

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: P1498999

Luminaire Tested: MAE-G-4-120-1LO-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498999
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-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

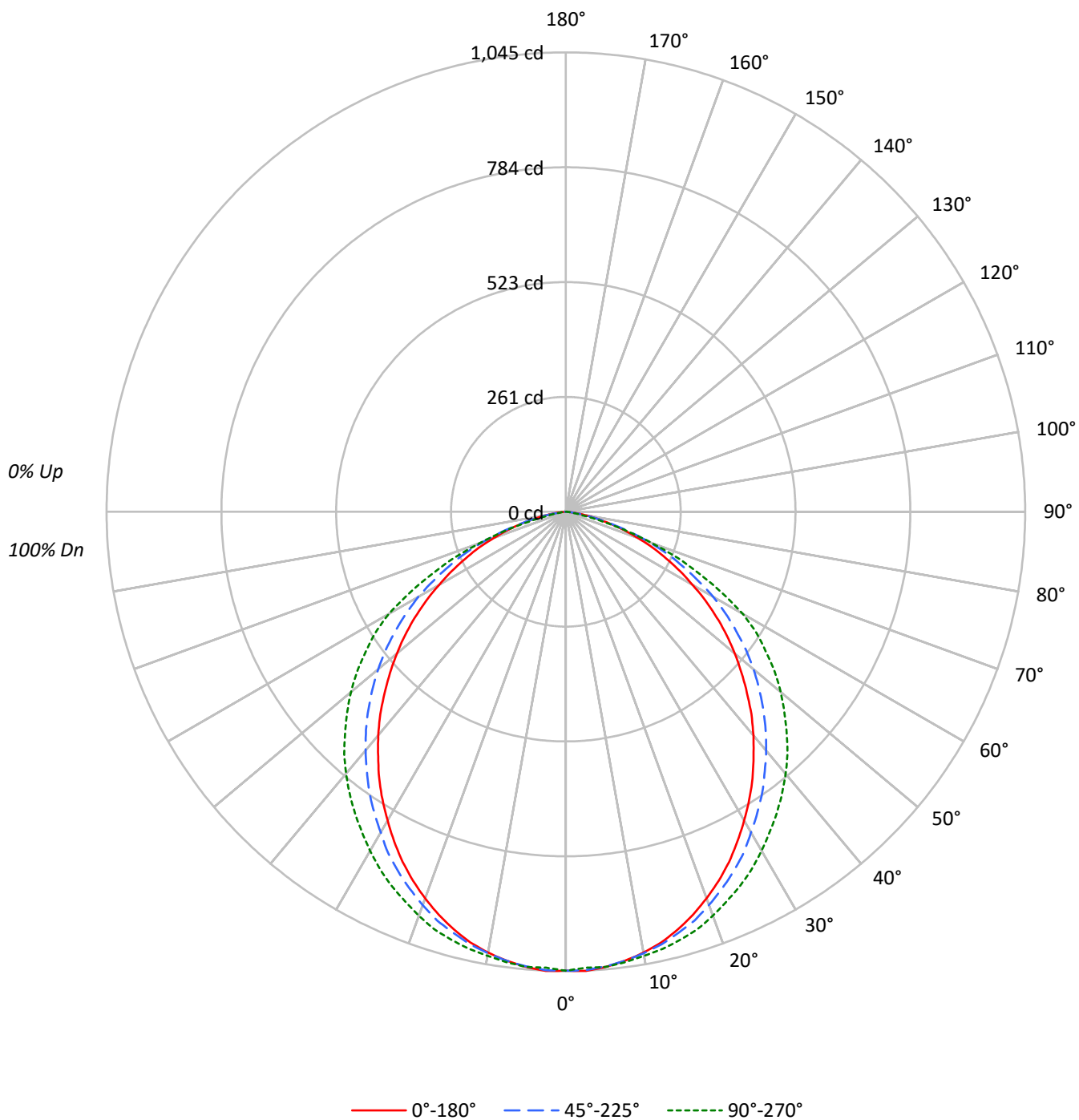
Lumens per Lamp: N/A
Luminaire Lumens: 2628.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1405	1405	1405
5°	1404	1402	1404
10°	1391	1393	1401
15°	1370	1381	1404
20°	1340	1363	1400
25°	1304	1340	1394
30°	1260	1309	1384
35°	1216	1280	1374
40°	1166	1245	1366
45°	1109	1209	1352
50°	1050	1166	1336
55°	983	1110	1304
60°	897	1043	1253
65°	803	933	1076
70°	685	786	821
75°	531	570	461
80°	349	303	163
85°	185	139	93

