

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: P1498383

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498383
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-LO-50
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

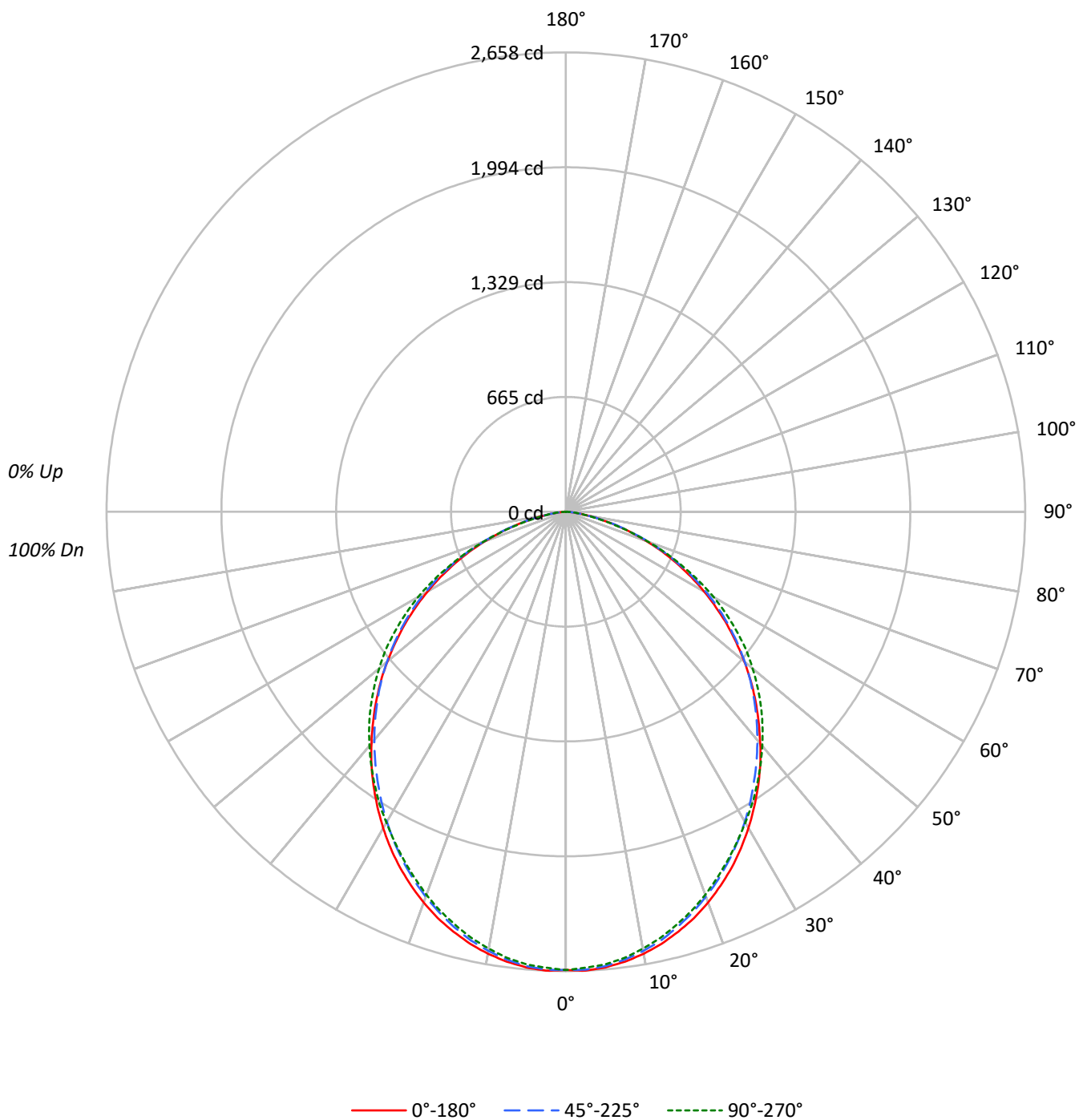
Lumens per Lamp: N/A
Luminaire Lumens: 6511.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	93	90	91	89	88	88	88	86
2	100	92	86	81	98	91	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	62
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	41	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°	7136	7136	7136
5°	7147	7126	7100
10°	7095	7051	7013
15°	7006	6934	6893
20°	6890	6787	6753
25°	6743	6620	6594
30°	6568	6436	6453
35°	6371	6240	6334
40°	6147	6057	6211
45°	5906	5868	6080
50°	5643	5660	5905
55°	5342	5408	5666
60°	4979	5088	5321
65°	4519	4647	4753
70°	3892	4010	3990
75°	3090	3166	3001
80°	2073	2072	1932
85°	1044	1281	1568

