

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: P1498141

Luminaire Tested: MAE-G-2-120-1LO-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498141
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-2-120-1LO-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

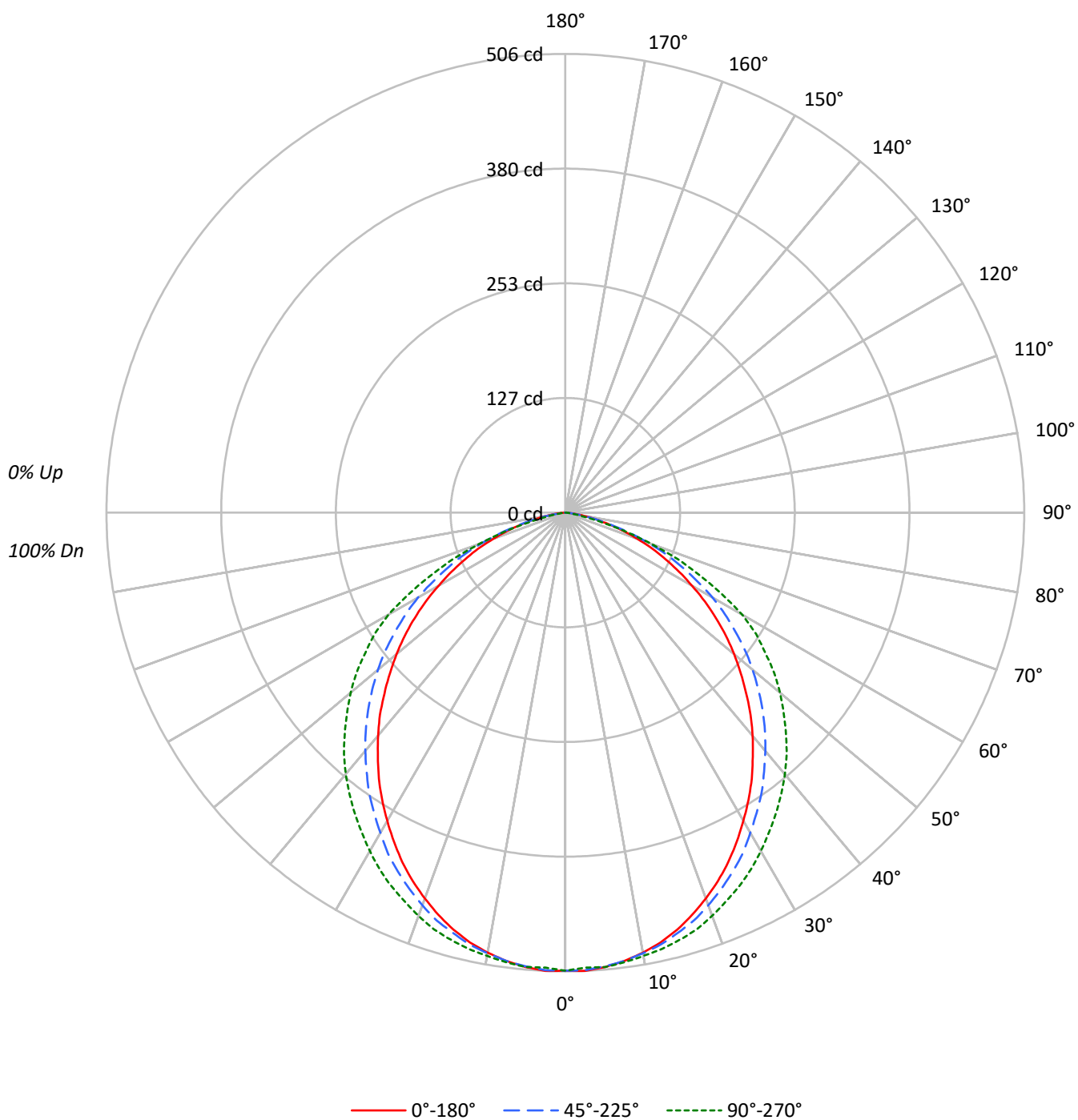
Lumens per Lamp: N/A
Luminaire Lumens: 1272.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 12.2
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

TEST NUMBER: P1498141

CATALOG NUMBER: MAE-G-2-120-1LO-50-VRDCPH

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°	1359	1359	1359
5°	1359	1357	1359
10°	1347	1349	1357
15°	1327	1337	1359
20°	1297	1320	1355
25°	1263	1297	1349
30°	1220	1267	1340
35°	1177	1239	1330
40°	1129	1205	1323
45°	1074	1170	1309
50°	1016	1129	1294
55°	951	1074	1262
60°	869	1010	1213
65°	777	903	1042
70°	663	761	795
75°	514	552	446
80°	338	293	158
85°	179	136	90

