

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: P1498558

Luminaire Tested: MAE-G-2-120-2STD-LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498558
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-2-120-2STD-LO-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

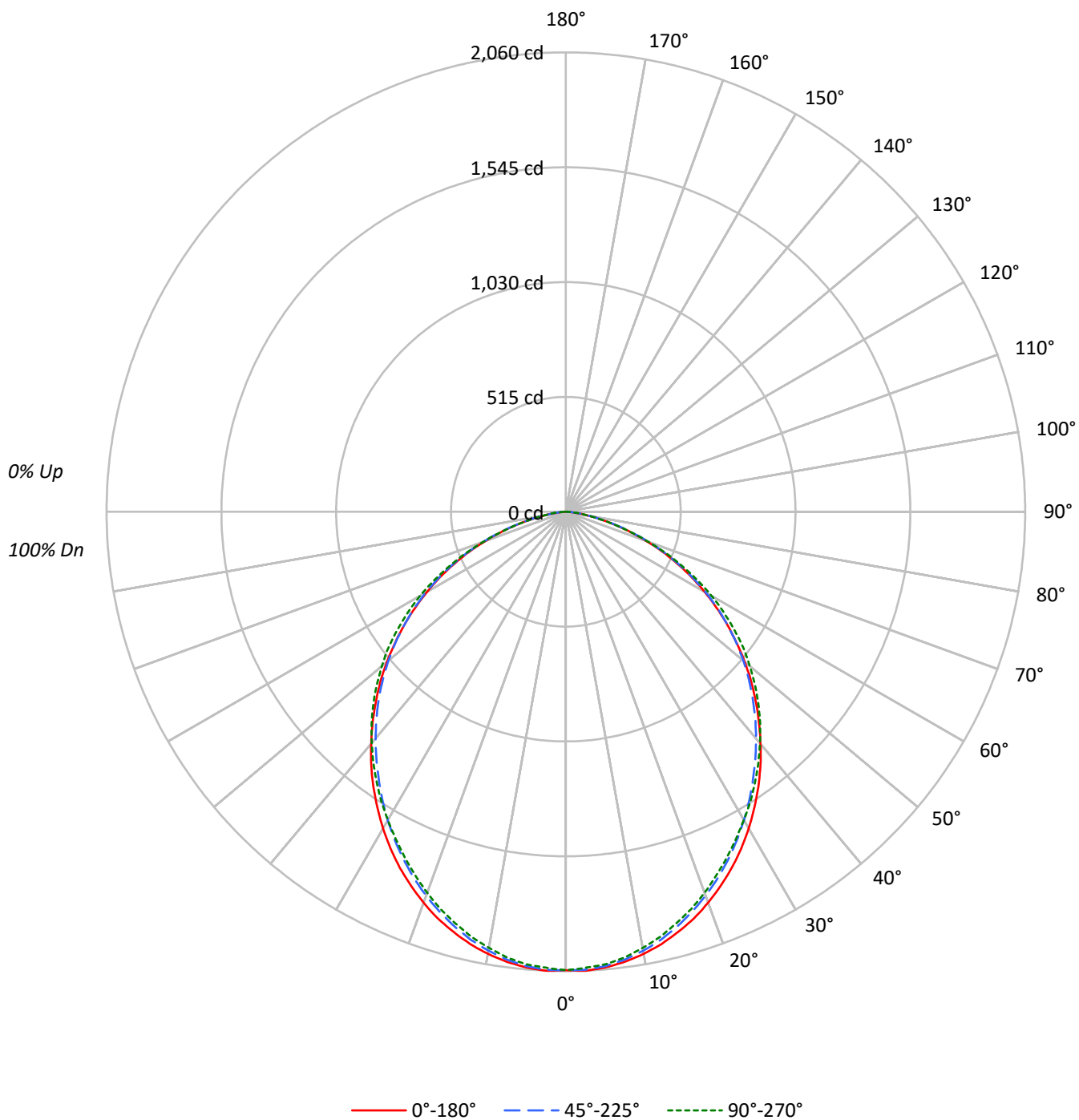
Lumens per Lamp: N/A
Luminaire Lumens: 5027.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5532	5532	5532
5°	5541	5524	5501
10°	5501	5462	5427
15°	5433	5366	5324
20°	5343	5246	5207
25°	5230	5111	5076
30°	5095	4963	4959
35°	4944	4807	4859
40°	4771	4662	4757
45°	4585	4511	4649
50°	4383	4347	4508
55°	4150	4150	4324
60°	3870	3904	4068
65°	3515	3568	3659
70°	3031	3096	3109
75°	2411	2475	2393
80°	1626	1667	1612
85°	827	1071	1340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.4	3.8
10°-20°	542.6	10.8
20°-30°	795.0	15.8
30°-40°	923.8	18.4
40°-50°	924.0	18.4
50°-60°	797.0	15.9
60°-70°	554.5	11.0
70°-80°	251.7	5.0
80°-90°	45.1	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°	1531.0	30.5
0°-40°	2454.8	48.8
0°-60°	4175.8	83.1
0°-90°	5027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2056	2056	2056	2056	2056	
5°	2051	2043	2045	2034	2037	195
15°	1950	1937	1926	1910	1911	550
25°	1761	1744	1721	1706	1710	811
35°	1505	1483	1463	1468	1479	941
45°	1205	1187	1185	1207	1222	929
55°	884	872	885	911	922	790
65°	552	548	560	569	575	546
75°	232	231	238	232	230	250
85°	27	29	35	41	43	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2055.8	2055.8	2055.8	2055.8	2055.8
2.5°	2060.2	2052.6	2055.8	2047.8	2046.6
5°	2051.1	2043.1	2044.8	2034.1	2036.6
7.5°	2035.2	2026.3	2025.4	2013.7	2016.1
10°	2013.2	2002.5	1998.9	1984.6	1986.0
12.5°	1985.1	1973.4	1966.3	1950.1	1952.5
15°	1950.1	1937.2	1926.0	1909.5	1911.2
17.5°	1911.6	1898.1	1881.4	1864.1	1868.1
20°	1865.8	1851.4	1831.9	1813.8	1818.3
22.5°	1815.4	1799.2	1779.2	1761.5	1764.5
25°	1761.4	1743.8	1721.2	1705.8	1709.5
27.5°	1702.8	1683.3	1660.8	1647.6	1652.9
30°	1639.8	1619.6	1597.2	1588.7	1596.0
32.5°	1573.5	1553.2	1531.7	1529.8	1540.3