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	3.8
10°-20°	701.2	10.8
20°-30°	1029.2	15.8
30°-40°	1198.2	18.4
40°-50°	1200.5	18.4
50°-60°	1036.7	15.9
60°-70°	719.2	11.0
70°-80°	321.3	4.9
80°-90°	55.1	0.8
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°	1980.0	30.4
0°-40°	3178.2	48.8
0°-60°	5415.4	83.2
0°-90°	6511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2652	2652	2652	2652	2652	
5°	2646	2635	2638	2626	2628	251
15°	2515	2499	2489	2472	2474	709
25°	2271	2251	2230	2215	2221	1045
35°	1940	1916	1900	1911	1928	1212
45°	1552	1534	1542	1576	1598	1197
55°	1139	1127	1153	1192	1208	1017
65°	710	709	730	740	746	702
75°	297	299	304	293	289	320
85°	34	36	42	48	51	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2651.7	2651.7	2651.7	2651.7	2651.7
2.5°	2657.6	2646.9	2651.7	2642.4	2640.2
5°	2645.7	2634.7	2638.1	2625.6	2628.5
7.5°	2625.3	2613.4	2613.9	2600.5	2603.7
10°	2596.7	2582.9	2580.6	2564.7	2566.6
12.5°	2560.4	2545.6	2539.8	2521.9	2525.6
15°	2514.9	2499.1	2489.0	2471.6	2474.2
17.5°	2465.2	2449.0	2432.9	2415.0	2420.7
20°	2406.0	2389.2	2370.2	2351.4	2358.2
22.5°	2340.6	2322.2	2303.2	2285.2	2290.3
25°	2271.0	2251.3	2229.6	2214.7	2220.7
27.5°	2195.1	2173.4	2152.6	2140.5	2149.1
30°	2113.7	2091.5	2071.2	2065.5	2076.8
32.5°	2027.9	2006.0	1987.2	1990.4	2005.9
35°	1939.5	1916.2	1899.6	1911.0	1928.2
37.5°	1847.6	1825.1	1812.8	1832.3	1850.2
40°	1749.8	1729.9	1724.3	1749.2	1768.0
42.5°	1651.8	1633.4	1634.2	1664.7	1685.1
45°	1551.9	1533.9	1541.9	1575.8	1597.6
47.5°	1453.1	1434.4	1448.6	1485.7	1505.2
50°	1348.0	1333.0	1351.9	1390.6	1410.4
52.5°	1243.3	1229.6	1253.2	1293.7	1316.2
55°	1138.6	1127.1	1152.6	1191.9	1207.7
57.5°	1031.6	1024.5	1050.9	1084.9	1099.8
60°	925.2	919.1	945.4	975.3	988.6
62.5°	817.5	813.4	838.8	861.2	867.8
65°	709.7	709.2	729.8	739.8	746.5
67.5°	604.4	603.0	621.2	627.9	628.8
70°	494.7	496.8	509.7	510.1	507.1
72.5°	394.6	394.9	403.1	397.7	392.6
75°	297.2	298.8	304.5	293.0	288.6
77.5°	208.9	213.5	211.4	201.1	197.1
80°	133.8	139.0	133.7	127.9	124.7
82.5°	74.5	77.6	75.3	81.3	83.7
85°	33.8	36.4	41.5	48.2	50.8
87.5°	11.5	13.8	17.3	18.2	17.1
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	17.75	19.33	18.12	19.65	19.96	18.16	19.74	18.52	20.06	20.37
	3H	19.21	20.63	19.58	20.96	21.32	19.55	20.98	19.93	21.30	21.66
	4H	19.62	20.96	20.02	21.31	21.68	19.91	21.25	20.31	21.60	21.98
	6H	19.82	21.06	20.23	21.42	21.81	20.07	21.30	20.48	21.67	22.06
	8H	19.85	21.02	20.27	21.41	21.81	20.09	21.27	20.51	21.66	22.06
	12H	19.84	20.97	20.27	21.35	21.78	20.10	21.23	20.53	21.61	22.04
4H	2H	18.33	19.67	18.73	20.02	20.40	18.66	20.00	19.06	20.35	20.73
	3H	19.96	21.07	20.37	21.47	21.87	20.24	21.35	20.65	21.75	22.15
	4H	20.46	21.46	20.89	21.88	22.31	20.68	21.68	21.11	22.09	22.53
	6H	20.74	21.61	21.19	22.05	22.51	20.90	21.77	21.36	22.21	22.67
	8H	20.78	21.59	21.24	22.03	22.50	20.94	21.75	21.40	22.19	22.66
	12H	20.78	21.51	21.27	21.99	22.46	20.97	21.69	21.45	22.17	22.64
8H	4H	20.64	21.45	21.10	21.89	22.36	20.84	21.65	21.30	22.09	22.56
	6H	20.96	21.63	21.46	22.12	22.60	21.10	21.77	21.60	22.26	22.74
	8H	21.03	21.62	21.54	22.13	22.62	21.17	21.76	21.68	22.27	22.76
	12H	21.06	21.58	21.56	22.07	22.64	21.22	21.75	21.73	22.24	22.81
12H	4H	20.63	21.36	21.11	21.83	22.31	20.83	21.56	21.31	22.04	22.51
	6H	20.95	21.55	21.47	22.06	22.55	21.09	21.69	21.61	22.20	22.69
	8H	21.05	21.58	21.56	22.07	22.63	21.19	21.72	21.70	22.21	22.77