

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: P1498792

Luminaire Tested: MAE-G-2-120-3STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498792
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-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

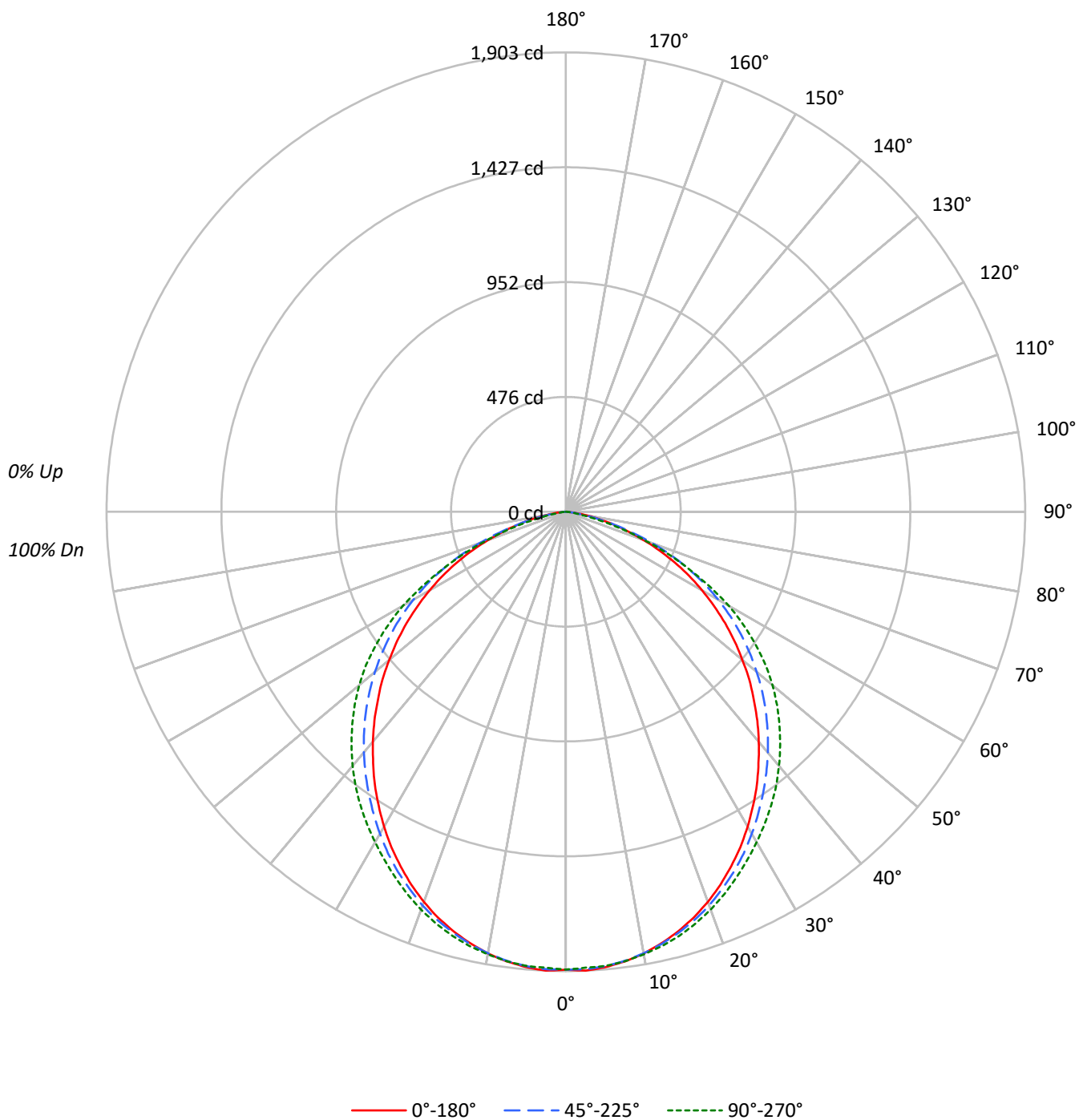
Lumens per Lamp: N/A
Luminaire Lumens: 4807.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5104	5104	5104
5°	5115	5104	5102
10°	5077	5075	5087
15°	5012	5028	5065
20°	4925	4970	5022
25°	4811	4888	4964
30°	4680	4787	4912
35°	4533	4678	4875
40°	4369	4572	4826
45°	4191	4459	4765
50°	3996	4321	4680
55°	3781	4154	4500
60°	3510	3925	4198
65°	3169	3580	3596
70°	2705	3006	2795
75°	2124	2193	1720
80°	1387	1128	665
85°	664	445	352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4765 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.2	3.7
10°-20°	508.6	10.6
20°-30°	756.5	15.7
30°-40°	891.4	18.5
40°-50°	903.8	18.8
50°-60°	787.5	16.4
60°-70°	538.6	11.2
70°-80°	216.4	4.5
80°-90°	25.1	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°	1444.2	30.0
0°-40°	2335.6	48.6
0°-60°	4026.9	83.8
0°-90°	4807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1897	1897	1897	1897	1897	
5°	1894	1882	1890	1887	1889	180
15°	1799	1791	1805	1812	1818	507
25°	1620	1621	1646	1658	1672	746
35°	1380	1386	1424	1459	1484	862
45°	1101	1116	1172	1224	1252	850
55°	806	823	885	941	959	720
65°	498	520	562	566	565	492
75°	204	218	211	181	165	219
85°	22	19	14	13	11	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1896.6	1896.6	1896.6	1896.6	1896.6
2.5°	1902.7	1890.0	1896.6	1895.3	1890.4
5°	1893.5	1882.1	1889.5	1887.4	1888.7
7.5°	1878.6	1868.1	1876.0	1875.6	1877.7
10°	1858.0	1847.5	1857.2	1858.9	1861.5
12.5°	1830.8	1822.1	1833.9	1837.4	1842.6
15°	1799.2	1791.4	1804.9	1812.4	1818.1
17.5°	1762.4	1755.8	1773.3	1780.4	1788.3
20°	1719.8	1715.1	1735.6	1742.2	1753.7
22.5°	1672.5	1669.9	1691.3	1701.4	1714.6
25°	1620.3	1620.8	1646.2	1658.1	1672.0
27.5°	1565.5	1566.4	1595.4	1612.0	1626.9
30°	1506.3	1508.9	1540.5	1561.2	1580.8
32.5°	1443.6	1448.8	1483.0	1511.1	1533.1