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1309 cd/sqm

TEST NUMBER: P1498141

CATALOG NUMBER: MAE-G-2-120-1LO-50-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.7	3.8
10°-20°	135.6	10.7
20°-30°	201.6	15.9
30°-40°	237.0	18.6
40°-50°	239.2	18.8
50°-60°	207.7	16.3
60°-70°	141.4	11.1
70°-80°	55.1	4.3
80°-90°	6.6	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°	384.9	30.3
0°-40°	622.0	48.9
0°-60°	1068.9	84.0
0°-90°	1272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	505	505	505	505	505	
5°	503	502	502	502	503	48
15°	476	477	480	485	488	134
25°	425	428	437	448	454	196
35°	358	363	377	395	405	224
45°	282	289	308	332	344	218
55°	203	209	229	255	269	181
65°	122	128	142	157	164	121
75°	49	52	53	48	43	54
85°	6	6	4	4	3	9
90°	0	0	0	0	0	

TEST NUMBER: P1498141

CATALOG NUMBER: MAE-G-2-120-1LO-50-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	505.2	505.2	505.2	505.2	505.2
2.5°	506.0	506.0	505.2	503.1	502.3
5°	503.1	502.3	502.3	502.3	503.1
7.5°	498.7	498.7	498.7	499.4	500.2
10°	492.9	492.9	493.6	495.1	496.5
12.5°	485.6	486.3	487.8	490.7	492.9
15°	476.2	476.9	479.8	484.9	487.8
17.5°	465.3	467.4	471.8	477.6	482.0
20°	452.9	455.1	460.9	468.2	473.3
22.5°	439.8	442.0	449.3	458.0	463.8
25°	425.3	427.5	436.9	447.8	454.4
27.5°	409.3	412.2	423.8	435.5	443.5
30°	392.6	396.2	407.8	422.4	431.1
32.5°	375.8	380.2	392.6	409.3	418.0
35°	358.4	362.8	377.3	394.7	404.9
37.5°	339.5	344.6	359.9	380.9	391.1
40°	321.3	326.4	343.1	365.7	376.6
42.5°	302.4	308.2	325.7	348.9	361.3
45°	282.1	289.3	307.5	331.5	343.9
47.5°	262.4	269.0	288.6	313.3	326.4
50°	242.8	250.1	269.7	295.2	309.0
52.5°	223.2	229.7	250.1	275.5	290.1
55°	202.8	209.4	229.0	255.2	269.0
57.5°	182.5	190.5	208.6	234.1	249.4
60°	161.4	168.7	187.6	213.0	225.4
62.5°	141.8	148.3	164.3	188.3	194.1
65°	122.1	127.9	141.8	157.0	163.6
67.5°	104.0	108.3	120.7	130.9	133.8
70°	84.3	88.7	96.7	102.5	101.0
72.5°	66.9	69.8	74.9	74.2	70.5
75°	49.4	52.3	53.1	48.0	42.9
77.5°	34.9	36.3	34.2	26.9	21.8
80°	21.8	22.5	18.9	11.6	10.2
82.5°	12.4	12.4	8.7	7.3	5.8
85°	5.8	5.8	4.4	3.6	2.9
87.5°	2.2	2.2	1.5	1.5	1.5
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	11.67	13.25	12.04	13.57	13.88	13.25	14.83	13.62	15.14	15.46
	3H	13.01	14.43	13.39	14.75	15.11	14.52	15.94	14.90	16.26	16.63
	4H	13.38	14.70	13.77	15.05	15.43	14.72	16.05	15.11	16.39	16.77
	6H	13.54	14.77	13.95	15.13	15.52	14.71	15.94	15.12	16.31	16.70
	8H	13.55	14.72	13.98	15.11	15.51	14.69	15.86	15.11	16.25	16.65
	12H	13.55	14.67	13.98	15.05	15.48	14.66	15.78	15.09	16.16	16.59
4H	2H	12.34	13.67	12.74	14.02	14.39	13.63	14.96	14.03	15.31	15.68
	3H	13.83	14.94	14.24	15.33	15.74	15.07	16.17	15.48	16.57	16.97
	4H	14.28	15.27	14.71	15.68	16.12	15.32	16.31	15.75	16.72	17.16
	6H	14.50	15.36	14.96	15.80	16.26	15.35	16.21	15.80	16.65	17.11
	8H	14.53	15.33	14.99	15.77	16.24	15.32	16.12	15.78	16.56	17.03
	12H	14.53	15.24	15.01	15.72	16.19	15.30	16.01	15.78	16.49	16.96
8H	4H	14.43	15.24	14.90	15.68	16.15	15.40	16.20	15.87	16.65	17.11
	6H	14.69	15.35	15.19	15.84	16.32	15.44	16.10	15.93	16.59	17.06
	8H	14.74	15.32	15.25	15.83	16.32	15.41	16.00	15.92	16.51	17.00
	12H	14.76	15.28	15.27	15.77	16.33	15.40	15.91	15.90	16.41	16.97
12H	4H	14.42	15.13	14.90	15.61	16.08	15.39	16.10	15.87	16.58	17.05
	6H	14.66	15.25	15.18	15.76	16.25	15.41	16.00	15.92	16.51	17.00
	8H	14.73	15.25	15.24	15.74	16.31	15.41	15.93	15.92	16.42	16.98