

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: P1498408

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

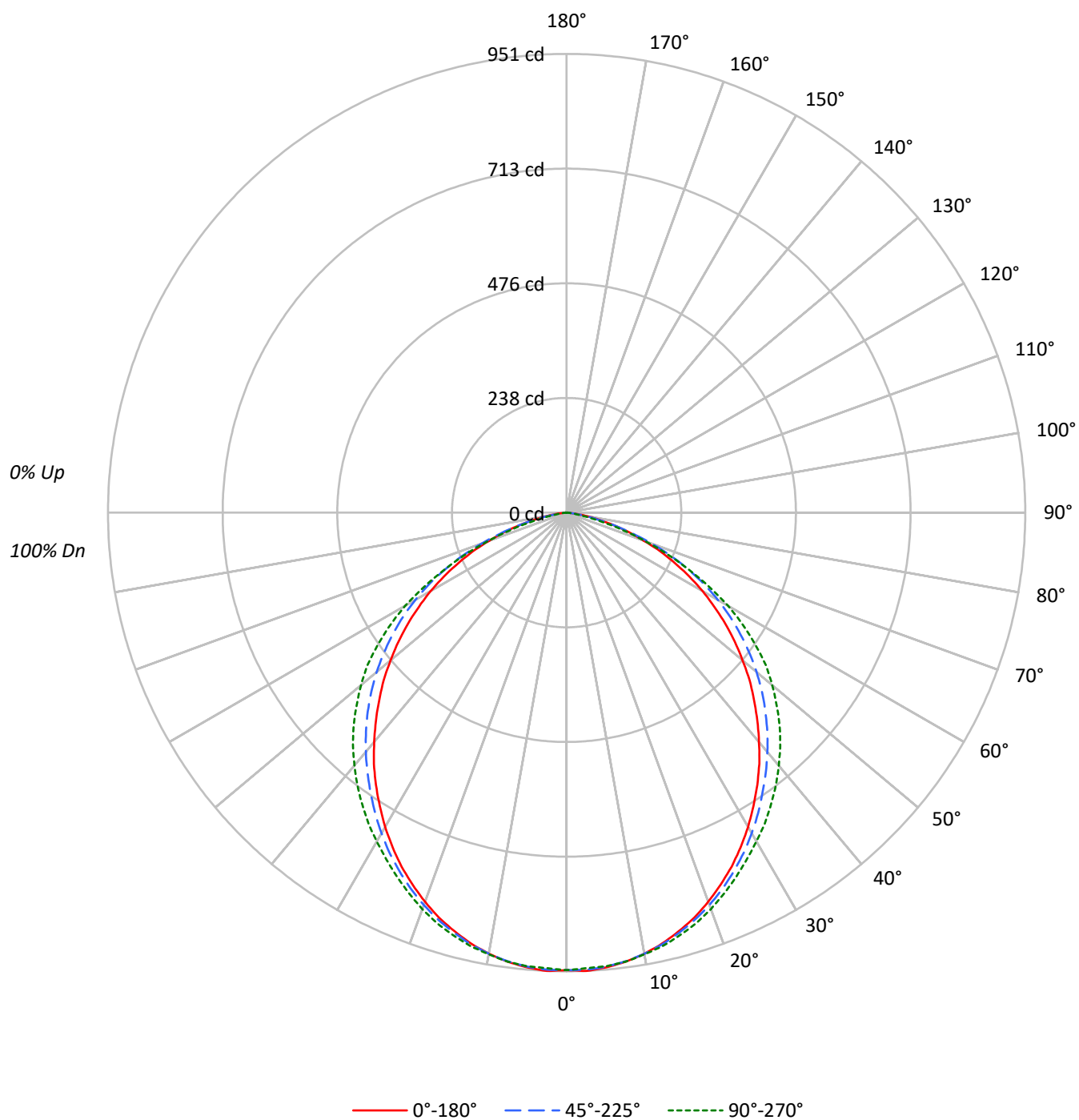
Lumens per Lamp: N/A
Luminaire Lumens: 2394.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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: P1498408

CATALOG NUMBER: MAE-G-2-120-2LO-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	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	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		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2552	2552	2552
5°	2557	2552	2550
10°	2537	2537	2540
15°	2503	2512	2527
20°	2459	2479	2505
25°	2404	2436	2472
30°	2338	2385	2446
35°	2264	2327	2427
40°	2180	2275	2404
45°	2091	2218	2377
50°	1994	2152	2330
55°	1884	2065	2242
60°	1751	1950	2082
65°	1579	1771	1782
70°	1348	1474	1378
75°	1058	1068	861
80°	688	549	330
85°	318	210	170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2377 cd/sqm

