

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: P1498086

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498086
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-2-120-1HI-LO-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

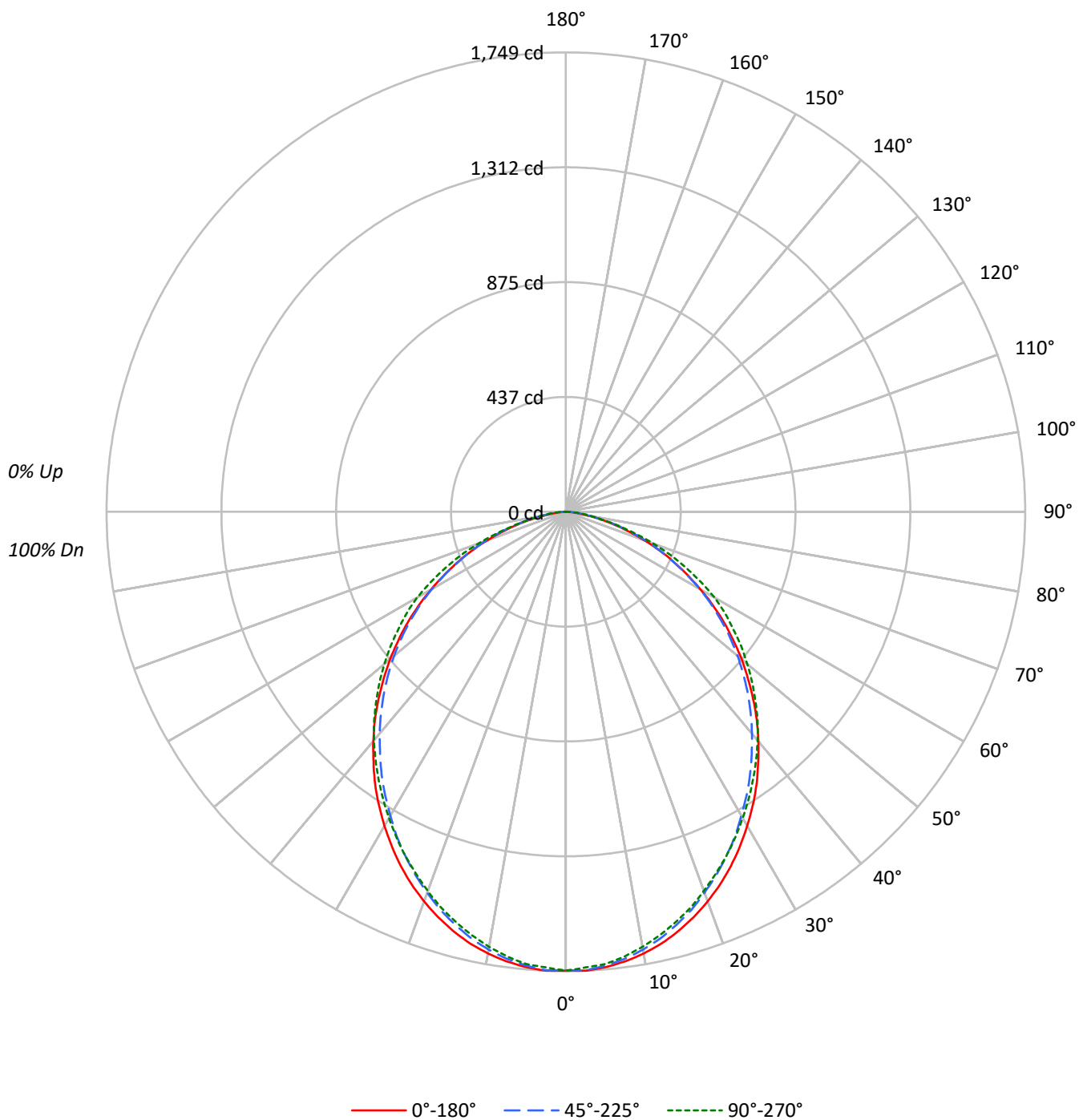
Lumens per Lamp: N/A
Luminaire Lumens: 4220.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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	80	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	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	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4701	4701	4701
5°	4702	4686	4669
10°	4667	4626	4595
15°	4606	4534	4504
20°	4521	4421	4401
25°	4417	4295	4293
30°	4291	4152	4185
35°	4159	4017	4085
40°	4007	3873	3992
45°	3838	3729	3886
50°	3658	3573	3774
55°	3450	3387	3648
60°	3192	3173	3522
65°	2897	2880	3221
70°	2507	2557	2787
75°	1991	2117	2159
80°	1365	1551	1590
85°	760	1127	1414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	3.9
10°-20°	459.3	10.9
20°-30°	670.1	15.9
30°-40°	774.3	18.3
40°-50°	769.2	18.2
50°-60°	660.4	15.7
60°-70°	462.6	11.0
70°-80°	216.2	5.1
80°-90°	43.7	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°	1293.5	30.7
0°-40°	2067.8	49.0
0°-60°	3497.4	82.9
0°-90°	4220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1747	1747	1747	1747	1747	
5°	1741	1739	1735	1725	1728	165
15°	1653	1646	1628	1613	1617	466
25°	1488	1471	1447	1438	1446	685
35°	1266	1244	1223	1230	1243	791
45°	1008	990	980	1004	1021	778
55°	735	719	722	756	778	656
65°	455	442	452	490	506	450
75°	192	186	204	211	208	207
85°	25	29	36	43	46	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.0	1747.0	1747.0	1747.0	1747.0
2.5°	1749.1	1750.3	1747.0	1734.9	1736.4
5°	1740.7	1739.1	1734.8	1724.8	1728.4
7.5°	1726.6	1724.6	1717.0	1705.5	1708.1
10°	1707.9	1704.0	1693.0	1679.1	1681.7
12.5°	1683.7	1679.0	1663.8	1648.8	1652.0
15°	1653.3	1646.2	1627.6	1613.1	1616.7
17.5°	1618.4	1611.0	1589.1	1573.5	1580.3
20°	1578.7	1568.4	1543.7	1530.0	1536.7
22.5°	1535.4	1522.1	1496.9	1484.7	1491.2
25°	1487.7	1471.2	1446.6	1438.4	1445.8
27.5°	1436.0	1418.2	1394.0	1387.7	1397.7