35°	1380.0	1386.1	1423.9	1458.9	1483.9
37.5°	1311.2	1321.3	1363.8	1405.5	1431.3
40°	1243.6	1253.7	1301.5	1347.5	1373.9
42.5°	1173.9	1186.6	1237.5	1288.8	1314.2
45°	1101.2	1116.0	1171.7	1224.3	1252.0
47.5°	1031.4	1044.6	1103.3	1158.1	1186.6
50°	954.6	971.3	1032.2	1089.7	1117.8
52.5°	881.4	896.7	959.5	1018.3	1043.7
55°	806.0	823.1	885.4	941.0	959.1
57.5°	728.8	749.4	809.5	856.0	873.1
60°	652.1	672.7	729.3	767.4	780.1
62.5°	575.7	597.7	647.3	672.7	672.7
65°	497.7	520.1	562.2	566.5	564.8
67.5°	419.7	442.1	474.1	466.1	460.9
70°	343.8	363.1	382.0	367.4	355.2
72.5°	270.1	288.5	291.6	270.6	255.2
75°	204.3	218.0	210.9	181.2	165.4
77.5°	142.5	150.4	135.5	105.3	92.6
80°	89.5	93.0	72.8	51.3	42.9
82.5°	48.3	48.7	31.6	25.9	24.1
85°	21.5	19.3	14.4	12.7	11.4
87.5°	7.5	6.6	5.2	4.8	4.0
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	16.59	18.17	16.95	18.49	18.80	17.57	19.16	17.94	19.47	19.78
	3H	18.00	19.42	18.38	19.75	20.11	18.78	20.20	19.15	20.53	20.89
	4H	18.39	19.73	18.79	20.08	20.45	18.99	20.33	19.39	20.68	21.05
	6H	18.57	19.80	18.98	20.17	20.56	19.01	20.24	19.42	20.61	21.00
	8H	18.58	19.76	19.01	20.15	20.55	18.99	20.16	19.41	20.55	20.95
	12H	18.57	19.70	19.00	20.08	20.51	18.96	20.09	19.39	20.47	20.90
4H	2H	17.26	18.59	17.66	18.94	19.32	18.05	19.38	18.45	19.73	20.11
	3H	18.83	19.93	19.24	20.33	20.73	19.42	20.53	19.83	20.92	21.32
	4H	19.31	20.30	19.74	20.71	21.15	19.69	20.69	20.12	21.10	21.54
	6H	19.54	20.41	20.00	20.85	21.31	19.74	20.61	20.20	21.05	21.51
	8H	19.57	20.37	20.03	20.82	21.28	19.72	20.52	20.18	20.97	21.43
	12H	19.57	20.29	20.05	20.76	21.24	19.70	20.42	20.18	20.90	21.37
8H	4H	19.45	20.26	19.91	20.70	21.17	19.81	20.62	20.27	21.06	21.53
	6H	19.73	20.39	20.22	20.88	21.35	19.87	20.53	20.37	21.02	21.50
	8H	19.77	20.36	20.28	20.87	21.35	19.85	20.44	20.36	20.95	21.44
	12H	19.78	20.30	20.29	20.79	21.36	19.83	20.36	20.34	20.85	21.41
12H	4H	19.43	20.15	19.91	20.63	21.10	19.80	20.52	20.28	21.00	21.47
	6H	19.70	20.29	20.21	20.80	21.29	19.85	20.44	20.36	20.95	21.44
	8H	19.76	20.28	20.27	20.78	21.34	19.85	20.37	20.36	20.86	21.43

END OF REPORT