

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: P1498396

Luminaire Tested: MAE-G-2-120-2HI-STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498396
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-STD-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

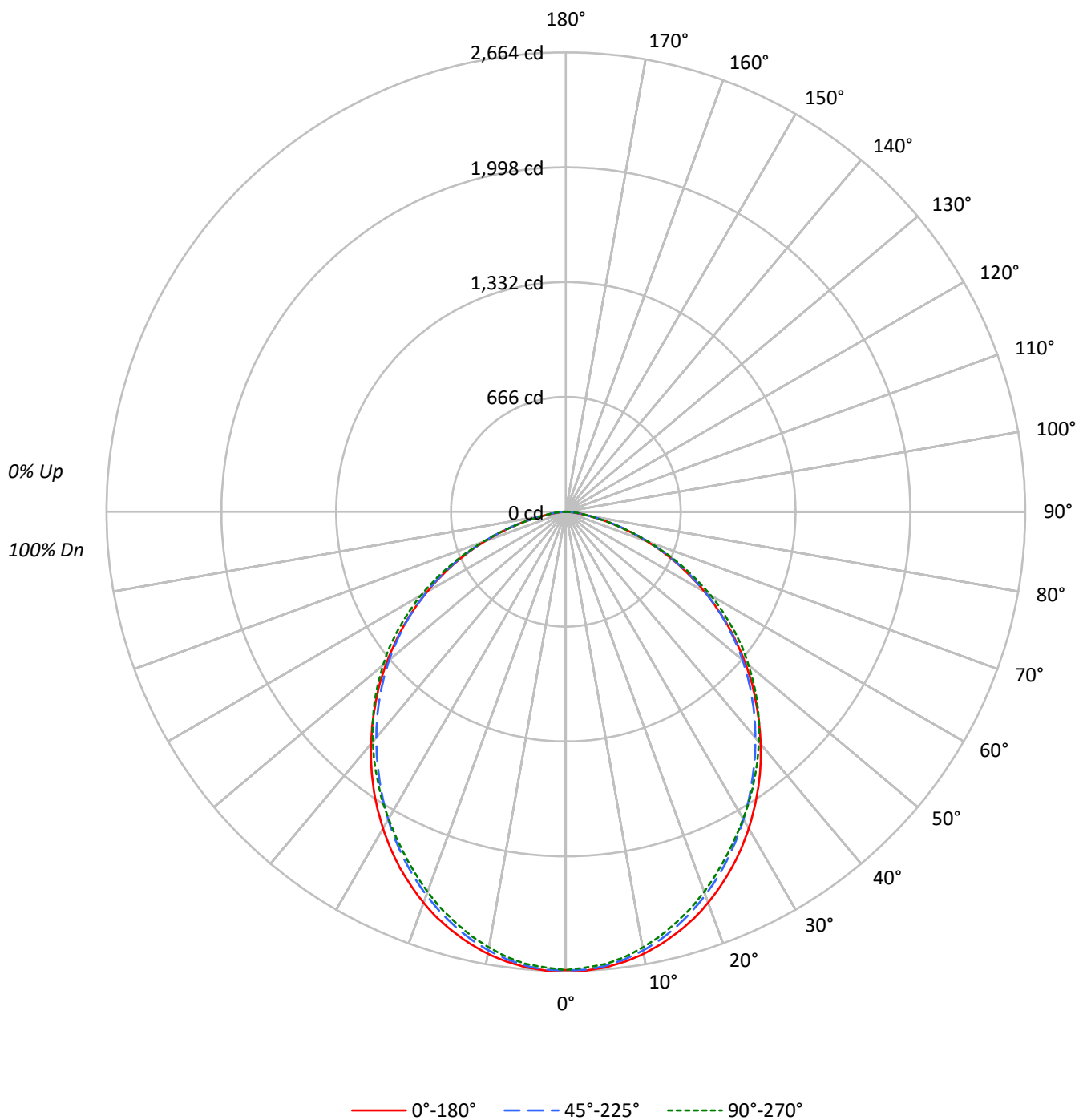
Lumens per Lamp: N/A
Luminaire Lumens: 6488.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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	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	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°	7153	7153	7153
5°	7164	7141	7111
10°	7113	7060	7011
15°	7025	6932	6873
20°	6910	6773	6716
25°	6764	6596	6542
30°	6591	6402	6387
35°	6396	6199	6253
40°	6173	6007	6118
45°	5933	5811	5974
50°	5672	5597	5789
55°	5371	5342	5552
60°	5009	5024	5227
65°	4552	4593	4716
70°	3927	3996	4028
75°	3126	3212	3134
80°	2111	2191	2151
85°	1078	1433	1806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5974 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	3.9
10°-20°	701.0	10.8
20°-30°	1026.2	15.8
30°-40°	1191.6	18.4
40°-50°	1190.9	18.4
50°-60°	1026.7	15.8
60°-70°	715.1	11.0
70°-80°	326.9	5.0
80°-90°	59.7	0.9
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°	1977.2	30.5
0°-40°	3168.8	48.8
0°-60°	5386.3	83.0
0°-90°	6488.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6488.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2658	2658	2658	2658	2658	
5°	2652	2642	2644	2629	2633	252
15°	2522	2505	2488	2465	2467	711
25°	2278	2254	2221	2199	2203	1049
35°	1947	1917	1887	1890	1904	1217
45°	1559	1533	1527	1552	1570	1203
55°	1145	1126	1139	1170	1183	1022
65°	715	707	721	733	741	707
75°	301	299	309	304	301	324
85°	35	39	46	55	58	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2658.2	2658.2	2658.2	2658.2	2658.2
2.5°	2663.7	2654.4	2658.2	2647.3	2646.1
5°	2652.0	2642.0	2643.7	2629.3	2632.6
7.5°	2631.6	2620.2	2618.3	2602.3	2605.5
10°	2603.2	2589.5	2583.6	2564.1	2565.9
12.5°	2566.8	2551.6	2540.8	2518.5	2521.6
15°	2521.7	2504.7	2488.2	2465.1	2467.0
17.5°	2471.9	2453.8	2430.0	2405.7	2410.5
20°	2412.9	2393.4	2365.3	2340.0	2345.3
22.5°	2347.7	2325.7	2296.7	2271.8	2275.2
25°	2278.0	2253.9	2221.4	2199.2	2203.3