30°	1381.1	1362.2	1336.3	1335.9	1346.9
32.5°	1325.0	1305.4	1280.2	1284.6	1295.5
35°	1266.1	1244.4	1222.9	1230.2	1243.4
37.5°	1203.0	1182.7	1162.0	1177.5	1190.4
40°	1140.8	1119.6	1102.5	1121.8	1136.4
42.5°	1076.2	1056.3	1042.0	1063.8	1080.7
45°	1008.4	990.5	979.9	1004.5	1021.0
47.5°	940.8	922.7	917.1	943.9	962.4
50°	873.7	856.9	853.5	883.1	901.5
52.5°	803.8	787.6	789.1	819.6	841.1
55°	735.3	718.7	722.0	755.6	777.5
57.5°	664.8	652.9	656.5	692.7	718.9
60°	593.1	580.9	589.5	631.1	654.4
62.5°	523.6	511.4	519.9	564.9	579.7
65°	454.9	442.5	452.3	489.5	505.8
67.5°	387.7	375.6	390.2	423.2	433.1
70°	318.6	308.1	325.0	351.2	354.2
72.5°	254.3	244.9	264.4	279.6	278.3
75°	191.5	186.4	203.6	210.8	207.7
77.5°	136.7	134.1	148.1	150.6	147.8
80°	88.1	90.3	100.1	101.1	102.6
82.5°	51.1	55.0	62.2	70.7	72.4
85°	24.6	29.2	36.5	43.3	45.8
87.5°	8.6	11.7	15.0	16.6	16.2
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	16.14	17.72	16.50	18.04	18.35	16.59	18.17	16.95	18.48	18.80
	3H	17.57	18.99	17.95	19.32	19.68	18.15	19.57	18.53	19.90	20.26
	4H	17.99	19.32	18.38	19.67	20.05	18.58	19.92	18.98	20.27	20.64
	6H	18.19	19.43	18.61	19.80	20.19	18.80	20.04	19.21	20.40	20.79
	8H	18.23	19.40	18.65	19.79	20.19	18.86	20.04	19.28	20.43	20.83
	12H	18.23	19.36	18.66	19.74	20.17	18.90	20.02	19.33	20.41	20.83
4H	2H	16.68	18.02	17.08	18.37	18.74	17.05	18.38	17.45	18.73	19.11
	3H	18.29	19.40	18.70	19.80	20.20	18.81	19.92	19.22	20.32	20.72
	4H	18.79	19.79	19.22	20.21	20.64	19.34	20.34	19.78	20.76	21.20
	6H	19.08	19.95	19.53	20.39	20.85	19.65	20.52	20.11	20.96	21.42
	8H	19.13	19.94	19.59	20.38	20.85	19.73	20.55	20.20	20.99	21.46
	12H	19.15	19.87	19.63	20.35	20.82	19.80	20.53	20.28	21.01	21.48
8H	4H	19.00	19.82	19.46	20.26	20.73	19.50	20.32	19.97	20.76	21.23
	6H	19.35	20.02	19.85	20.51	20.99	19.88	20.55	20.37	21.04	21.52
	8H	19.43	20.03	19.94	20.54	21.03	20.00	20.61	20.52	21.11	21.60
	12H	19.48	20.01	19.98	20.50	21.06	20.12	20.65	20.63	21.14	21.70
12H	4H	19.01	19.74	19.49	20.21	20.68	19.50	20.23	19.98	20.71	21.18
	6H	19.36	19.96	19.87	20.47	20.96	19.88	20.48	20.39	20.99	21.47
	8H	19.48	20.01	19.99	20.50	21.06	20.04	20.57	20.55	21.07	21.63