

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: P1498804

Luminaire Tested: MAE-G-2-120-3STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3STD-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

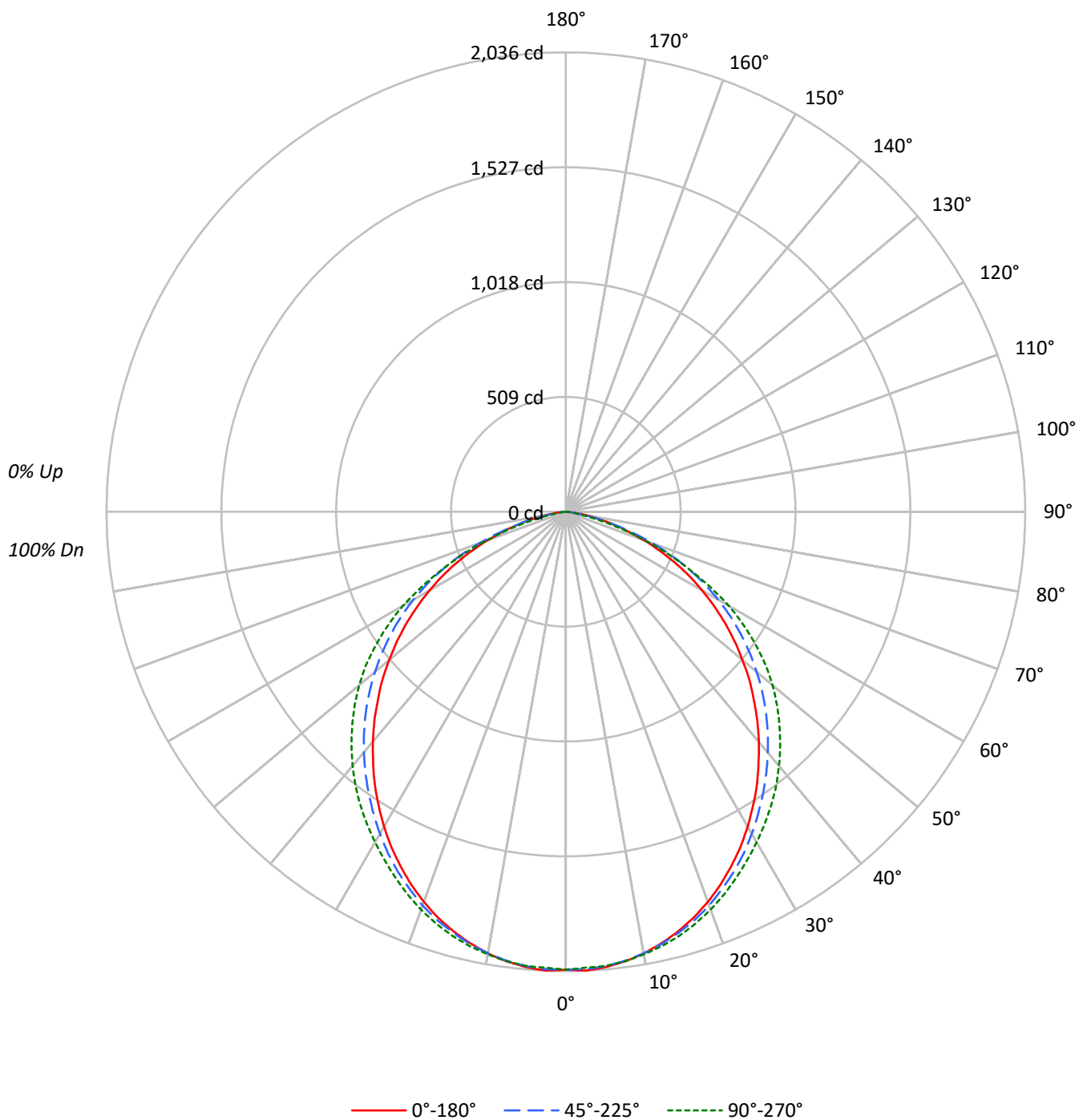
Lumens per Lamp: N/A
Luminaire Lumens: 5143.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	50	76	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	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5461	5461	5461
5°	5472	5461	5458
10°	5432	5429	5442
15°	5363	5380	5419
20°	5269	5318	5373
25°	5147	5229	5312
30°	5008	5121	5255
35°	4850	5004	5215
40°	4674	4892	5163
45°	4483	4771	5098
50°	4276	4623	5007
55°	4046	4444	4814
60°	3755	4199	4492
65°	3391	3830	3848
70°	2894	3216	2991
75°	2273	2346	1839
80°	1483	1207	711
85°	710	479	377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5098 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.7	3.7
10°-20°	544.2	10.6
20°-30°	809.3	15.7
30°-40°	953.7	18.5
40°-50°	967.0	18.8
50°-60°	842.6	16.4
60°-70°	576.3	11.2
70°-80°	231.5	4.5
80°-90°	26.8	0.5
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°	1545.2	30.0
0°-40°	2498.9	48.6
0°-60°	4308.4	83.8
0°-90°	5143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2029	2029	2029	2029	2029	
5°	2026	2014	2022	2019	2021	192
15°	1925	1917	1931	1939	1945	542
25°	1734	1734	1761	1774	1789	798
35°	1476	1483	1523	1561	1588	922
45°	1178	1194	1254	1310	1340	909
55°	862	881	947	1007	1026	770
65°	532	556	602	606	604	527
75°	219	233	226	194	177	235
85°	23	21	16	14	12	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2029.2	2029.2	2029.2	2029.2	2029.2
2.5°	2035.7	2022.1	2029.2	2027.7	2022.6
5°	2025.9	2013.6	2021.6	2019.3	2020.7
7.5°	2009.9	1998.7	2007.1	2006.7	2009.0
10°	1987.9	1976.6	1987.0	1988.8	1991.6
12.5°	1958.8	1949.4	1962.1	1965.8	1971.4
15°	1925.0	1916.6	1931.1	1939.1	1945.2
17.5°	1885.6	1878.5	1897.3	1904.9	1913.3
20°	1840.0	1835.0	1856.9	1864.0	1876.2
22.5°	1789.4	1786.6	1809.6	1820.3	1834.4
25°	1733.5	1734.1	1761.2	1774.0	1788.9
27.5°	1675.0	1675.9	1706.9	1724.6	1740.6
30°	1611.6	1614.4	1648.2	1670.3	1691.3
