

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: P1498120

Luminaire Tested: MAE-G-2-120-1LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498120
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-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

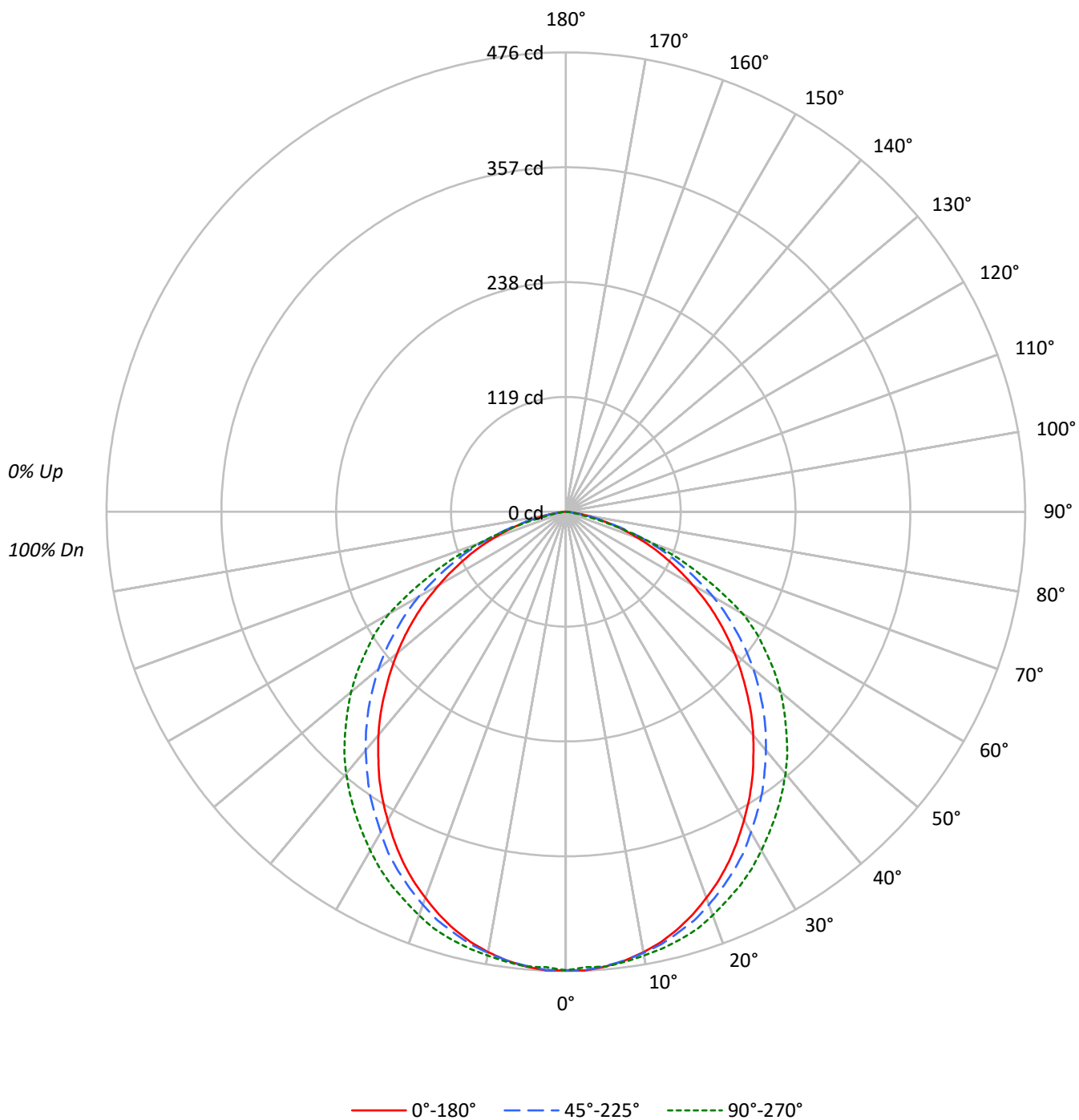
Lumens per Lamp: N/A
Luminaire Lumens: 1196.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P1498120

CATALOG NUMBER: MAE-G-2-120-1LO-30-90-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°	1278	1278	1278
5°	1278	1276	1278
10°	1266	1268	1276
15°	1247	1257	1278
20°	1219	1241	1274
25°	1187	1220	1268
30°	1147	1192	1259
35°	1107	1166	1251
40°	1061	1133	1244
45°	1009	1100	1230
50°	956	1062	1216
55°	895	1010	1187
60°	816	949	1140
65°	731	849	979
70°	624	715	747
75°	483	519	419
80°	318	276	149
85°	170	127	83

