

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: P1498810

Luminaire Tested: MAE-G-2-120-3STD-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498810
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-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

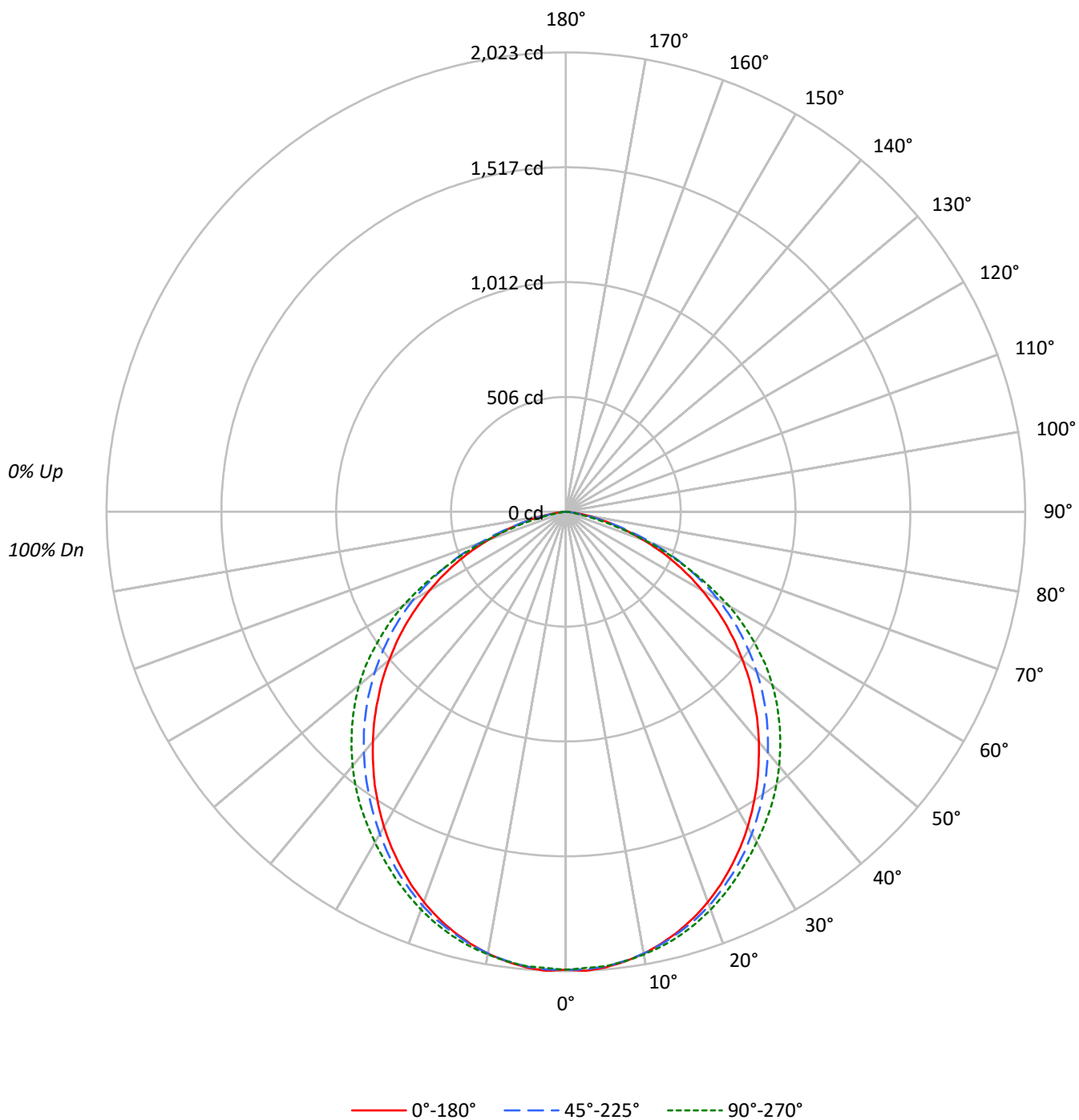
Lumens per Lamp: N/A
Luminaire Lumens: 5112.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	102	102	100
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	56	50	76	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	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5428	5428	5428
5°	5440	5428	5425
10°	5399	5397	5409
15°	5331	5347	5387
20°	5237	5285	5340
25°	5116	5198	5279
30°	4978	5091	5224
35°	4821	4975	5184
40°	4646	4862	5133
45°	4456	4742	5067
50°	4250	4595	4977
55°	4022	4418	4785
60°	3732	4174	4465
65°	3370	3806	3824
70°	2877	3196	2972
75°	2259	2332	1828
80°	1474	1199	708
85°	707	475	377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5067 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	3.7
10°-20°	540.9	10.6
20°-30°	804.5	15.7
30°-40°	948.0	18.5
40°-50°	961.1	18.8
50°-60°	837.5	16.4
60°-70°	572.8	11.2
70°-80°	230.1	4.5
80°-90°	26.7	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°	1535.9	30.0
0°-40°	2483.8	48.6
0°-60°	4282.5	83.8
0°-90°	5112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2017	2017	2017	2017	2017	
5°	2014	2002	2009	2007	2008	191
15°	1913	1905	1919	1927	1934	539
25°	1723	1724	1751	1763	1778	793
35°	1468	1474	1514	1552	1578	917
45°	1171	1187	1246	1302	1331	904
55°	857	875	942	1001	1020	765
65°	529	553	598	602	601	523
75°	217	232	224	193	176	233
85°	23	20	15	14	12	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2017.0	2017.0	2017.0	2017.0	2017.0
2.5°	2023.4	2009.9	2017.0	2015.5	2010.4
5°	2013.7	2001.5	2009.4	2007.2	2008.5
7.5°	1997.8	1986.7	1995.0	1994.6	1996.9
10°	1975.9	1964.7	1975.0	1976.9	1979.6
12.5°	1947.0	1937.7	1950.3	1954.0	1959.5
15°	1913.4	1905.0	1919.4	1927.4	1933.5
17.5°	1874.2	1867.2	1885.8	1893.4	1901.7
20°	1828.9	1823.9	1845.7	1852.8	1864.9
22.5°	1778.6	1775.9	1798.6	1809.4	1823.4
25°	1723.1	1723.6	1750.6	1763.3	1778.1
27.5°	1664.9	1665.8	1696.6	1714.2	1730.1
