

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: P1499080

Luminaire Tested: MAE-G-4-120-1STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499080
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-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

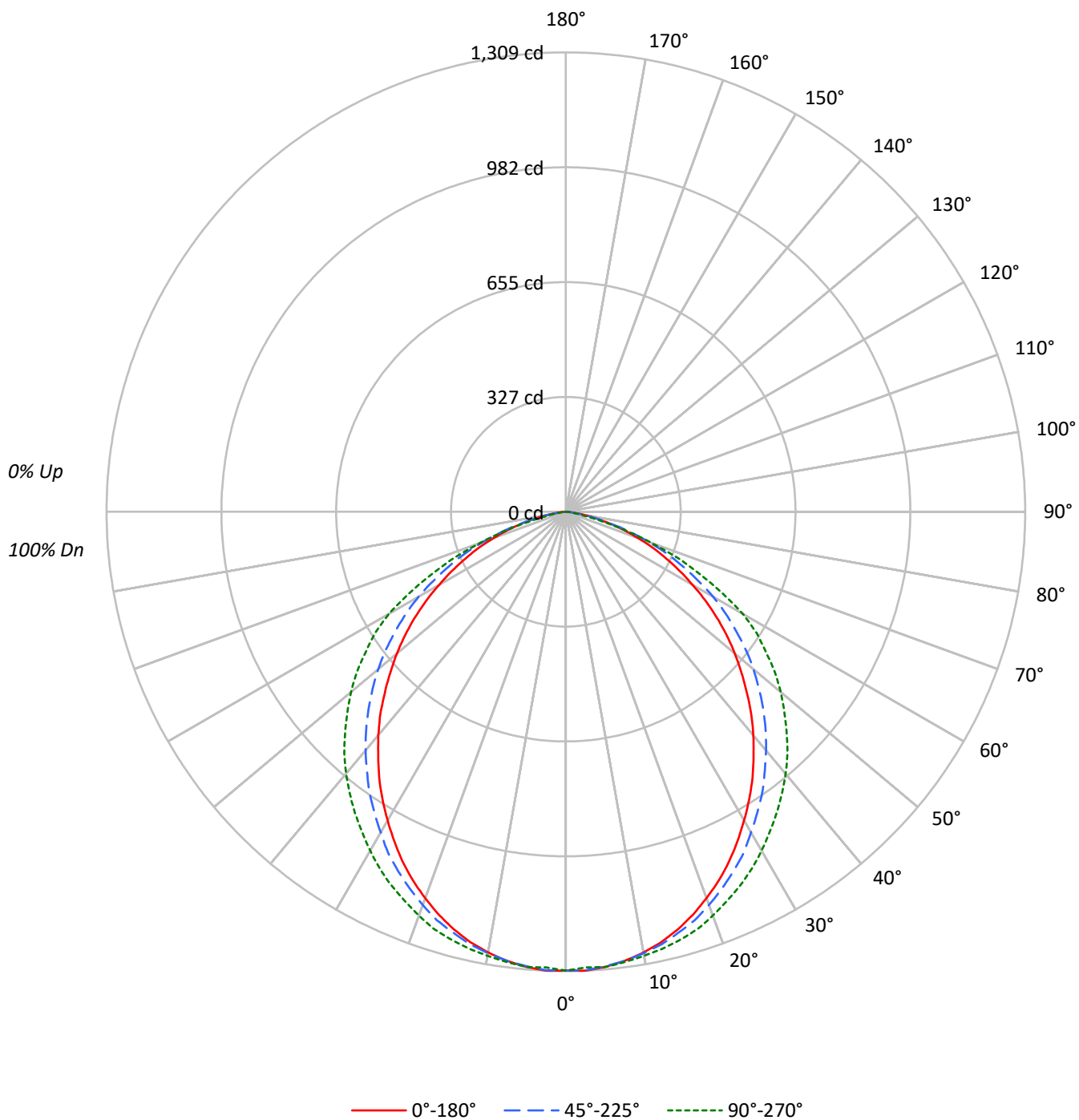
Lumens per Lamp: N/A
Luminaire Lumens: 3291.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1759	1759	1759
5°	1758	1755	1758
10°	1742	1745	1755
15°	1716	1729	1758
20°	1678	1707	1753
25°	1633	1678	1745
30°	1578	1639	1733
35°	1523	1603	1721
40°	1460	1559	1711
45°	1389	1514	1693
50°	1315	1461	1673
55°	1231	1390	1632
60°	1124	1306	1569
65°	1006	1168	1347
70°	858	984	1028
75°	665	714	577
80°	437	379	204
85°	232	174	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1693 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.8
10°-20°	350.8	10.7
20°-30°	521.6	15.9
30°-40°	613.3	18.6
40°-50°	619.0	18.8
50°-60°	537.5	16.3
60°-70°	365.8	11.1
70°-80°	142.5	4.3
80°-90°	17.1	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°	995.9	30.3
0°-40°	1609.2	48.9
0°-60°	2765.6	84.0
0°-90°	3291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1307	1307	1307	1307	1307	
5°	1302	1300	1300	1300	1302	123
15°	1232	1234	1241	1254	1262	347
25°	1100	1106	1130	1159	1176	506
35°	927	939	976	1021	1048	579
45°	730	749	796	858	890	563
55°	525	542	592	660	696	469
65°	316	331	367	406	423	314
75°	128	135	137	124	111	139
85°	15	15	11	9	8	22
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1307.2	1307.2	1307.2	1307.2	1307.2
2.5°	1309.1	1309.1	1307.2	1301.6	1299.7
5°	1301.6	1299.7	1299.7	1299.7	1301.6
7.5°	1290.3	1290.3	1290.3	1292.2	1294.0
10°	1275.2	1275.2	1277.1	1280.9	1284.6
12.5°	1256.4	1258.3	1262.1	1269.6	1275.2
15°	1232.0	1233.9	1241.4	1254.5	1262.1
17.5°	1203.8	1209.4	1220.7	1235.7	1247.0
20°	1171.8	1177.4	1192.5	1211.3	1224.5
22.5°	1137.9	1143.6	1162.4	1185.0	1200.0
25°	1100.3	1106.0	1130.4	1158.6	1175.5
27.5°	1058.9	1066.5	1096.6	1126.6	1147.3
30°	1015.7	1025.1	1055.2	1092.8	1115.4
32.5°	972.4	983.7	1015.7	1058.9	1081.5
