

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: P1498405

Luminaire Tested: MAE-G-2-120-2HI-STD-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498405
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-50-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

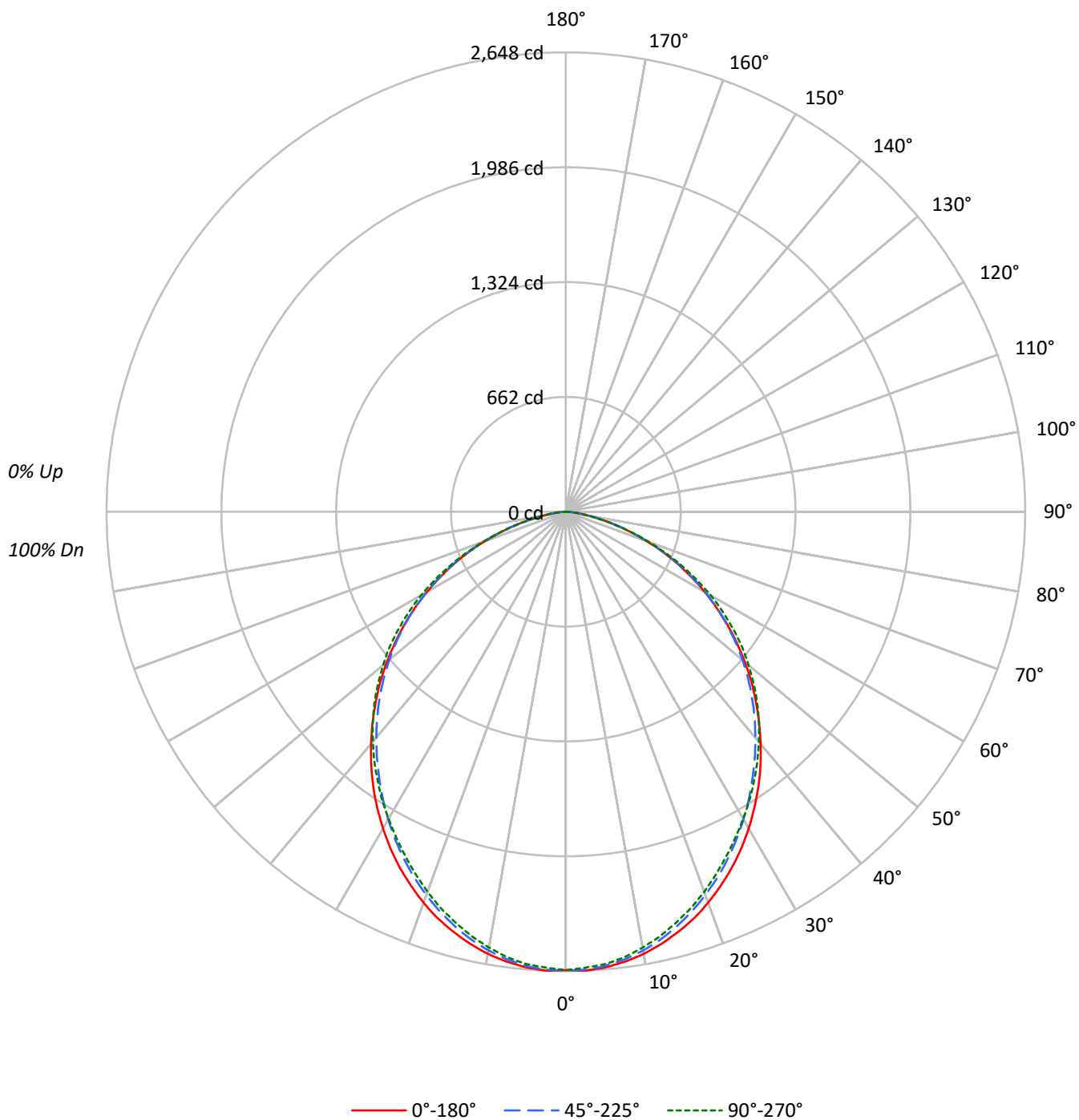
Lumens per Lamp: N/A
Luminaire Lumens: 6449.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	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	61		
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	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7110	7110	7110
5°	7121	7098	7069
10°	7070	7017	6969
15°	6983	6890	6832
20°	6869	6733	6676
25°	6723	6556	6503
30°	6551	6363	6349
35°	6357	6161	6216
40°	6135	5971	6081
45°	5897	5776	5938
50°	5637	5564	5755
55°	5339	5310	5519
60°	4979	4993	5196
65°	4525	4566	4688
70°	3903	3972	4005
75°	3108	3192	3114
80°	2100	2177	2139
85°	1071	1423	1797

