

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: P1499086

Luminaire Tested: MAE-G-4-120-1STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

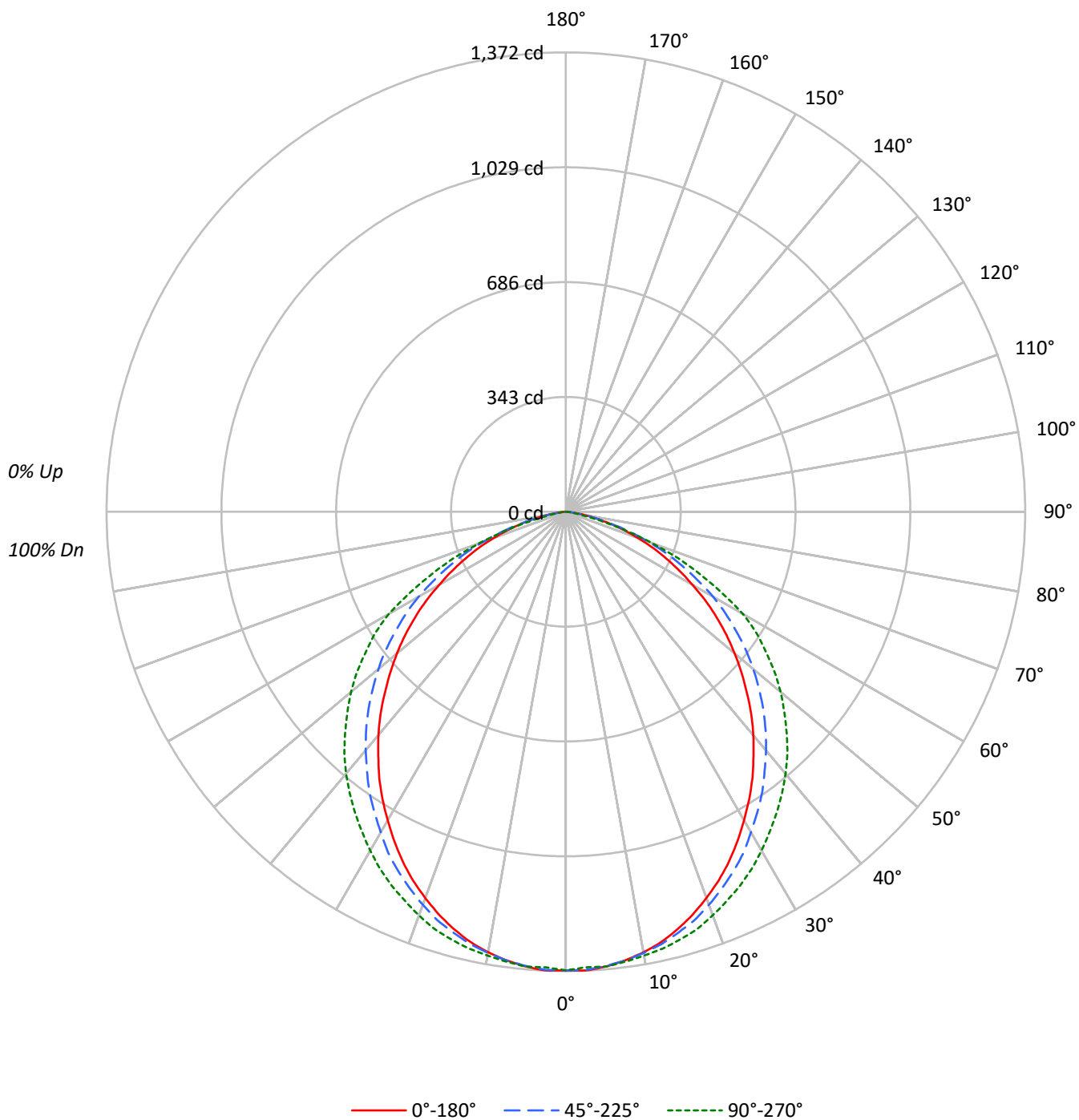
Lumens per Lamp: N/A
Luminaire Lumens: 3448.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.1
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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1843	1843	1843
5°	1842	1839	1842
10°	1825	1828	1839
15°	1798	1812	1842
20°	1758	1789	1837
25°	1711	1758	1828
30°	1653	1718	1816
35°	1596	1680	1803
40°	1530	1634	1793
45°	1455	1586	1774
50°	1378	1530	1753
55°	1290	1456	1710
60°	1177	1368	1644
65°	1054	1223	1412
70°	899	1031	1078
75°	697	748	605
80°	458	397	214
85°	244	182	122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	3.8
10°-20°	367.6	10.7
20°-30°	546.5	15.9
30°-40°	642.6	18.6
40°-50°	648.5	18.8
50°-60°	563.1	16.3
60°-70°	383.3	11.1
70°-80°	149.3	4.3
80°-90°	17.9	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°	1043.4	30.3
0°-40°	1686.0	48.9
0°-60°	2897.6	84.0
0°-90°	3448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3448.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1370	1370	1370	1370	1370	
5°	1364	1362	1362	1362	1364	129
15°	1291	1293	1301	1314	1322	363
25°	1153	1159	1184	1214	1232	530
35°	972	983	1023	1070	1098	607
45°	765	784	834	899	932	590
55°	550	568	621	692	729	491
65°	331	347	384	426	443	329
75°	134	142	144	130	116	146
85°	16	16	12	10	8	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1369.6	1369.6	1369.6	1369.6	1369.6
2.5°	1371.5	1371.5	1369.6	1363.7	1361.7
5°	1363.7	1361.7	1361.7	1361.7	1363.7
7.5°	1351.8	1351.8	1351.8	1353.8	1355.8
10°	1336.1	1336.1	1338.0	1342.0	1345.9
12.5°	1316.4	1318.3	1322.3	1330.2	1336.1
15°	1290.7	1292.7	1300.6	1314.4	1322.3
17.5°	1261.2	1267.1	1278.9	1294.7	1306.5
20°	1227.7	1233.6	1249.4	1269.1	1282.9
22.5°	1192.2	1198.1	1217.8	1241.5	1257.2
25°	1152.8	1158.7	1184.3	1213.9	1231.6
27.5°	1109.5	1117.3	1148.9	1180.4	1202.1
30°	1064.1	1074.0	1105.5	1144.9	1168.6
32.5°	1018.8	1030.6	1064.1	1109.5	1133.1
