

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: P1498129

Luminaire Tested: MAE-G-2-120-1LO-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498129
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-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

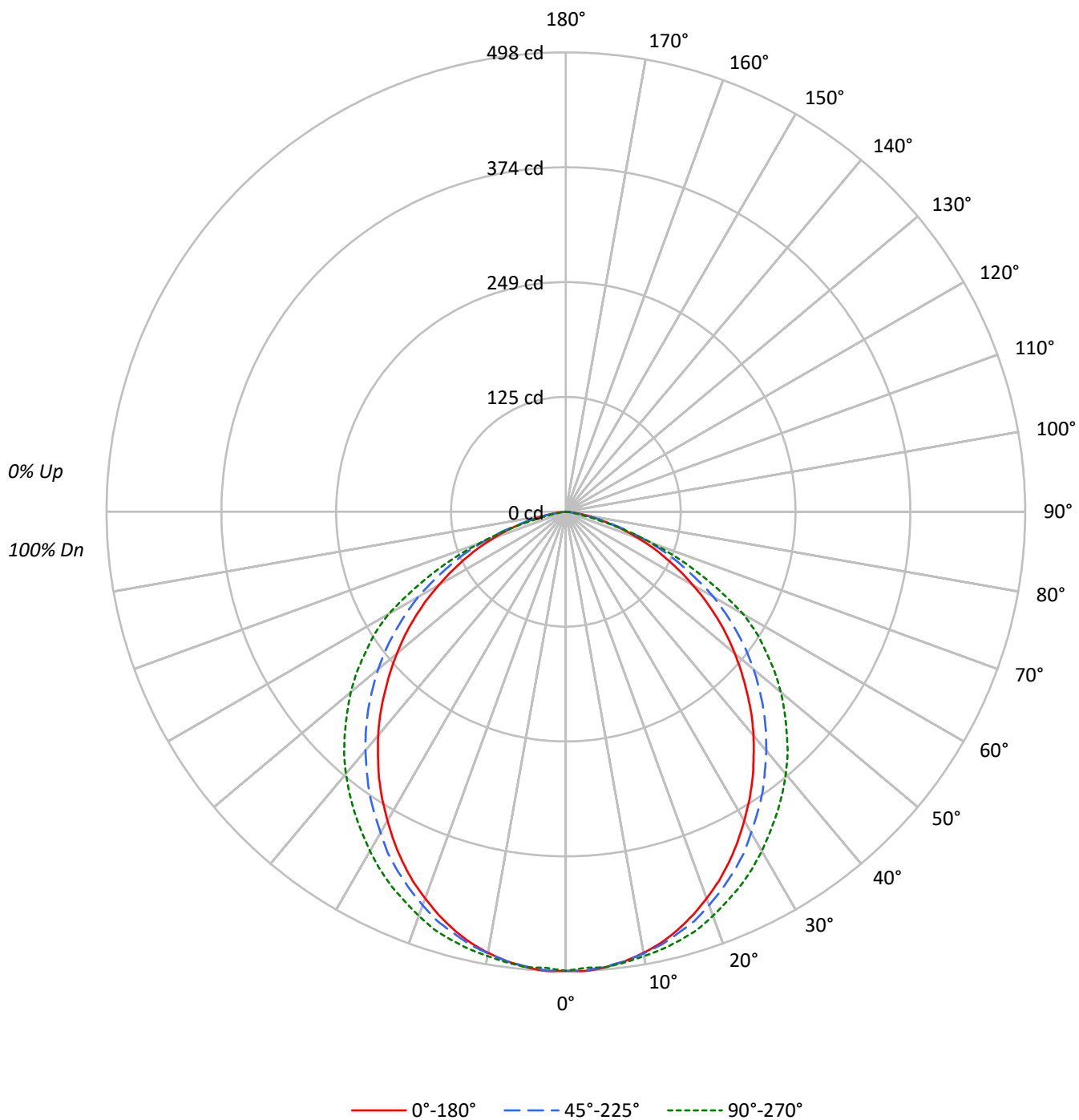
Lumens per Lamp: N/A
Luminaire Lumens: 1253.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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: P1498129

CATALOG NUMBER: MAE-G-2-120-1LO-35-VRDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1498129

CATALOG NUMBER: MAE-G-2-120-1LO-35-VRDCPH

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°	1339	1339	1339
5°	1339	1337	1339
10°	1327	1329	1336
15°	1307	1317	1339
20°	1277	1300	1335
25°	1244	1278	1329
30°	1202	1248	1320
35°	1160	1221	1310
40°	1112	1187	1303
45°	1058	1153	1289
50°	1001	1112	1274
55°	937	1058	1243
60°	856	995	1195
65°	766	889	1026
70°	654	749	783
75°	506	544	440
80°	333	288	155
85°	176	133	90

