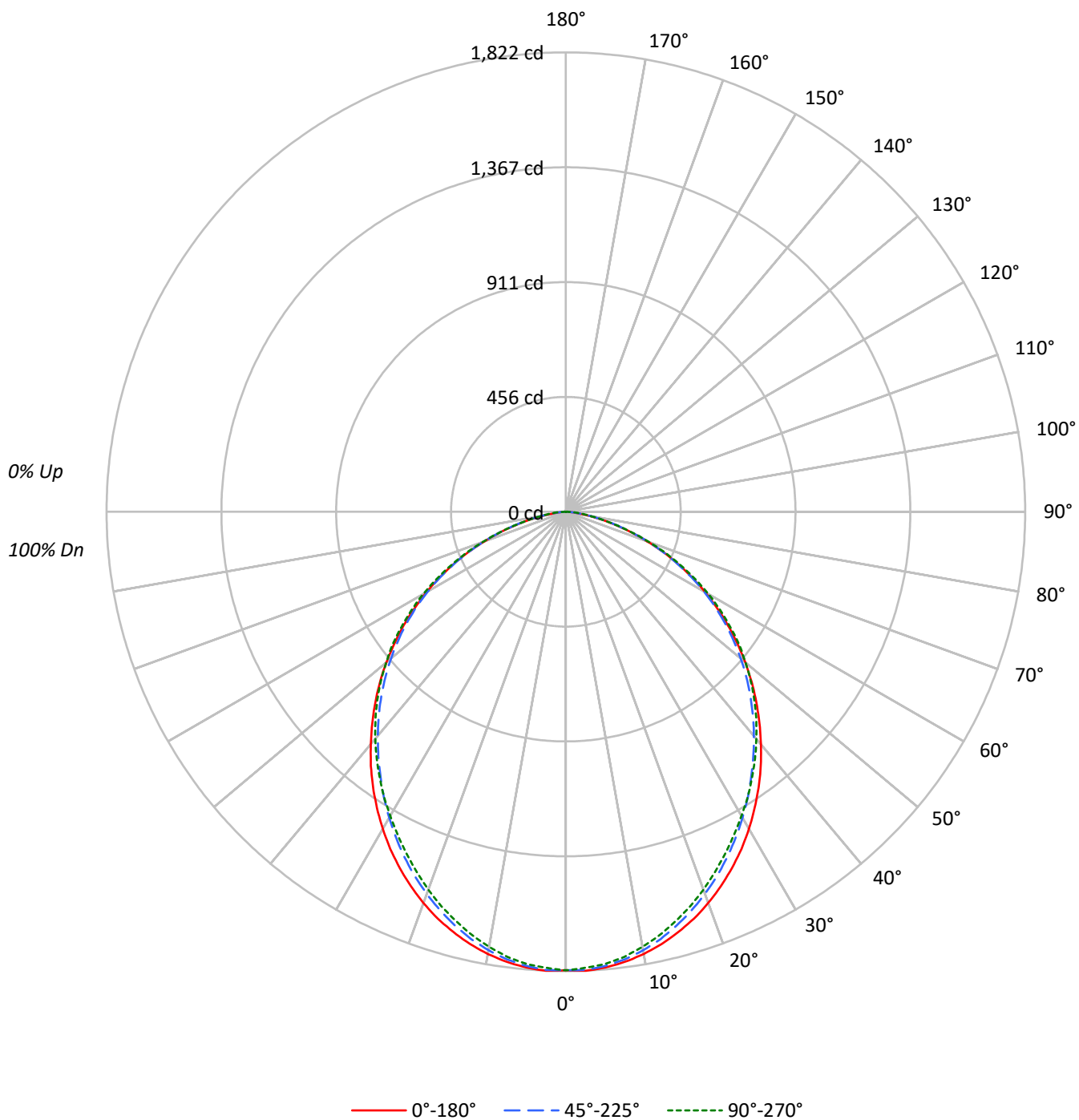
Lumens per Lamp: N/A
Luminaire Lumens: 4419.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	81	98	90	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4894	4894	4894
5°	4901	4885	4862
10°	4867	4826	4787
15°	4807	4733	4683
20°	4729	4619	4568
25°	4630	4492	4441
30°	4513	4354	4328
35°	4380	4212	4230
40°	4229	4077	4130
45°	4066	3939	4025
50°	3888	3791	3894
55°	3683	3615	3733
60°	3436	3397	3522
65°	3126	3109	3202
70°	2700	2722	2770
75°	2154	2218	2208
80°	1461	1557	1582
85°	753	1056	1355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4066 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.0	3.9
10°-20°	478.6	10.8
20°-30°	699.2	15.8
30°-40°	810.4	18.3
40°-50°	808.4	18.3
50°-60°	696.0	15.7
60°-70°	486.3	11.0
70°-80°	226.1	5.1
80°-90°	43.1	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°	1348.8	30.5
0°-40°	2159.2	48.9
0°-60°	3663.5	82.9
0°-90°	4419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1819	1819	1819	1819	1819	
5°	1814	1808	1808	1798	1800	172
15°	1726	1714	1699	1680	1681	486
25°	1559	1541	1513	1494	1496	718
35°	1333	1309	1282	1280	1288	833
45°	1068	1047	1035	1048	1058	824
55°	785	768	770	788	796	701
65°	491	482	488	497	503	486
75°	207	204	213	213	212	223
85°	24	28	34	41	44	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.7	1818.7	1818.7	1818.7	1818.7
2.5°	1822.3	1816.6	1818.7	1810.4	1810.0
5°	1814.4	1808.0	1808.3	1797.5	1800.0
7.5°	1800.5	1792.9	1790.4	1778.0	1780.3
10°	1781.1	1771.8	1766.0	1750.8	1751.9
12.5°	1756.3	1745.7	1735.8	1718.2	1720.0
15°	1725.5	1713.5	1698.9	1680.2	1681.1
17.5°	1691.6	1678.2	1658.0	1638.2	1640.9
20°	1651.5	1636.7	1612.9	1592.1	1595.1
22.5°	1607.0	1590.1	1565.2	1544.6	1545.9
25°	1559.4	1540.6	1512.9	1493.9	1495.7
27.5°	1507.8	1486.9	1458.3	1441.3	1444.5
30°	1452.3	1430.3	1401.3	1388.2	1392.8
32.5°	1393.8	1371.2	1343.0	1335.2	1342.2
35°	1333.4	1309.2	1282.1	1279.6	1287.5
37.5°	1270.4	1246.6	1221.8	1224.5	1232.6
