

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: P1498378

Luminaire Tested: MAE-G-2-120-2HI-LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498378
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-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

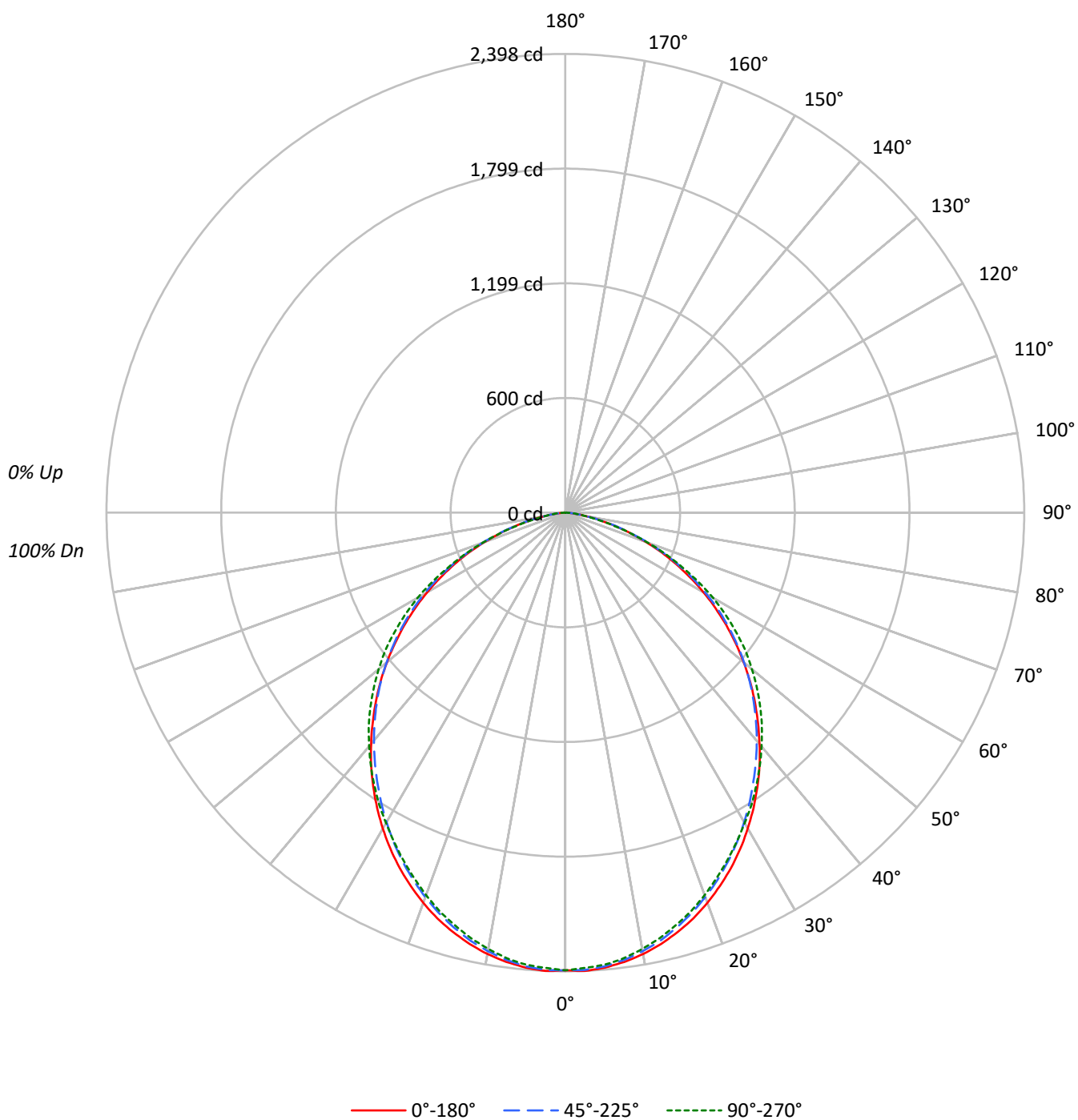
Lumens per Lamp: N/A
Luminaire Lumens: 5875.0 lumens
Efficiency: N/A
Efficacy: 84.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6439	6439	6439
5°	6448	6430	6407
10°	6402	6363	6328
15°	6322	6257	6220
20°	6217	6125	6094
25°	6084	5973	5950
30°	5926	5807	5823
35°	5749	5631	5716
40°	5546	5466	5604
45°	5329	5295	5486
50°	5092	5107	5328
55°	4820	4879	5113
60°	4493	4591	4801
65°	4078	4194	4289
70°	3511	3618	3600
75°	2789	2856	2706
80°	1872	1869	1743
85°	942	1155	1417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5486 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	3.8
10°-20°	632.7	10.8
20°-30°	928.7	15.8
30°-40°	1081.2	18.4
40°-50°	1083.2	18.4
50°-60°	935.5	15.9
60°-70°	649.0	11.0
70°-80°	289.9	4.9
80°-90°	49.7	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°	1786.6	30.4
0°-40°	2867.8	48.8
0°-60°	4886.5	83.2
0°-90°	5875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2393	2393	2393	2393	2393	
5°	2387	2377	2380	2369	2372	226
15°	2269	2255	2246	2230	2232	640
25°	2049	2031	2012	1998	2004	943
35°	1750	1729	1714	1724	1740	1094
45°	1400	1384	1391	1422	1442	1080
55°	1027	1017	1040	1076	1090	918
65°	640	640	659	668	674	634
75°	268	270	275	264	260	289
85°	30	33	37	44	46	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2392.7	2392.7	2392.7	2392.7	2392.7
2.5°	2398.0	2388.3	2392.7	2384.3	2382.3
5°	2387.2	2377.4	2380.4	2369.2	2371.7
7.5°	2368.8	2358.1	2358.6	2346.5	2349.3
10°	2343.0	2330.6	2328.5	2314.1	2315.8
12.5°	2310.2	2296.9	2291.6	2275.6	2278.9
15°	2269.3	2255.0	2245.9	2230.2	2232.5
17.5°	2224.3	2209.9	2195.3	2179.0	2184.2
20°	2170.9	2155.8	2138.7	2121.7	2127.9
22.5°	2111.9	2095.3	2078.2	2062.0	2066.6
25°	2049.2	2031.4	2011.8	1998.3	2003.8
27.5°	1980.7	1961.1	1942.3	1931.5	1939.2
30°	1907.2	1887.3	1868.9	1863.8	1874.0
