

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: P1499092

Luminaire Tested: MAE-G-4-120-1STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499092
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-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

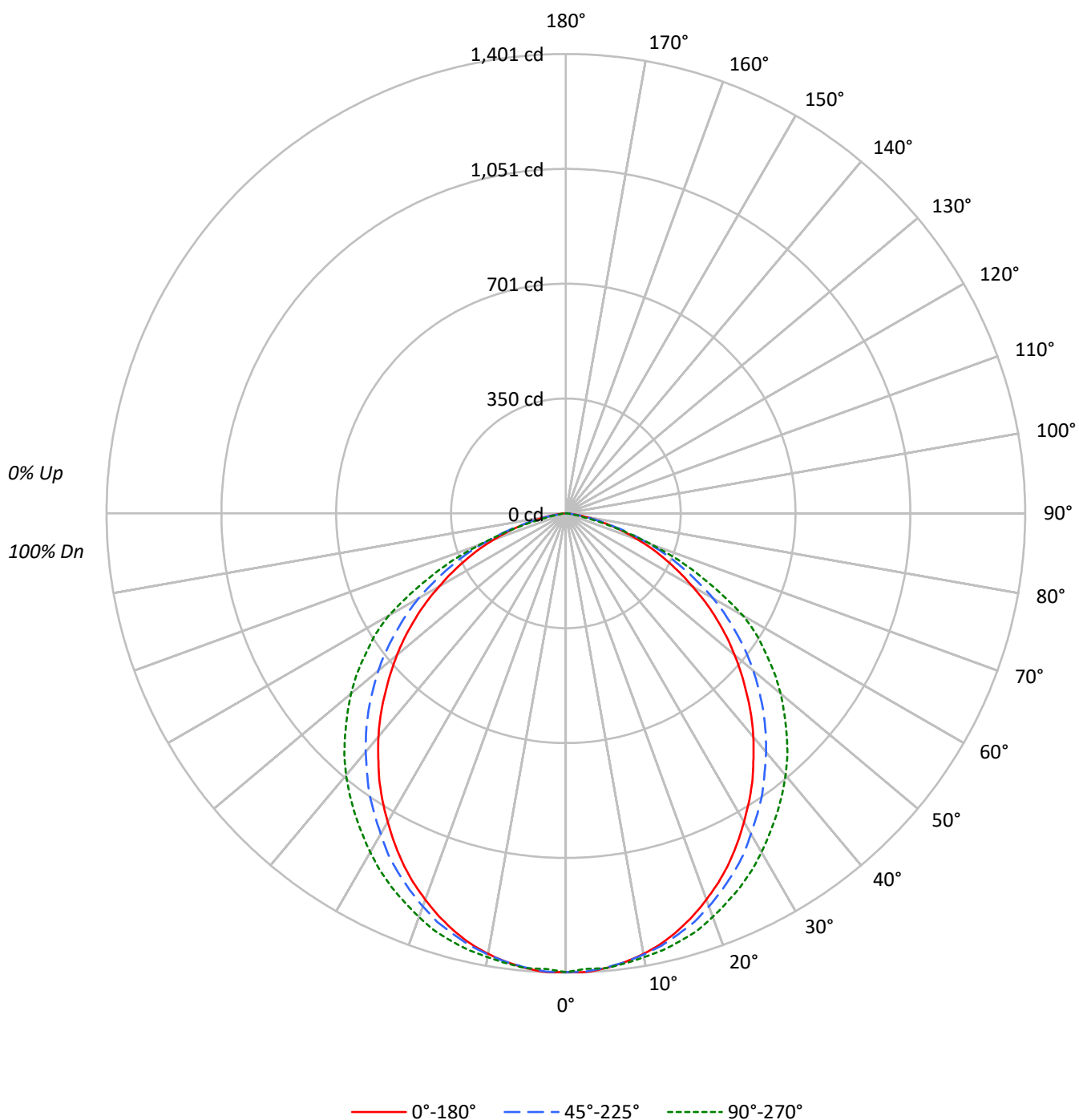
Lumens per Lamp: N/A
Luminaire Lumens: 3521.0 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1882	1882	1882
5°	1881	1878	1881
10°	1864	1867	1878
15°	1836	1850	1881
20°	1795	1827	1876
25°	1748	1795	1867
30°	1688	1754	1854
35°	1630	1715	1841
40°	1562	1668	1831
45°	1486	1620	1811
50°	1407	1563	1790
55°	1317	1487	1747
60°	1202	1397	1679
65°	1076	1249	1442
70°	918	1053	1100
75°	711	764	617
80°	468	405	219
85°	249	187	124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1811 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	3.8
10°-20°	375.4	10.7
20°-30°	558.1	15.9
30°-40°	656.2	18.6
40°-50°	662.2	18.8
50°-60°	575.0	16.3
60°-70°	391.4	11.1
70°-80°	152.5	4.3
80°-90°	18.2	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°	1065.5	30.3
0°-40°	1721.7	48.9
0°-60°	2958.9	84.0
0°-90°	3521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1392	1390	1390	1390	1392	132
15°	1318	1320	1328	1342	1350	371
25°	1177	1183	1209	1240	1258	541
35°	992	1004	1044	1093	1121	620
45°	781	801	851	918	952	603
55°	561	580	634	706	745	501
65°	338	354	392	435	453	336
75°	137	145	147	133	119	149
85°	16	16	12	10	8	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1398.6	1398.6	1398.6	1398.6	1398.6
2.5°	1400.6	1400.6	1398.6	1392.5	1390.5
5°	1392.5	1390.5	1390.5	1390.5	1392.5
7.5°	1380.5	1380.5	1380.5	1382.5	1384.5
10°	1364.4	1364.4	1366.4	1370.4	1374.4
12.5°	1344.2	1346.2	1350.3	1358.3	1364.4
15°	1318.1	1320.1	1328.1	1342.2	1350.3
17.5°	1287.9	1293.9	1306.0	1322.1	1334.2
20°	1253.7	1259.7	1275.8	1295.9	1310.0
22.5°	1217.5	1223.5	1243.6	1267.8	1283.9
25°	1177.2	1183.2	1209.4	1239.6	1257.7
27.5°	1132.9	1141.0	1173.2	1205.4	1227.5
30°	1086.7	1096.7	1128.9	1169.2	1193.3
32.5°	1040.4	1052.4	1086.7	1132.9	1157.1
