

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: P1498206

Luminaire Tested: MAE-G-2-120-1LO-STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1LO-STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

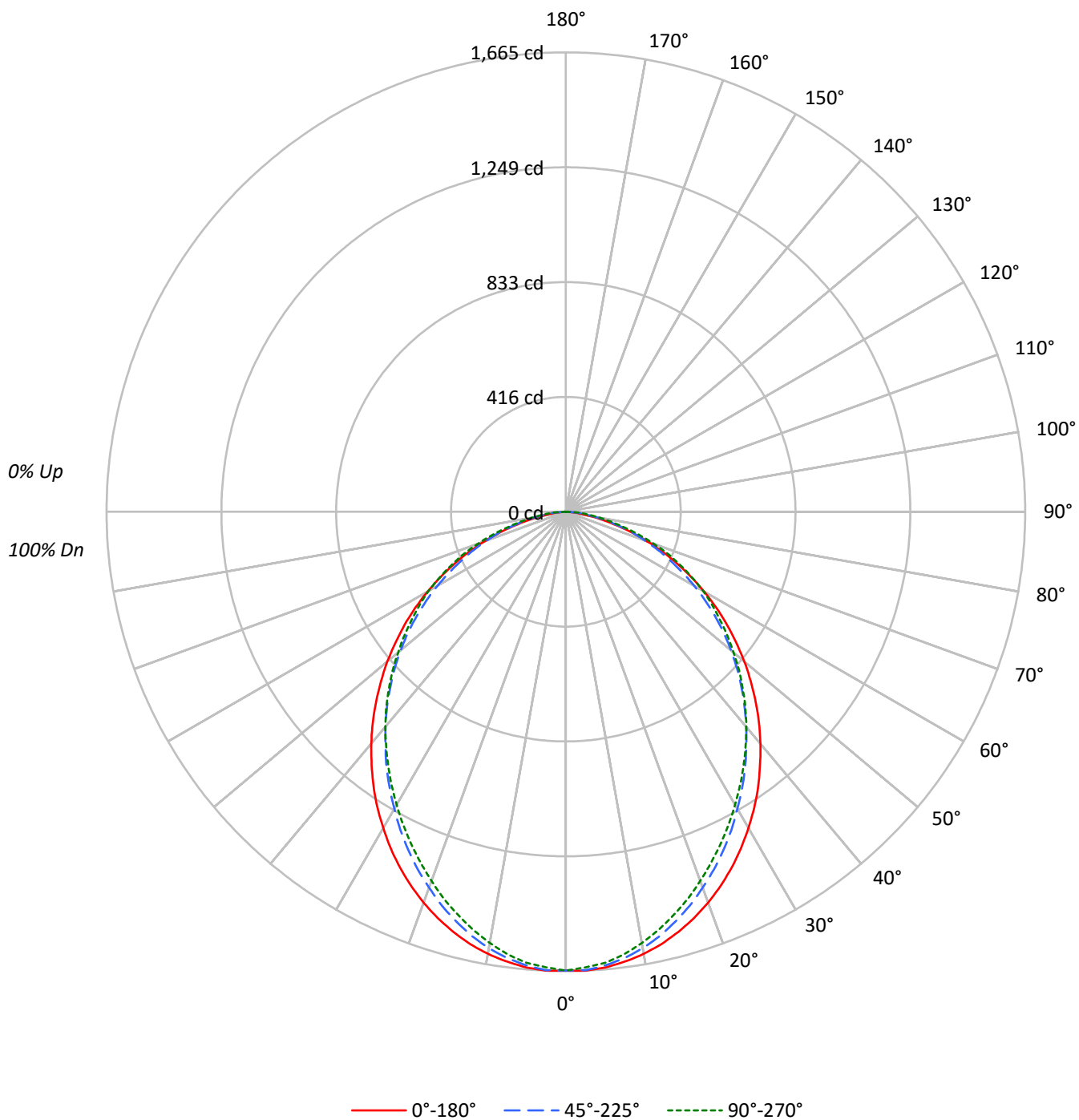
Lumens per Lamp: N/A
Luminaire Lumens: 3948.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4475	4475	4475
5°	4477	4458	4432
10°	4446	4389	4337
15°	4392	4282	4212
20°	4318	4152	4078
25°	4225	4015	3942
30°	4113	3863	3811
35°	3993	3720	3689
40°	3855	3573	3575
45°	3701	3427	3451
50°	3537	3273	3323
55°	3345	3098	3195
60°	3111	2897	3092
65°	2838	2648	2918
70°	2468	2406	2667
75°	1978	2096	2294
80°	1376	1686	1917
85°	775	1331	1772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3701 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.0	4.0
10°-20°	433.5	11.0
20°-30°	627.3	15.9
30°-40°	719.5	18.2
40°-50°	709.8	18.0
50°-60°	606.3	15.4
60°-70°	430.2	10.9
70°-80°	215.8	5.5
80°-90°	49.7	1.3
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°	1216.8	30.8
0°-40°	1936.2	49.0
0°-60°	3252.3	82.4
0°-90°	3948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1663	1663	1663	1663	1663	
5°	1657	1656	1650	1637	1641	157
15°	1576	1566	1537	1511	1512	444
25°	1423	1398	1352	1327	1328	655
35°	1216	1181	1132	1119	1123	759
45°	973	939	900	901	907	750
55°	713	682	660	670	681	637
65°	446	421	416	445	458	441
75°	190	180	202	218	221	205
85°	25	31	43	53	57	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.9	1662.9	1662.9	1662.9	1662.9
2.5°	1664.8	1666.4	1662.9	1649.7	1652.5
5°	1657.4	1656.2	1650.5	1637.0	1640.9
7.5°	1644.3	1641.7	1631.4	1615.2	1617.6
10°	1627.1	1621.9	1606.2	1585.6	1587.2
12.5°	1604.5	1597.1	1574.9	1550.8	1552.3
15°	1576.4	1565.9	1537.1	1510.8	1512.0
17.5°	1544.2	1531.5	1496.3	1467.6	1470.9
20°	1507.7	1491.0	1450.0	1422.0	1424.2
22.5°	1467.2	1446.5	1402.9	1375.1	1375.8
25°	1422.8	1397.8	1352.2	1326.6	1327.7
27.5°	1375.0	1347.3	1299.4	1275.1	1278.0
30°	1323.8	1293.8	1243.3	1223.5	1226.4
32.5°	1271.1	1238.8	1188.7	1172.3	1175.2
35°	1215.6	1180.7	1132.5	1118.9	1123.0
37.5°	1156.4	1122.3	1074.3	1066.9	1070.5