35°	1505.1	1483.4	1463.4	1467.8	1479.2
37.5°	1433.9	1412.6	1395.8	1406.1	1418.2
40°	1358.1	1338.8	1327.0	1341.4	1354.2
42.5°	1282.3	1263.9	1257.1	1275.7	1289.6
45°	1204.8	1186.8	1185.4	1206.9	1221.6
47.5°	1128.1	1109.7	1113.1	1137.1	1150.3
50°	1046.9	1031.1	1038.3	1063.7	1076.9
52.5°	965.4	950.9	962.2	988.9	1004.5
55°	884.5	871.5	884.6	910.9	921.7
57.5°	801.5	792.1	806.4	829.3	839.8
60°	719.0	710.5	725.3	746.1	755.9
62.5°	635.5	628.6	643.6	660.0	665.5
65°	552.0	547.8	560.4	569.1	574.7
67.5°	470.2	465.9	477.8	485.0	486.4
70°	385.2	383.8	393.5	396.3	395.1
72.5°	307.4	305.3	312.9	311.6	308.9
75°	231.9	231.3	238.0	232.4	230.2
77.5°	163.2	165.7	167.2	162.3	160.4
80°	104.9	108.8	107.6	105.7	104.0
82.5°	58.6	61.5	62.2	68.3	70.8
85°	26.8	29.4	34.7	41.0	43.4
87.5°	9.1	11.3	14.5	15.5	14.6
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	16.87	18.45	17.23	18.77	19.08	17.19	18.77	17.55	19.09	19.40
	3H	18.33	19.75	18.70	20.08	20.44	18.62	20.04	18.99	20.37	20.73
	4H	18.75	20.09	19.15	20.43	20.81	19.00	20.34	19.40	20.69	21.07
	6H	18.95	20.19	19.36	20.55	20.94	19.18	20.42	19.59	20.78	21.17
	8H	18.98	20.15	19.40	20.54	20.94	19.21	20.39	19.64	20.78	21.18
	12H	18.97	20.10	19.40	20.48	20.91	19.23	20.36	19.66	20.74	21.17
4H	2H	17.44	18.78	17.84	19.13	19.50	17.70	19.04	18.10	19.39	19.76
	3H	19.07	20.18	19.48	20.58	20.98	19.31	20.42	19.72	20.82	21.22
	4H	19.58	20.58	20.01	20.99	21.43	19.78	20.78	20.22	21.20	21.64
	6H	19.86	20.73	20.31	21.17	21.63	20.03	20.90	20.49	21.35	21.80
	8H	19.90	20.71	20.36	21.15	21.62	20.09	20.90	20.55	21.34	21.81
	12H	19.91	20.64	20.39	21.11	21.58	20.12	20.85	20.61	21.33	21.80
8H	4H	19.76	20.57	20.22	21.02	21.48	19.95	20.76	20.41	21.20	21.67
	6H	20.09	20.76	20.59	21.25	21.73	20.25	20.92	20.74	21.41	21.88
	8H	20.16	20.76	20.67	21.27	21.75	20.33	20.93	20.84	21.44	21.93
	12H	20.19	20.72	20.70	21.21	21.78	20.40	20.93	20.91	21.42	21.99
12H	4H	19.76	20.48	20.24	20.96	21.43	19.94	20.67	20.42	21.15	21.62
	6H	20.09	20.69	20.60	21.20	21.69	20.24	20.84	20.75	21.35	21.84
	8H	20.19	20.72	20.70	21.21	21.77	20.36	20.89	20.87	21.38	21.94