32.5°	1544.5	1550.1	1586.7	1616.8	1640.2
35°	1476.5	1483.0	1523.4	1560.9	1587.6
37.5°	1402.8	1413.6	1459.2	1503.7	1531.3
40°	1330.6	1341.3	1392.5	1441.7	1469.9
42.5°	1256.0	1269.6	1324.0	1378.9	1406.1
45°	1178.1	1194.0	1253.6	1309.9	1339.5
47.5°	1103.5	1117.6	1180.4	1239.1	1269.6
50°	1021.3	1039.2	1104.4	1165.9	1196.0
52.5°	943.0	959.4	1026.5	1089.5	1116.6
55°	862.4	880.6	947.3	1006.8	1026.1
57.5°	779.7	801.8	866.1	915.9	934.1
60°	697.7	719.7	780.2	821.1	834.7
62.5°	616.0	639.5	692.5	719.7	719.7
65°	532.5	556.5	601.5	606.1	604.3
67.5°	449.0	473.0	507.2	498.7	493.1
70°	367.8	388.5	408.7	393.1	380.1
72.5°	289.0	308.7	312.0	289.5	273.0
75°	218.6	233.2	225.6	193.8	176.9
77.5°	152.4	160.9	145.0	112.6	99.0
80°	95.7	99.4	77.9	54.9	45.9
82.5°	51.6	52.1	33.8	27.7	25.8
85°	23.0	20.6	15.5	13.6	12.2
87.5°	8.0	7.1	5.6	5.2	4.3
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	16.82	18.41	17.19	18.72	19.04	17.81	19.39	18.17	19.71	20.02
	3H	18.23	19.66	18.61	19.98	20.34	19.01	20.43	19.39	20.76	21.12
	4H	18.63	19.96	19.03	20.31	20.69	19.23	20.56	19.63	20.91	21.29
	6H	18.80	20.03	19.21	20.40	20.79	19.25	20.48	19.66	20.84	21.23
	8H	18.82	19.99	19.24	20.38	20.78	19.22	20.40	19.65	20.79	21.19
	12H	18.81	19.93	19.24	20.31	20.74	19.20	20.32	19.63	20.70	21.13
4H	2H	17.49	18.83	17.89	19.18	19.55	18.29	19.62	18.68	19.97	20.34
	3H	19.06	20.17	19.47	20.57	20.97	19.65	20.76	20.06	21.16	21.56
	4H	19.54	20.53	19.97	20.95	21.39	19.93	20.92	20.36	21.34	21.77
	6H	19.78	20.64	20.24	21.08	21.54	19.98	20.84	20.43	21.28	21.74
	8H	19.80	20.61	20.27	21.05	21.52	19.95	20.76	20.42	21.20	21.67
	12H	19.80	20.52	20.28	21.00	21.47	19.93	20.65	20.42	21.13	21.60
8H	4H	19.69	20.49	20.15	20.93	21.40	20.05	20.85	20.51	21.29	21.76
	6H	19.96	20.62	20.46	21.11	21.59	20.11	20.77	20.60	21.26	21.73
	8H	20.00	20.59	20.51	21.10	21.59	20.08	20.68	20.60	21.18	21.67
	12H	20.01	20.54	20.52	21.03	21.59	20.07	20.59	20.58	21.08	21.65
12H	4H	19.67	20.39	20.15	20.86	21.33	20.03	20.75	20.52	21.23	21.70
	6H	19.93	20.52	20.44	21.03	21.52	20.08	20.68	20.60	21.18	21.67
	8H	20.00	20.52	20.51	21.01	21.57	20.08	20.61	20.59	21.10	21.66