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5938 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.6	3.9
10°-20°	696.8	10.8
20°-30°	1020.0	15.8
30°-40°	1184.4	18.4
40°-50°	1183.7	18.4
50°-60°	1020.5	15.8
60°-70°	710.8	11.0
70°-80°	324.9	5.0
80°-90°	59.3	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°	1965.3	30.5
0°-40°	3149.8	48.8
0°-60°	5354.0	83.0
0°-90°	6449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2642	2642	2642	2642	2642	
5°	2636	2626	2628	2614	2617	250
15°	2506	2490	2473	2450	2452	707
25°	2264	2240	2208	2186	2190	1042
35°	1935	1905	1876	1878	1892	1209
45°	1550	1524	1518	1543	1560	1195
55°	1138	1119	1132	1163	1176	1016
65°	711	703	717	729	736	703
75°	299	297	307	302	300	322
85°	35	38	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°	2642.2	2642.2	2642.2	2642.2	2642.2
2.5°	2647.7	2638.4	2642.2	2631.4	2630.1
5°	2636.0	2626.1	2627.8	2613.5	2616.8
7.5°	2615.7	2604.5	2602.6	2586.7	2589.8
10°	2587.5	2573.9	2568.1	2548.7	2550.4
12.5°	2551.4	2536.3	2525.5	2503.4	2506.5
15°	2506.5	2489.7	2473.2	2450.3	2452.2
17.5°	2457.0	2439.1	2415.4	2391.2	2396.0
20°	2398.5	2379.0	2351.1	2325.9	2331.3
22.5°	2333.5	2311.7	2282.9	2258.1	2261.4
25°	2264.4	2240.5	2208.0	2186.0	2190.1
27.5°	2189.1	2162.5	2129.9	2110.7	2116.9
30°	2108.3	2080.6	2047.8	2034.5	2043.2
32.5°	2023.2	1995.0	1963.5	1958.5	1971.0
35°	1935.2	1905.2	1875.5	1878.4	1892.2
37.5°	1843.6	1814.2	1788.5	1799.0	1813.4
40°	1746.6	1719.4	1699.8	1715.6	1731.0
42.5°	1649.1	1623.2	1609.8	1631.1	1647.7
45°	1549.6	1523.9	1517.8	1542.6	1560.3
47.5°	1450.8	1424.8	1425.0	1453.0	1468.9
50°	1346.6	1323.9	1329.0	1358.7	1374.6
52.5°	1241.8	1220.9	1231.3	1263.0	1281.9
55°	1137.9	1118.7	1131.9	1163.0	1176.3
57.5°	1031.2	1016.7	1031.6	1059.1	1072.0
60°	925.1	912.0	927.8	953.2	965.4
62.5°	817.9	806.7	823.4	843.9	851.2
65°	710.6	703.0	717.1	728.8	736.2
67.5°	605.3	597.9	611.9	622.2	624.5
70°	496.1	492.5	504.8	509.9	509.0
72.5°	396.1	391.9	402.4	402.5	399.5
75°	298.9	297.1	307.0	301.6	299.5
77.5°	210.6	213.1	216.8	212.2	210.5
80°	135.5	140.3	140.5	139.7	138.0
82.5°	75.9	79.9	82.0	90.8	94.3
85°	34.7	38.5	46.1	54.7	58.2
87.5°	11.7	14.8	19.3	20.7	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	17.74	19.32	18.11	19.64	19.95	18.02	19.61	18.39	19.92	20.24
	3H	19.20	20.63	19.58	20.95	21.31	19.47	20.89	19.84	21.22	21.58
	4H	19.62	20.96	20.02	21.31	21.69	19.86	21.20	20.26	21.55	21.93
	6H	19.83	21.07	20.24	21.43	21.82	20.05	21.29	20.46	21.65	22.05
	8H	19.86	21.03	20.28	21.42	21.82	20.09	21.27	20.52	21.66	22.06
	12H	19.85	20.98	20.28	21.36	21.79	20.11	21.24	20.54	21.62	22.05
4H	2H	18.31	19.64	18.71	19.99	20.37	18.54	19.87	18.94	20.22	20.60
	3H	19.94	21.06	20.35	21.45	21.85	20.16	21.28	20.57	21.67	22.07
	4H	20.45	21.45	20.88	21.87	22.30	20.65	21.65	21.08	22.06	22.50
	6H	20.73	21.60	21.19	22.05	22.50	20.91	21.78	21.37	22.23	22.68
	8H	20.78	21.59	21.24	22.03	22.50	20.97	21.79	21.44	22.23	22.70
	12H	20.79	21.51	21.27	21.99	22.46	21.02	21.74	21.50	22.22	22.69
8H	4H	20.64	21.45	21.10	21.89	22.36	20.82	21.63	21.28	22.07	22.54
	6H	20.97	21.64	21.47	22.13	22.61	21.14	21.81	21.63	22.30	22.77
	8H	21.04	21.64	21.55	22.15	22.64	21.23	21.83	21.74	22.33	22.82
	12H	21.07	21.60	21.58	22.09	22.66	21.31	21.84	21.81	22.33	22.89
12H	4H	20.63	21.36	21.11	21.84	22.31	20.81	21.54	21.29	22.02	22.49
	6H	20.97	21.57	21.48	22.08	22.57	21.13	21.73	21.64	22.24	22.73
	8H	21.07	21.60	21.58	22.09	22.66	21.26	21.79	21.76	22.28	22.84

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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