35°	927.3	938.6	976.2	1021.3	1047.6
37.5°	878.4	891.5	931.0	985.6	1011.9
40°	831.3	844.5	887.8	946.1	974.3
42.5°	782.4	797.5	842.6	902.8	934.8
45°	729.8	748.6	795.6	857.7	889.7
47.5°	679.0	695.9	746.7	810.7	844.5
50°	628.2	647.0	697.8	763.6	799.4
52.5°	577.4	594.4	647.0	712.9	750.5
55°	524.8	541.7	592.5	660.2	695.9
57.5°	472.1	492.8	539.8	605.6	645.1
60°	417.6	436.4	485.3	551.1	583.1
62.5°	366.8	383.7	425.1	487.1	502.2
65°	316.0	331.0	366.8	406.3	423.2
67.5°	269.0	280.3	312.2	338.6	346.1
70°	218.2	229.5	250.2	265.2	261.4
72.5°	173.0	180.6	193.7	191.8	182.4
75°	127.9	135.4	137.3	124.1	111.0
77.5°	90.3	94.0	88.4	69.6	56.4
80°	56.4	58.3	48.9	30.1	26.3
82.5°	32.0	32.0	22.6	18.8	15.0
85°	15.0	15.0	11.3	9.4	7.5
87.5°	5.6	5.6	3.8	3.8	3.8
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	12.57	14.14	12.93	14.46	14.77	14.15	15.72	14.51	16.04	16.35
	3H	13.90	15.32	14.28	15.65	16.01	15.41	16.83	15.79	17.16	17.52
	4H	14.27	15.60	14.67	15.95	16.32	15.61	16.94	16.01	17.29	17.66
	6H	14.43	15.66	14.85	16.03	16.42	15.61	16.83	16.02	17.20	17.59
	8H	14.45	15.62	14.87	16.01	16.41	15.58	16.75	16.01	17.14	17.54
	12H	14.44	15.56	14.87	15.94	16.37	15.55	16.67	15.98	17.06	17.48
4H	2H	13.23	14.56	13.63	14.91	15.29	14.52	15.85	14.92	16.20	16.58
	3H	14.73	15.83	15.14	16.23	16.63	15.96	17.06	16.37	17.46	17.86
	4H	15.17	16.16	15.60	16.57	17.01	16.21	17.20	16.64	17.62	18.05
	6H	15.40	16.25	15.85	16.70	17.15	16.24	17.10	16.70	17.54	18.00
	8H	15.42	16.22	15.88	16.66	17.13	16.21	17.01	16.68	17.46	17.92
	12H	15.42	16.14	15.91	16.62	17.09	16.19	16.91	16.67	17.38	17.85
8H	4H	15.33	16.13	15.79	16.57	17.04	16.30	17.10	16.76	17.54	18.01
	6H	15.59	16.25	16.08	16.74	17.21	16.33	16.99	16.83	17.48	17.96
	8H	15.63	16.22	16.14	16.73	17.22	16.30	16.89	16.82	17.40	17.89
	12H	15.65	16.17	16.16	16.66	17.23	16.29	16.81	16.80	17.30	17.86
12H	4H	15.31	16.03	15.79	16.50	16.97	16.28	17.00	16.76	17.48	17.95
	6H	15.56	16.15	16.07	16.66	17.15	16.30	16.89	16.82	17.40	17.89
	8H	15.63	16.15	16.14	16.64	17.20	16.30	16.82	16.81	17.31	17.88