40°	1097.4	1062.3	1017.0	1012.6	1017.7
42.5°	1036.1	1001.8	959.4	957.4	963.5
45°	972.6	938.9	900.4	901.4	906.8
47.5°	908.5	875.5	841.7	844.5	851.9
50°	844.8	812.7	781.9	787.5	793.7
52.5°	777.6	747.1	721.9	728.6	738.2
55°	713.0	682.1	660.3	670.3	681.1
57.5°	646.0	619.3	599.8	614.3	628.8
60°	578.1	552.1	538.2	559.9	574.6
62.5°	511.3	486.1	476.2	504.4	516.6
65°	445.7	421.1	415.9	445.4	458.3
67.5°	380.1	358.0	360.9	391.5	400.8
70°	313.7	293.9	305.8	333.0	339.0
72.5°	251.0	234.6	253.7	275.1	278.2
75°	190.2	179.6	201.6	218.0	220.6
77.5°	136.4	130.8	152.6	165.7	168.7
80°	88.8	90.7	108.8	119.8	123.7
82.5°	52.0	57.1	71.6	84.9	89.0
85°	25.1	31.2	43.1	53.1	57.4
87.5°	8.6	12.7	18.1	20.2	19.6
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	16.03	17.62	16.40	17.93	18.25	15.96	17.55	16.33	17.86	18.18
	3H	17.50	18.93	17.88	19.25	19.61	17.68	19.11	18.06	19.43	19.80
	4H	17.94	19.28	18.34	19.63	20.00	18.25	19.59	18.65	19.94	20.31
	6H	18.17	19.41	18.58	19.77	20.16	18.61	19.85	19.03	20.22	20.61
	8H	18.20	19.39	18.63	19.78	20.18	18.73	19.91	19.16	20.30	20.70
	12H	18.21	19.34	18.64	19.72	20.15	18.82	19.95	19.25	20.33	20.76
4H	2H	16.53	17.87	16.93	18.21	18.59	16.47	17.81	16.87	18.16	18.53
	3H	18.18	19.30	18.59	19.70	20.10	18.40	19.51	18.81	19.91	20.31
	4H	18.71	19.71	19.14	20.13	20.57	19.08	20.09	19.52	20.51	20.94
	6H	19.02	19.90	19.48	20.34	20.80	19.57	20.44	20.02	20.88	21.34
	8H	19.08	19.90	19.54	20.34	20.81	19.72	20.54	20.19	20.99	21.45
	12H	19.11	19.84	19.59	20.32	20.79	19.85	20.58	20.33	21.06	21.53
8H	4H	18.94	19.76	19.41	20.21	20.67	19.28	20.10	19.74	20.54	21.01
	6H	19.33	20.01	19.82	20.50	20.97	19.86	20.54	20.35	21.03	21.50
	8H	19.42	20.03	19.93	20.54	21.03	20.08	20.69	20.59	21.19	21.68
	12H	19.48	20.02	19.99	20.51	21.07	20.27	20.81	20.78	21.30	21.86
12H	4H	18.96	19.70	19.44	20.17	20.64	19.28	20.02	19.77	20.50	20.97
	6H	19.36	19.97	19.87	20.47	20.96	19.87	20.48	20.38	20.99	21.47
	8H	19.50	20.03	20.01	20.52	21.09	20.14	20.67	20.64	21.16	21.73

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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