40°	1203.8	1181.3	1160.5	1166.8	1175.7
42.5°	1136.7	1115.0	1098.5	1108.4	1118.0
45°	1068.3	1046.6	1035.1	1047.6	1057.7
47.5°	1000.2	978.5	971.4	985.9	995.1
50°	928.7	909.1	905.5	921.4	930.2
52.5°	856.3	838.1	838.6	855.9	867.0
55°	785.0	767.9	770.5	787.9	795.7
57.5°	711.5	697.8	702.1	717.7	725.5
60°	638.4	625.7	631.2	646.5	654.4
62.5°	564.6	553.4	560.3	573.5	579.0
65°	490.9	482.1	488.3	497.4	502.8
67.5°	418.2	410.1	417.4	426.6	428.7
70°	343.2	337.7	345.9	351.8	352.1
72.5°	274.1	268.9	277.3	280.3	279.3
75°	207.2	204.1	213.3	212.7	212.4
77.5°	146.2	146.9	152.3	152.2	152.3
80°	94.3	97.5	100.5	102.4	102.1
82.5°	53.1	56.3	60.0	67.6	70.5
85°	24.4	27.6	34.2	41.0	43.9
87.5°	8.2	10.7	14.3	15.5	14.7
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	16.44	18.03	16.81	18.34	18.66	16.63	18.22	17.00	18.53	18.84
	3H	17.91	19.34	18.29	19.66	20.02	18.11	19.54	18.49	19.86	20.23
	4H	18.34	19.68	18.74	20.02	20.40	18.54	19.88	18.94	20.23	20.60
	6H	18.55	19.78	18.96	20.15	20.54	18.76	20.00	19.17	20.36	20.75
	8H	18.58	19.75	19.00	20.14	20.54	18.81	19.99	19.24	20.38	20.78
	12H	18.57	19.70	19.00	20.08	20.51	18.84	19.97	19.27	20.35	20.78
4H	2H	17.00	18.34	17.40	18.68	19.06	17.15	18.49	17.55	18.84	19.21
	3H	18.64	19.76	19.05	20.15	20.55	18.82	19.93	19.23	20.33	20.73
	4H	19.16	20.16	19.59	20.57	21.01	19.34	20.34	19.77	20.76	21.19
	6H	19.44	20.31	19.90	20.76	21.21	19.64	20.51	20.10	20.95	21.41
	8H	19.49	20.30	19.95	20.74	21.21	19.72	20.53	20.18	20.97	21.44
	12H	19.50	20.23	19.98	20.71	21.18	19.77	20.50	20.25	20.98	21.45
8H	4H	19.35	20.16	19.81	20.60	21.07	19.51	20.33	19.98	20.77	21.24
	6H	19.69	20.36	20.19	20.85	21.33	19.88	20.55	20.37	21.04	21.51
	8H	19.76	20.36	20.27	20.87	21.36	19.99	20.59	20.50	21.10	21.58
	12H	19.80	20.33	20.31	20.82	21.39	20.09	20.62	20.59	21.11	21.67
12H	4H	19.35	20.08	19.83	20.55	21.02	19.51	20.24	19.99	20.72	21.19
	6H	19.69	20.30	20.20	20.80	21.29	19.87	20.48	20.39	20.99	21.47
	8H	19.80	20.33	20.31	20.82	21.39	20.02	20.55	20.53	21.05	21.61