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1230 cd/sqm

TEST NUMBER: P1498120

CATALOG NUMBER: MAE-G-2-120-1LO-30-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.9	3.8
10°-20°	127.5	10.7
20°-30°	189.6	15.9
30°-40°	222.9	18.6
40°-50°	224.9	18.8
50°-60°	195.3	16.3
60°-70°	132.9	11.1
70°-80°	51.8	4.3
80°-90°	6.2	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°	361.9	30.3
0°-40°	584.8	48.9
0°-60°	1005.1	84.0
0°-90°	1196.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	475	475	475	475	475	
5°	473	472	472	472	473	45
15°	448	448	451	456	459	126
25°	400	402	411	421	427	184
35°	337	341	355	371	381	210
45°	265	272	289	312	323	205
55°	191	197	215	240	253	170
65°	115	120	133	148	154	114
75°	46	49	50	45	40	51
85°	6	6	4	3	3	8
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-1LO-30-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	475.1	475.1	475.1	475.1	475.1
2.5°	475.7	475.7	475.1	473.0	472.3
5°	473.0	472.3	472.3	472.3	473.0
7.5°	468.9	468.9	468.9	469.6	470.3
10°	463.4	463.4	464.1	465.5	466.9
12.5°	456.6	457.3	458.7	461.4	463.4
15°	447.7	448.4	451.1	455.9	458.7
17.5°	437.5	439.5	443.6	449.1	453.2
20°	425.8	427.9	433.4	440.2	445.0
22.5°	413.5	415.6	422.4	430.6	436.1
25°	399.9	401.9	410.8	421.1	427.2
27.5°	384.8	387.6	398.5	409.4	417.0
30°	369.1	372.5	383.5	397.1	405.3
32.5°	353.4	357.5	369.1	384.8	393.0
35°	337.0	341.1	354.8	371.2	380.7
37.5°	319.2	324.0	338.4	358.2	367.7
40°	302.1	306.9	322.6	343.8	354.1
42.5°	284.4	289.8	306.2	328.1	339.7
45°	265.2	272.0	289.1	311.7	323.3
47.5°	246.8	252.9	271.4	294.6	306.9
50°	228.3	235.1	253.6	277.5	290.5
52.5°	209.8	216.0	235.1	259.1	272.7
55°	190.7	196.9	215.3	239.9	252.9
57.5°	171.6	179.1	196.2	220.1	234.5
60°	151.7	158.6	176.4	200.3	211.9
62.5°	133.3	139.4	154.5	177.0	182.5
65°	114.8	120.3	133.3	147.6	153.8
67.5°	97.7	101.8	113.5	123.0	125.8
70°	79.3	83.4	90.9	96.4	95.0
72.5°	62.9	65.6	70.4	69.7	66.3
75°	46.5	49.2	49.9	45.1	40.3
77.5°	32.8	34.2	32.1	25.3	20.5
80°	20.5	21.2	17.8	10.9	9.6
82.5°	11.6	11.6	8.2	6.8	5.5
85°	5.5	5.5	4.1	3.4	2.7
87.5°	2.1	2.1	1.4	1.4	1.4
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	11.46	13.04	11.82	13.35	13.67	13.04	14.62	13.40	14.93	15.24
	3H	12.79	14.21	13.17	14.54	14.90	14.31	15.72	14.68	16.05	16.41
	4H	13.16	14.49	13.56	14.84	15.22	14.50	15.83	14.90	16.18	16.56
	6H	13.32	14.55	13.74	14.92	15.31	14.50	15.73	14.91	16.09	16.48
	8H	13.34	14.51	13.76	14.90	15.30	14.47	15.64	14.90	16.03	16.43
	12H	13.33	14.45	13.76	14.83	15.26	14.45	15.57	14.88	15.95	16.38
4H	2H	12.12	13.45	12.52	13.80	14.18	13.41	14.74	13.81	15.09	15.47
	3H	13.62	14.72	14.03	15.12	15.52	14.85	15.95	15.26	16.35	16.75
	4H	14.06	15.05	14.49	15.47	15.90	15.10	16.09	15.54	16.51	16.95
	6H	14.29	15.15	14.74	15.59	16.05	15.13	15.99	15.59	16.43	16.89
	8H	14.31	15.11	14.77	15.56	16.02	15.10	15.91	15.57	16.35	16.82
	12H	14.32	15.03	14.80	15.51	15.98	15.08	15.80	15.56	16.28	16.75
8H	4H	14.22	15.02	14.68	15.46	15.93	15.19	15.99	15.65	16.43	16.90
	6H	14.48	15.14	14.98	15.63	16.11	15.22	15.88	15.72	16.37	16.85
	8H	14.52	15.11	15.03	15.62	16.11	15.20	15.79	15.71	16.29	16.78
	12H	14.54	15.06	15.05	15.55	16.12	15.18	15.70	15.69	16.19	16.76
12H	4H	14.20	14.92	14.68	15.39	15.86	15.17	15.89	15.66	16.37	16.84
	6H	14.45	15.04	14.96	15.55	16.04	15.20	15.79	15.71	16.29	16.78
	8H	14.52	15.04	15.03	15.53	16.09	15.19	15.71	15.70	16.20	16.77

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

7 of 7