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1352 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	3.8
10°-20°	280.2	10.7
20°-30°	416.5	15.9
30°-40°	489.7	18.6
40°-50°	494.3	18.8
50°-60°	429.2	16.3
60°-70°	292.1	11.1
70°-80°	113.8	4.3
80°-90°	13.6	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°	795.3	30.3
0°-40°	1285.0	48.9
0°-60°	2208.5	84.0
0°-90°	2628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1044	1044	1044	1044	1044	
5°	1039	1038	1038	1038	1039	99
15°	984	985	991	1002	1008	277
25°	879	883	903	925	939	404
35°	740	750	780	816	837	462
45°	583	598	635	685	710	450
55°	419	433	473	527	556	374
65°	252	264	293	324	338	251
75°	102	108	110	99	89	111
85°	12	12	9	8	6	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1043.9	1043.9	1043.9	1043.9	1043.9
2.5°	1045.4	1045.4	1043.9	1039.4	1037.9
5°	1039.4	1037.9	1037.9	1037.9	1039.4
7.5°	1030.3	1030.3	1030.3	1031.8	1033.3
10°	1018.3	1018.3	1019.8	1022.8	1025.8
12.5°	1003.3	1004.8	1007.8	1013.8	1018.3
15°	983.8	985.3	991.3	1001.8	1007.8
17.5°	961.3	965.8	974.8	986.8	995.8
20°	935.7	940.2	952.2	967.3	977.8
22.5°	908.7	913.2	928.2	946.2	958.2
25°	878.6	883.2	902.7	925.2	938.7
27.5°	845.6	851.6	875.6	899.7	916.2
30°	811.1	818.6	842.6	872.6	890.7
32.5°	776.5	785.5	811.1	845.6	863.6
35°	740.5	749.5	779.5	815.6	836.6
37.5°	701.4	711.9	743.5	787.0	808.1
40°	663.9	674.4	708.9	755.5	778.0
42.5°	624.8	636.8	672.9	720.9	746.5
45°	582.8	597.8	635.3	684.9	710.4
47.5°	542.2	555.7	596.3	647.3	674.4
50°	501.7	516.7	557.2	609.8	638.3
52.5°	461.1	474.6	516.7	569.2	599.3
55°	419.0	432.6	473.1	527.2	555.7
57.5°	377.0	393.5	431.1	483.6	515.2
60°	333.4	348.5	387.5	440.1	465.6
62.5°	292.9	306.4	339.4	389.0	401.0
65°	252.3	264.3	292.9	324.4	337.9
67.5°	214.8	223.8	249.3	270.4	276.4
70°	174.2	183.2	199.8	211.8	208.8
72.5°	138.2	144.2	154.7	153.2	145.7
75°	102.1	108.1	109.6	99.1	88.6
77.5°	72.1	75.1	70.6	55.6	45.1
80°	45.1	46.6	39.1	24.0	21.0
82.5°	25.5	25.5	18.0	15.0	12.0
85°	12.0	12.0	9.0	7.5	6.0
87.5°	4.5	4.5	3.0	3.0	3.0
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	11.78	13.36	12.15	13.68	13.99	13.36	14.94	13.73	15.26	15.57
	3H	13.12	14.54	13.50	14.86	15.23	14.63	16.05	15.01	16.38	16.74
	4H	13.49	14.82	13.89	15.17	15.54	14.83	16.16	15.23	16.51	16.88
	6H	13.65	14.88	14.06	15.25	15.64	14.83	16.05	15.24	16.42	16.81
	8H	13.67	14.84	14.09	15.23	15.63	14.80	15.97	15.22	16.36	16.76
	12H	13.66	14.78	14.09	15.16	15.59	14.77	15.89	15.20	16.27	16.70
4H	2H	12.45	13.78	12.85	14.13	14.50	13.74	15.07	14.14	15.42	15.80
	3H	13.95	15.05	14.36	15.45	15.85	15.18	16.28	15.59	16.68	17.08
	4H	14.39	15.38	14.82	15.79	16.23	15.43	16.42	15.86	16.84	17.27
	6H	14.61	15.47	15.07	15.91	16.37	15.46	16.32	15.92	16.76	17.22
	8H	14.64	15.44	15.10	15.88	16.35	15.43	16.23	15.89	16.68	17.14
	12H	14.64	15.36	15.12	15.83	16.31	15.41	16.13	15.89	16.60	17.07
8H	4H	14.55	15.35	15.01	15.79	16.26	15.52	16.32	15.98	16.76	17.23
	6H	14.81	15.47	15.30	15.96	16.43	15.55	16.21	16.04	16.70	17.17
	8H	14.85	15.44	15.36	15.95	16.43	15.52	16.11	16.04	16.62	17.11
	12H	14.87	15.39	15.38	15.88	16.44	15.51	16.03	16.02	16.52	17.08
12H	4H	14.53	15.24	15.01	15.72	16.19	15.50	16.22	15.98	16.69	17.16
	6H	14.78	15.37	15.29	15.88	16.36	15.52	16.11	16.04	16.62	17.11
	8H	14.85	15.36	15.35	15.86	16.42	15.52	16.04	16.03	16.53	17.10