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1289 cd/sqm

TEST NUMBER: P1498129

CATALOG NUMBER: MAE-G-2-120-1LO-35-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.0	3.8
10°-20°	133.6	10.7
20°-30°	198.6	15.9
30°-40°	233.5	18.6
40°-50°	235.7	18.8
50°-60°	204.6	16.3
60°-70°	139.3	11.1
70°-80°	54.3	4.3
80°-90°	6.5	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°	379.2	30.3
0°-40°	612.7	48.9
0°-60°	1053.0	84.0
0°-90°	1253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	498	498	498	498	498	
5°	496	495	495	495	496	47
15°	469	470	473	478	480	132
25°	419	421	430	441	448	193
35°	353	357	372	389	399	220
45°	278	285	303	326	339	215
55°	200	206	226	251	265	178
65°	120	126	140	155	161	119
75°	49	52	52	47	42	53
85°	6	6	4	4	3	8
90°	0	0	0	0	0	

TEST NUMBER: P1498129

CATALOG NUMBER: MAE-G-2-120-1LO-35-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	497.7	497.7	497.7	497.7	497.7
2.5°	498.4	498.4	497.7	495.6	494.8
5°	495.6	494.8	494.8	494.8	495.6
7.5°	491.3	491.3	491.3	492.0	492.7
10°	485.5	485.5	486.2	487.7	489.1
12.5°	478.4	479.1	480.5	483.4	485.5
15°	469.1	469.8	472.6	477.6	480.5
17.5°	458.3	460.5	464.8	470.5	474.8
20°	446.1	448.3	454.0	461.2	466.2
22.5°	433.3	435.4	442.6	451.2	456.9
25°	418.9	421.1	430.4	441.1	447.6
27.5°	403.2	406.0	417.5	429.0	436.8
30°	386.7	390.3	401.7	416.1	424.7
32.5°	370.2	374.5	386.7	403.2	411.8
35°	353.0	357.3	371.7	388.9	398.9
37.5°	334.4	339.4	354.5	375.2	385.3
40°	316.5	321.5	338.0	360.2	370.9
42.5°	297.9	303.6	320.8	343.7	355.9
45°	277.9	285.0	302.9	326.5	338.7
47.5°	258.5	265.0	284.3	308.6	321.5
50°	239.2	246.3	265.7	290.7	304.3
52.5°	219.8	226.3	246.3	271.4	285.7
55°	199.8	206.2	225.6	251.4	265.0
57.5°	179.7	187.6	205.5	230.6	245.6
60°	159.0	166.1	184.8	209.8	222.0
62.5°	139.6	146.1	161.8	185.5	191.2
65°	120.3	126.0	139.6	154.7	161.1
67.5°	102.4	106.7	118.9	128.9	131.8
70°	83.1	87.4	95.2	101.0	99.5
72.5°	65.9	68.7	73.8	73.0	69.5
75°	48.7	51.6	52.3	47.3	42.3
77.5°	34.4	35.8	33.7	26.5	21.5
80°	21.5	22.2	18.6	11.5	10.0
82.5°	12.2	12.2	8.6	7.2	5.7
85°	5.7	5.7	4.3	3.6	2.9
87.5°	2.1	2.1	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498129

CATALOG NUMBER: MAE-G-2-120-1LO-35-VRDCPH

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	11.62	13.20	11.98	13.51	13.83	13.20	14.78	13.56	15.09	15.41
	3H	12.95	14.37	13.33	14.70	15.06	14.47	15.88	14.84	16.21	16.57
	4H	13.32	14.65	13.72	15.00	15.38	14.66	15.99	15.06	16.34	16.72
	6H	13.49	14.71	13.90	15.08	15.47	14.66	15.89	15.07	16.25	16.65
	8H	13.50	14.67	13.93	15.06	15.46	14.63	15.80	15.06	16.19	16.59
	12H	13.49	14.61	13.92	15.00	15.42	14.61	15.73	15.04	16.11	16.54
4H	2H	12.28	13.61	12.68	13.96	14.34	13.58	14.90	13.97	15.25	15.63
	3H	13.78	14.88	14.19	15.28	15.68	15.01	16.12	15.42	16.51	16.91
	4H	14.22	15.21	14.66	15.63	16.07	15.27	16.26	15.70	16.67	17.11
	6H	14.45	15.31	14.91	15.75	16.21	15.29	16.15	15.75	16.59	17.05
	8H	14.47	15.27	14.94	15.72	16.18	15.27	16.07	15.73	16.51	16.98
	12H	14.48	15.19	14.96	15.67	16.14	15.25	15.96	15.73	16.44	16.91
8H	4H	14.38	15.18	14.84	15.63	16.09	15.35	16.15	15.81	16.60	17.06
	6H	14.64	15.30	15.14	15.79	16.27	15.38	16.04	15.88	16.53	17.01
	8H	14.68	15.27	15.20	15.78	16.27	15.36	15.95	15.87	16.46	16.94
	12H	14.70	15.22	15.21	15.71	16.28	15.34	15.86	15.85	16.35	16.92
12H	4H	14.36	15.08	14.84	15.56	16.03	15.34	16.05	15.82	16.53	17.00
	6H	14.61	15.20	15.13	15.71	16.20	15.36	15.95	15.87	16.46	16.94
	8H	14.68	15.20	15.19	15.69	16.26	15.36	15.87	15.87	16.37	16.93