30°	1601.9	1604.7	1638.3	1660.2	1681.1
32.5°	1535.2	1540.8	1577.1	1607.0	1630.3
35°	1467.6	1474.1	1514.3	1551.5	1578.1
37.5°	1394.4	1405.1	1450.4	1494.7	1522.1
40°	1322.5	1333.3	1384.1	1433.0	1461.1
42.5°	1248.4	1261.9	1316.1	1370.6	1397.6
45°	1171.0	1186.8	1246.1	1302.0	1331.4
47.5°	1096.8	1110.8	1173.3	1231.6	1261.9
50°	1015.2	1032.9	1097.7	1158.9	1188.8
52.5°	937.4	953.6	1020.3	1082.9	1109.9
55°	857.2	875.3	941.6	1000.7	1019.9
57.5°	775.0	797.0	860.9	910.4	928.5
60°	693.5	715.3	775.5	816.1	829.6
62.5°	612.3	635.7	688.3	715.3	715.3
65°	529.3	553.1	597.8	602.5	600.6
67.5°	446.3	470.1	504.1	495.7	490.1
70°	365.6	386.1	406.2	390.8	377.8
72.5°	287.3	306.9	310.2	287.8	271.4
75°	217.3	231.8	224.3	192.6	175.8
77.5°	151.5	160.0	144.1	111.9	98.4
80°	95.1	98.8	77.4	54.5	45.7
82.5°	51.3	51.7	33.6	27.5	25.7
85°	22.9	20.5	15.4	13.5	12.2
87.5°	7.9	7.0	5.6	5.2	4.2
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	16.80	18.39	17.17	18.70	19.02	17.79	19.37	18.15	19.68	20.00
	3H	18.21	19.63	18.59	19.96	20.32	18.99	20.41	19.37	20.74	21.10
	4H	18.61	19.94	19.01	20.29	20.67	19.21	20.54	19.61	20.89	21.27
	6H	18.78	20.01	19.19	20.38	20.77	19.22	20.46	19.64	20.82	21.21
	8H	18.80	19.97	19.22	20.36	20.76	19.20	20.38	19.63	20.76	21.16
	12H	18.79	19.91	19.22	20.29	20.72	19.18	20.30	19.61	20.68	21.11
4H	2H	17.47	18.81	17.87	19.16	19.53	18.26	19.60	18.66	19.95	20.32
	3H	19.04	20.15	19.45	20.55	20.95	19.63	20.74	20.04	21.14	21.54
	4H	19.52	20.51	19.95	20.93	21.36	19.91	20.90	20.34	21.31	21.75
	6H	19.76	20.62	20.21	21.06	21.52	19.96	20.82	20.41	21.26	21.72
	8H	19.78	20.59	20.24	21.03	21.50	19.93	20.74	20.40	21.18	21.65
	12H	19.78	20.50	20.26	20.98	21.45	19.91	20.63	20.39	21.11	21.58
8H	4H	19.66	20.47	20.13	20.91	21.38	20.02	20.83	20.49	21.27	21.74
	6H	19.94	20.60	20.43	21.09	21.57	20.08	20.75	20.58	21.24	21.71
	8H	19.98	20.57	20.49	21.08	21.57	20.06	20.65	20.57	21.16	21.65
	12H	19.99	20.52	20.50	21.01	21.57	20.05	20.57	20.56	21.06	21.62
12H	4H	19.65	20.37	20.13	20.84	21.31	20.01	20.73	20.50	21.21	21.68
	6H	19.91	20.50	20.42	21.01	21.50	20.06	20.65	20.57	21.16	21.65
	8H	19.98	20.50	20.48	20.99	21.55	20.06	20.58	20.57	21.08	21.64