35°	971.5	983.3	1022.7	1070.0	1097.6
37.5°	920.3	934.1	975.5	1032.6	1060.2
40°	871.0	884.8	930.1	991.2	1020.8
42.5°	819.8	835.5	882.8	945.9	979.4
45°	764.6	784.3	833.6	898.6	932.1
47.5°	711.4	729.1	782.3	849.3	884.8
50°	658.2	677.9	731.1	800.1	837.5
52.5°	605.0	622.7	677.9	746.9	786.3
55°	549.8	567.5	620.7	691.7	729.1
57.5°	494.6	516.3	565.6	634.5	675.9
60°	437.5	457.2	508.4	577.4	610.9
62.5°	384.3	402.0	445.4	510.4	526.2
65°	331.1	346.8	384.3	425.7	443.4
67.5°	281.8	293.6	327.1	354.7	362.6
70°	228.6	240.4	262.1	277.9	273.9
72.5°	181.3	189.2	203.0	201.0	191.1
75°	134.0	141.9	143.9	130.1	116.3
77.5°	94.6	98.5	92.6	72.9	59.1
80°	59.1	61.1	51.2	31.5	27.6
82.5°	33.5	33.5	23.6	19.7	15.8
85°	15.8	15.8	11.8	9.9	7.9
87.5°	5.9	5.9	3.9	3.9	3.9
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	12.73	14.31	13.09	14.62	14.93	14.31	15.89	14.67	16.20	16.51
	3H	14.06	15.48	14.44	15.81	16.17	15.58	16.99	15.95	17.32	17.68
	4H	14.43	15.76	14.83	16.11	16.49	15.77	17.10	16.17	17.45	17.83
	6H	14.60	15.82	15.01	16.19	16.58	15.77	17.00	16.18	17.36	17.75
	8H	14.61	15.78	15.04	16.17	16.57	15.74	16.91	16.17	17.30	17.70
	12H	14.60	15.72	15.03	16.10	16.53	15.72	16.84	16.15	17.22	17.65
4H	2H	13.39	14.72	13.79	15.07	15.45	14.68	16.01	15.08	16.36	16.74
	3H	14.89	15.99	15.30	16.39	16.79	16.12	17.22	16.53	17.62	18.02
	4H	15.33	16.32	15.76	16.74	17.17	16.38	17.36	16.81	17.78	18.22
	6H	15.56	16.42	16.01	16.86	17.32	16.40	17.26	16.86	17.70	18.16
	8H	15.58	16.38	16.04	16.83	17.29	16.38	17.18	16.84	17.62	18.09
	12H	15.59	16.30	16.07	16.78	17.25	16.35	17.07	16.84	17.55	18.02
8H	4H	15.49	16.29	15.95	16.73	17.20	16.46	17.26	16.92	17.70	18.17
	6H	15.75	16.41	16.25	16.90	17.38	16.49	17.15	16.99	17.64	18.12
	8H	15.79	16.38	16.30	16.89	17.38	16.47	17.06	16.98	17.56	18.05
	12H	15.81	16.33	16.32	16.82	17.39	16.45	16.97	16.96	17.46	18.03
12H	4H	15.47	16.19	15.95	16.66	17.14	16.44	17.16	16.93	17.64	18.11
	6H	15.72	16.31	16.23	16.82	17.31	16.47	17.06	16.98	17.57	18.05
	8H	15.79	16.31	16.30	16.80	17.36	16.46	16.98	16.97	17.47	18.04