

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: P1498990

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498990
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-4-120-1LO-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

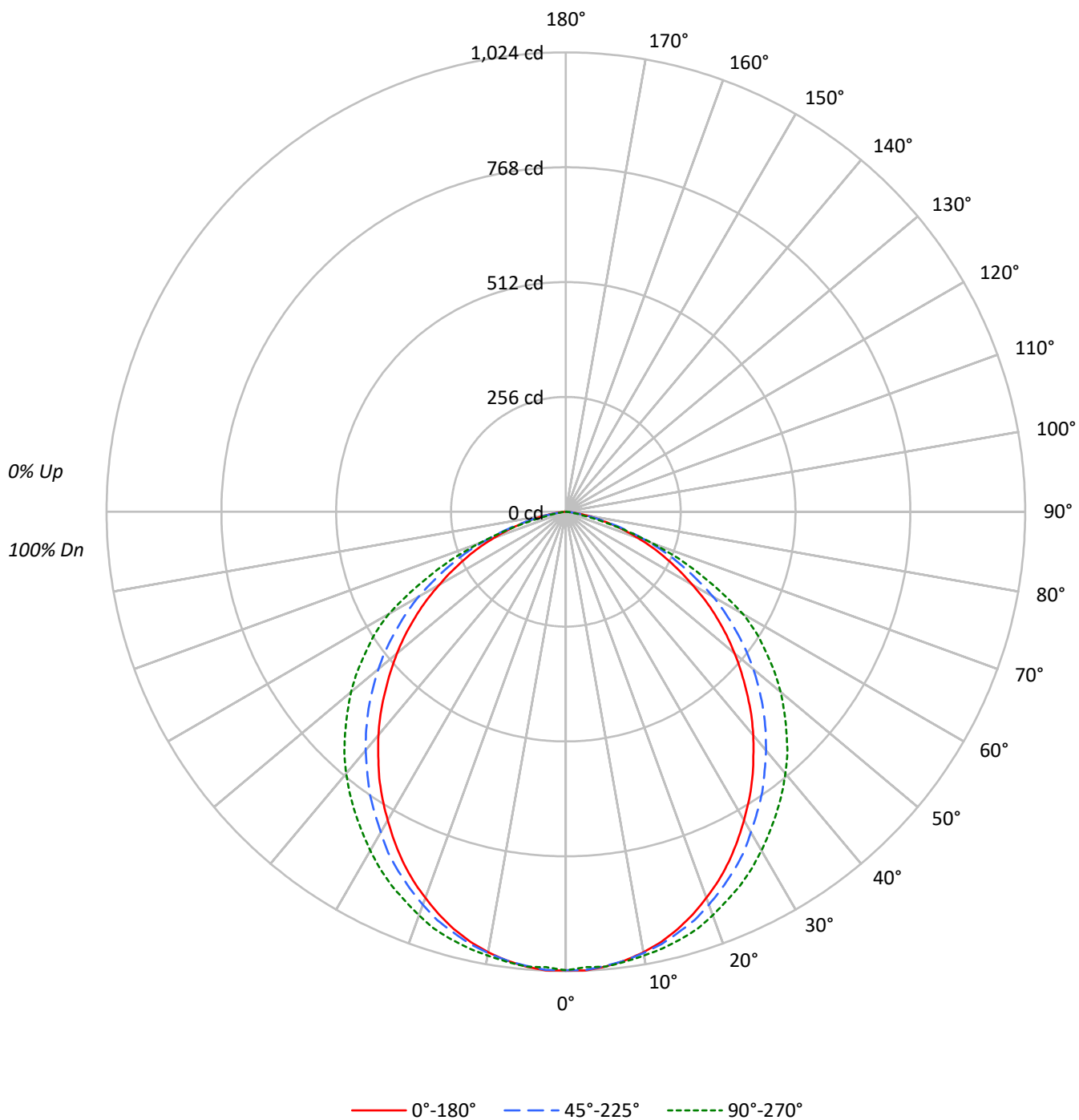
Lumens per Lamp: N/A
Luminaire Lumens: 2573.0 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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°	1375	1375	1375
5°	1374	1372	1374
10°	1362	1364	1372
15°	1342	1352	1374
20°	1312	1335	1371
25°	1277	1312	1364
30°	1234	1282	1355
35°	1191	1254	1345
40°	1142	1219	1338
45°	1086	1184	1324
50°	1028	1142	1308
55°	962	1087	1276
60°	879	1021	1227
65°	786	913	1053
70°	671	769	804
75°	520	558	451
80°	342	296	160
85°	182	136	91