TEST NUMBER: P1498408

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	3.7
10°-20°	254.1	10.6
20°-30°	377.4	15.8
30°-40°	444.5	18.6
40°-50°	450.4	18.8
50°-60°	392.0	16.4
60°-70°	267.1	11.2
70°-80°	106.8	4.5
80°-90°	12.2	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°	721.0	30.1
0°-40°	1165.6	48.7
0°-60°	2007.9	83.9
0°-90°	2394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	946	941	945	944	944	90
15°	898	895	902	905	907	253
25°	810	810	820	827	832	373
35°	689	692	708	727	739	431
45°	549	556	583	610	625	424
55°	402	410	440	468	478	359
65°	248	260	278	279	280	246
75°	102	108	103	88	83	110
85°	10	9	7	6	6	16
90°	0	0	0	0	0	

TEST NUMBER: P1498408

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	948.4	948.4	948.4	948.4	948.4
2.5°	951.0	944.9	948.4	947.7	945.2
5°	946.5	941.0	944.9	943.6	943.9
7.5°	939.1	933.9	938.1	937.8	938.8
10°	928.5	923.3	928.5	928.7	929.7
12.5°	915.2	910.7	916.8	918.1	920.4
15°	898.5	894.6	901.7	905.0	907.2
17.5°	880.5	877.9	885.0	889.2	892.7
20°	858.6	857.3	865.7	869.8	874.6
22.5°	834.7	834.1	844.1	849.2	854.1
25°	809.6	809.9	820.3	827.0	832.5
27.5°	781.9	782.5	795.1	803.2	809.9
30°	752.3	753.9	767.7	778.7	787.1
32.5°	721.0	724.0	738.8	753.9	764.5
35°	689.1	692.4	708.5	727.2	738.8
37.5°	656.3	659.9	678.5	700.5	712.7
40°	620.6	626.0	647.7	671.8	684.3
42.5°	585.4	591.6	615.8	642.2	655.7
45°	549.4	556.2	582.9	610.3	624.7
47.5°	514.6	520.4	549.1	577.8	590.6
50°	476.3	484.0	514.0	542.7	556.5
52.5°	439.6	447.0	477.6	506.9	521.1
55°	401.6	410.3	440.2	467.9	477.9
57.5°	363.3	373.3	402.2	425.1	433.8
60°	325.3	335.3	362.3	380.3	386.8
62.5°	286.9	297.2	321.1	332.0	333.3
65°	248.0	259.6	278.2	278.6	279.9
67.5°	211.0	220.6	234.1	230.3	228.3
70°	171.3	181.9	187.4	179.7	175.2
72.5°	136.2	143.9	143.0	131.7	126.3
75°	101.8	107.9	102.7	88.3	82.8
77.5°	70.5	75.7	65.3	51.8	46.4
80°	44.4	46.7	35.4	25.1	21.3
82.5°	23.8	23.5	15.2	12.5	11.6
85°	10.3	9.3	6.8	6.1	5.5
87.5°	3.6	3.2	2.6	2.3	1.9
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	14.17	15.75	14.54	16.07	16.38	15.13	16.71	15.50	17.03	17.34
	3H	15.59	17.01	15.97	17.34	17.70	16.32	17.74	16.70	18.07	18.43
	4H	15.99	17.32	16.39	17.67	18.04	16.54	17.87	16.94	18.22	18.60
	6H	16.16	17.39	16.57	17.76	18.15	16.56	17.79	16.97	18.15	18.54
	8H	16.17	17.35	16.60	17.73	18.13	16.53	17.70	16.96	18.09	18.49
	12H	16.16	17.29	16.59	17.67	18.10	16.51	17.63	16.94	18.01	18.44
4H	2H	14.83	16.17	15.23	16.51	16.89	15.61	16.94	16.01	17.29	17.66
	3H	16.41	17.51	16.82	17.91	18.31	16.96	18.06	17.37	18.46	18.86
	4H	16.89	17.88	17.32	18.29	18.73	17.22	18.22	17.66	18.63	19.07
	6H	17.13	17.99	17.58	18.43	18.89	17.28	18.14	17.73	18.58	19.04
	8H	17.15	17.95	17.61	18.40	18.86	17.25	18.05	17.71	18.50	18.96
	12H	17.15	17.86	17.63	18.34	18.81	17.23	17.95	17.71	18.42	18.90
8H	4H	17.02	17.83	17.48	18.27	18.74	17.34	18.14	17.80	18.59	19.05
	6H	17.30	17.96	17.79	18.45	18.93	17.40	18.06	17.89	18.55	19.03
	8H	17.34	17.93	17.85	18.44	18.92	17.37	17.97	17.89	18.47	18.96
	12H	17.35	17.87	17.86	18.36	18.92	17.36	17.88	17.87	18.37	18.94
12H	4H	17.00	17.72	17.49	18.20	18.67	17.33	18.05	17.81	18.52	18.99
	6H	17.27	17.86	17.78	18.37	18.86	17.37	17.97	17.89	18.48	18.96
	8H	17.33	17.85	17.84	18.34	18.91	17.37	17.90	17.88	18.39	18.95