27.5°	2202.4	2175.6	2142.8	2123.4	2129.7
30°	2121.1	2093.1	2060.2	2046.9	2055.5
32.5°	2035.4	2007.1	1975.4	1970.3	1982.9
35°	1946.9	1916.7	1886.9	1889.7	1903.6
37.5°	1854.7	1825.2	1799.2	1809.9	1824.4
40°	1757.2	1729.8	1710.1	1726.0	1741.5
42.5°	1659.0	1633.0	1619.6	1640.9	1657.6
45°	1559.0	1533.2	1527.0	1551.8	1569.7
47.5°	1459.6	1433.4	1433.6	1461.7	1477.7
50°	1354.8	1332.0	1337.0	1367.0	1382.8
52.5°	1249.2	1228.2	1238.8	1270.6	1289.6
55°	1144.8	1125.5	1138.7	1170.0	1183.4
57.5°	1037.5	1022.9	1037.9	1065.4	1078.5
60°	930.7	917.5	933.4	958.9	971.3
62.5°	822.8	811.6	828.4	848.9	856.4
65°	714.9	707.3	721.4	733.2	740.7
67.5°	609.0	601.5	615.5	626.0	628.3
70°	499.1	495.5	507.9	513.0	512.0
72.5°	398.5	394.3	404.8	405.0	401.9
75°	300.7	298.9	308.9	303.5	301.4
77.5°	211.9	214.4	218.1	213.4	211.8
80°	136.2	141.2	141.4	140.5	138.8
82.5°	76.4	80.4	82.5	91.3	94.9
85°	34.9	38.7	46.4	55.0	58.5
87.5°	11.9	14.9	19.4	20.8	19.7
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	17.76	19.35	18.13	19.66	19.97	18.04	19.63	18.41	19.94	20.26
	3H	19.22	20.65	19.60	20.97	21.34	19.49	20.91	19.86	21.24	21.60
	4H	19.65	20.98	20.04	21.33	21.71	19.89	21.22	20.28	21.57	21.95
	6H	19.85	21.09	20.26	21.45	21.84	20.07	21.31	20.49	21.68	22.07
	8H	19.88	21.06	20.30	21.44	21.84	20.11	21.29	20.54	21.68	22.08
	12H	19.87	21.00	20.30	21.38	21.81	20.13	21.26	20.56	21.64	22.07
4H	2H	18.33	19.67	18.73	20.01	20.39	18.56	19.89	18.96	20.24	20.62
	3H	19.97	21.08	20.38	21.48	21.88	20.18	21.30	20.59	21.69	22.09
	4H	20.47	21.47	20.90	21.89	22.33	20.67	21.67	21.10	22.09	22.52
	6H	20.75	21.62	21.21	22.07	22.52	20.94	21.81	21.39	22.25	22.71
	8H	20.80	21.61	21.26	22.05	22.52	20.99	21.81	21.46	22.25	22.72
	12H	20.81	21.53	21.29	22.01	22.48	21.04	21.76	21.52	22.24	22.71
8H	4H	20.66	21.47	21.12	21.91	22.38	20.84	21.65	21.30	22.09	22.56
	6H	20.99	21.66	21.49	22.15	22.63	21.16	21.83	21.65	22.32	22.79
	8H	21.06	21.66	21.57	22.17	22.66	21.25	21.85	21.76	22.36	22.84
	12H	21.09	21.62	21.60	22.12	22.68	21.33	21.86	21.84	22.35	22.91
12H	4H	20.65	21.38	21.14	21.86	22.33	20.83	21.56	21.32	22.04	22.51
	6H	20.99	21.59	21.50	22.10	22.59	21.15	21.75	21.66	22.26	22.75
	8H	21.09	21.62	21.60	22.11	22.68	21.28	21.81	21.79	22.30	22.86