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1324 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.5	3.8
10°-20°	274.3	10.7
20°-30°	407.8	15.9
30°-40°	479.5	18.6
40°-50°	484.0	18.8
50°-60°	420.2	16.3
60°-70°	286.0	11.1
70°-80°	111.4	4.3
80°-90°	13.3	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°	778.6	30.3
0°-40°	1258.1	48.9
0°-60°	2162.3	84.0
0°-90°	2573.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2573.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1018	1016	1016	1016	1018	96
15°	963	965	970	981	987	271
25°	860	865	884	906	919	396
35°	725	734	763	798	819	453
45°	571	585	622	671	696	440
55°	410	424	463	516	544	366
65°	247	259	287	318	331	245
75°	100	106	107	97	87	109
85°	12	12	9	7	6	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.0	1022.0	1022.0	1022.0	1022.0
2.5°	1023.5	1023.5	1022.0	1017.6	1016.1
5°	1017.6	1016.1	1016.1	1016.1	1017.6
7.5°	1008.8	1008.8	1008.8	1010.3	1011.7
10°	997.0	997.0	998.5	1001.4	1004.4
12.5°	982.3	983.8	986.7	992.6	997.0
15°	963.2	964.7	970.5	980.8	986.7
17.5°	941.1	945.5	954.4	966.1	975.0
20°	916.1	920.5	932.3	947.0	957.3
22.5°	889.7	894.1	908.8	926.4	938.2
25°	860.3	864.7	883.8	905.8	919.1
27.5°	827.9	833.8	857.3	880.8	897.0
30°	794.1	801.4	825.0	854.4	872.0
32.5°	760.3	769.1	794.1	827.9	845.6
35°	725.0	733.8	763.2	798.5	819.1
37.5°	686.7	697.0	727.9	770.6	791.1
40°	650.0	660.3	694.1	739.7	761.7
42.5°	611.7	623.5	658.8	705.9	730.9
45°	570.6	585.3	622.0	670.6	695.6
47.5°	530.9	544.1	583.8	633.8	660.3
50°	491.2	505.9	545.6	597.0	625.0
52.5°	451.5	464.7	505.9	557.3	586.7
55°	410.3	423.5	463.2	516.2	544.1
57.5°	369.1	385.3	422.0	473.5	504.4
60°	326.5	341.2	379.4	430.9	455.9
62.5°	286.8	300.0	332.3	380.9	392.6
65°	247.0	258.8	286.8	317.6	330.9
67.5°	210.3	219.1	244.1	264.7	270.6
70°	170.6	179.4	195.6	207.3	204.4
72.5°	135.3	141.2	151.5	150.0	142.6
75°	100.0	105.9	107.3	97.1	86.8
77.5°	70.6	73.5	69.1	54.4	44.1
80°	44.1	45.6	38.2	23.5	20.6
82.5°	25.0	25.0	17.6	14.7	11.8
85°	11.8	11.8	8.8	7.4	5.9
87.5°	4.4	4.4	2.9	2.9	2.9
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	11.71	13.29	12.08	13.60	13.92	13.29	14.87	13.66	15.18	15.50
	3H	13.05	14.46	13.42	14.79	15.15	14.56	15.98	14.94	16.30	16.66
	4H	13.41	14.74	13.81	15.09	15.47	14.75	16.08	15.15	16.43	16.81
	6H	13.58	14.81	13.99	15.17	15.56	14.75	15.98	15.16	16.35	16.74
	8H	13.59	14.76	14.02	15.15	15.55	14.73	15.90	15.15	16.28	16.68
	12H	13.59	14.71	14.02	15.09	15.52	14.70	15.82	15.13	16.20	16.63
4H	2H	12.38	13.71	12.77	14.05	14.43	13.67	15.00	14.07	15.35	15.72
	3H	13.87	14.97	14.28	15.37	15.77	15.11	16.21	15.52	16.61	17.01
	4H	14.32	15.31	14.75	15.72	16.16	15.36	16.35	15.79	16.76	17.20
	6H	14.54	15.40	15.00	15.84	16.30	15.39	16.24	15.84	16.69	17.14
	8H	14.57	15.37	15.03	15.81	16.28	15.36	16.16	15.82	16.60	17.07
	12H	14.57	15.28	15.05	15.76	16.23	15.34	16.05	15.82	16.53	17.00
8H	4H	14.47	15.27	14.94	15.72	16.18	15.44	16.24	15.90	16.69	17.15
	6H	14.73	15.39	15.23	15.88	16.36	15.48	16.13	15.97	16.62	17.10
	8H	14.77	15.36	15.29	15.87	16.36	15.45	16.04	15.96	16.55	17.04
	12H	14.80	15.31	15.30	15.81	16.37	15.43	15.95	15.94	16.45	17.01
12H	4H	14.46	15.17	14.94	15.65	16.12	15.43	16.14	15.91	16.62	17.09
	6H	14.70	15.29	15.22	15.80	16.29	15.45	16.04	15.96	16.55	17.04
	8H	14.77	15.29	15.28	15.78	16.35	15.45	15.97	15.96	16.46	17.02