35°	992.1	1004.2	1044.4	1092.7	1120.9
37.5°	939.8	953.8	996.1	1054.5	1082.6
40°	889.4	903.5	949.8	1012.2	1042.4
42.5°	837.1	853.2	901.5	965.9	1000.1
45°	780.8	800.9	851.2	917.6	951.8
47.5°	726.5	744.6	798.9	867.3	903.5
50°	672.1	692.2	746.6	817.0	855.2
52.5°	617.8	635.9	692.2	762.7	802.9
55°	561.4	579.6	633.9	706.3	744.6
57.5°	505.1	527.2	577.5	648.0	690.2
60°	446.7	466.9	519.2	589.6	623.8
62.5°	392.4	410.5	454.8	521.2	537.3
65°	338.1	354.2	392.4	434.7	452.8
67.5°	287.8	299.8	334.0	362.2	370.3
70°	233.4	245.5	267.6	283.7	279.7
72.5°	185.1	193.2	207.3	205.3	195.2
75°	136.8	144.9	146.9	132.8	118.7
77.5°	96.6	100.6	94.6	74.5	60.4
80°	60.4	62.4	52.3	32.2	28.2
82.5°	34.2	34.2	24.1	20.1	16.1
85°	16.1	16.1	12.1	10.1	8.0
87.5°	6.0	6.0	4.0	4.0	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	12.80	14.38	13.17	14.69	15.01	14.38	15.96	14.75	16.27	16.59
	3H	14.14	15.55	14.51	15.88	16.24	15.65	17.07	16.03	17.39	17.75
	4H	14.50	15.83	14.90	16.18	16.56	15.84	17.17	16.24	17.52	17.90
	6H	14.67	15.90	15.08	16.26	16.65	15.84	17.07	16.25	17.44	17.83
	8H	14.68	15.85	15.11	16.24	16.64	15.82	16.99	16.24	17.37	17.77
	12H	14.68	15.80	15.11	16.18	16.61	15.79	16.91	16.22	17.29	17.72
4H	2H	13.47	14.79	13.86	15.14	15.52	14.76	16.09	15.16	16.44	16.81
	3H	14.96	16.06	15.37	16.46	16.86	16.20	17.30	16.61	17.70	18.10
	4H	15.40	16.39	15.84	16.81	17.25	16.45	17.44	16.88	17.85	18.29
	6H	15.63	16.49	16.09	16.93	17.39	16.48	17.33	16.93	17.78	18.23
	8H	15.65	16.46	16.12	16.90	17.37	16.45	17.25	16.91	17.69	18.16
	12H	15.66	16.37	16.14	16.85	17.32	16.43	17.14	16.91	17.62	18.09
8H	4H	15.56	16.36	16.03	16.81	17.27	16.53	17.33	16.99	17.78	18.24
	6H	15.82	16.48	16.32	16.97	17.45	16.57	17.22	17.06	17.71	18.19
	8H	15.86	16.45	16.38	16.96	17.45	16.54	17.13	17.05	17.64	18.13
	12H	15.88	16.40	16.39	16.90	17.46	16.52	17.04	17.03	17.53	18.10
12H	4H	15.54	16.26	16.03	16.74	17.21	16.52	17.23	17.00	17.71	18.18
	6H	15.79	16.38	16.31	16.89	17.38	16.54	17.13	17.05	17.64	18.13
	8H	15.86	16.38	16.37	16.87	17.44	16.54	17.06	17.05	17.55	18.11