32.5°	1829.9	1810.0	1793.1	1796.1	1810.1
35°	1750.0	1729.1	1714.0	1724.4	1739.9
37.5°	1667.1	1646.8	1635.8	1653.3	1669.5
40°	1578.9	1560.9	1555.9	1578.4	1595.3
42.5°	1490.5	1473.8	1474.6	1502.1	1520.5
45°	1400.2	1384.1	1391.3	1421.9	1441.5
47.5°	1311.1	1294.2	1307.1	1340.6	1358.2
50°	1216.4	1202.8	1219.8	1254.7	1272.6
52.5°	1121.9	1109.5	1130.8	1167.4	1187.8
55°	1027.4	1016.9	1040.0	1075.5	1089.8
57.5°	930.8	924.4	948.3	978.9	992.4
60°	834.8	829.4	853.1	880.0	892.0
62.5°	737.7	733.9	756.9	777.1	783.1
65°	640.4	639.8	658.6	667.5	673.6
67.5°	545.4	544.0	560.5	566.5	567.3
70°	446.3	448.3	459.9	460.3	457.6
72.5°	356.1	356.3	363.7	358.8	354.2
75°	268.2	269.6	274.7	264.3	260.3
77.5°	188.5	192.6	190.8	181.4	177.8
80°	120.8	125.4	120.6	115.5	112.5
82.5°	67.2	70.0	68.0	73.4	75.6
85°	30.5	32.9	37.4	43.5	45.9
87.5°	10.3	12.5	15.6	16.5	15.5
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	17.39	18.98	17.76	19.29	19.61	17.80	19.39	18.17	19.70	20.01
	3H	18.85	20.27	19.23	20.60	20.96	19.20	20.62	19.57	20.95	21.31
	4H	19.27	20.60	19.66	20.95	21.33	19.56	20.89	19.96	21.24	21.62
	6H	19.47	20.70	19.88	21.07	21.46	19.71	20.94	20.12	21.31	21.70
	8H	19.49	20.67	19.91	21.06	21.46	19.73	20.91	20.16	21.30	21.70
	12H	19.49	20.61	19.92	20.99	21.42	19.74	20.87	20.17	21.25	21.68
4H	2H	17.98	19.31	18.38	19.66	20.04	18.31	19.64	18.71	19.99	20.37
	3H	19.60	20.71	20.01	21.11	21.51	19.88	20.99	20.29	21.39	21.79
	4H	20.11	21.10	20.54	21.52	21.96	20.32	21.32	20.76	21.74	22.17
	6H	20.38	21.25	20.84	21.69	22.15	20.54	21.41	21.00	21.85	22.31
	8H	20.42	21.23	20.88	21.67	22.14	20.58	21.39	21.04	21.84	22.30
	12H	20.43	21.15	20.91	21.63	22.10	20.61	21.33	21.09	21.81	22.28
8H	4H	20.28	21.09	20.74	21.53	22.00	20.48	21.29	20.94	21.73	22.20
	6H	20.61	21.27	21.10	21.76	22.24	20.74	21.41	21.24	21.90	22.38
	8H	20.67	21.27	21.18	21.78	22.26	20.81	21.41	21.32	21.92	22.40
	12H	20.70	21.23	21.21	21.72	22.28	20.87	21.39	21.38	21.89	22.45
12H	4H	20.28	21.00	20.76	21.48	21.95	20.48	21.20	20.96	21.68	22.15
	6H	20.60	21.20	21.11	21.71	22.19	20.74	21.34	21.25	21.84	22.33
	8H	20.69	21.22	21.20	21.71	22.27	20.83	21.36	21.34	21.85	22.42