

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: P1498666

Luminaire Tested: MAE-G-2-120-3HI-LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-LO-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

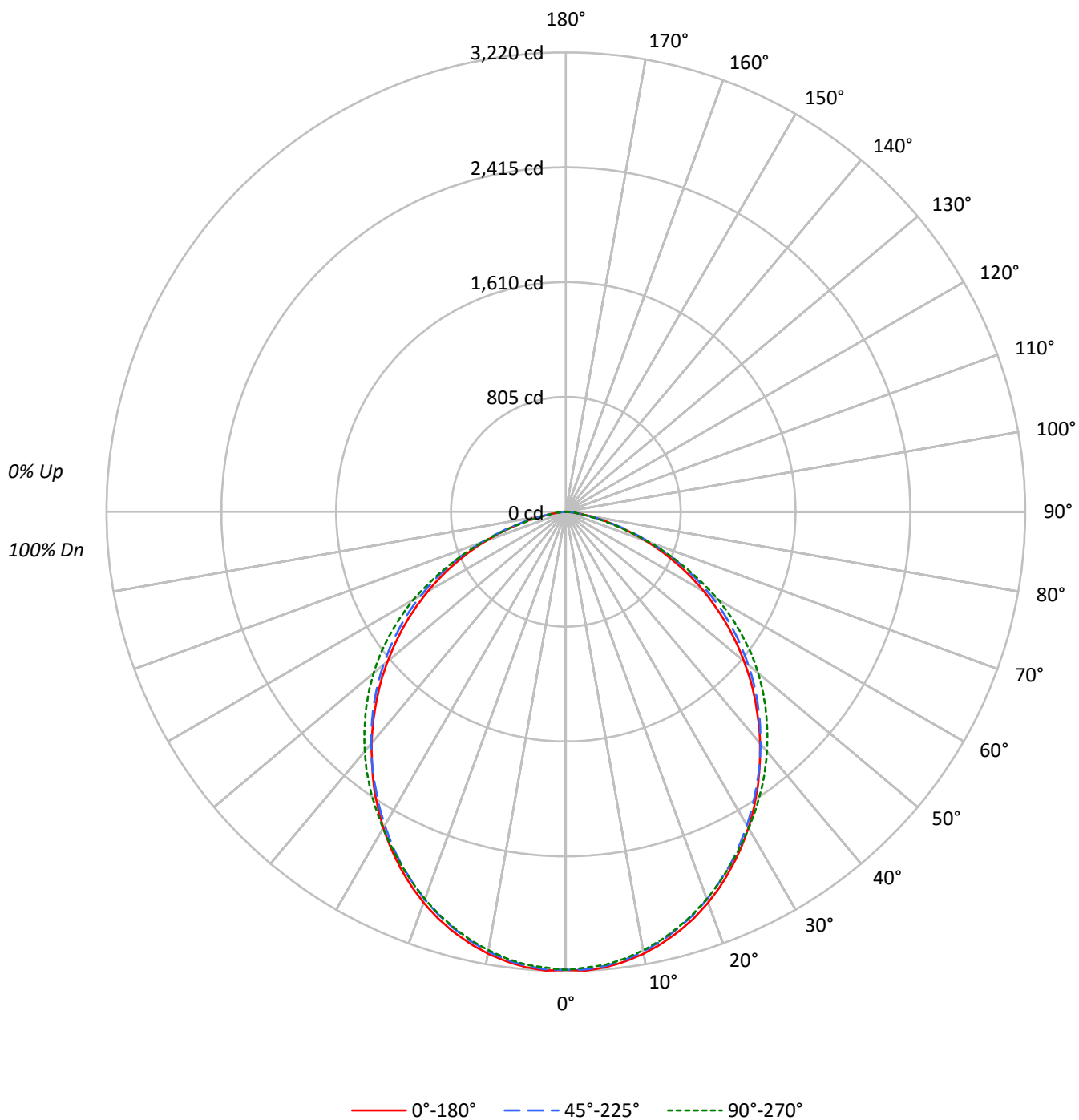
Lumens per Lamp: N/A
Luminaire Lumens: 7966.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 92.3
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	93	90		91	89	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8641	8641	8641
5°	8657	8632	8610
10°	8596	8553	8528
15°	8491	8430	8415
20°	8349	8280	8271
25°	8163	8097	8110
30°	7951	7887	7961
35°	7710	7669	7838
40°	7439	7458	7703
45°	7145	7239	7550
50°	6824	6987	7365
55°	6464	6692	7068
60°	6014	6307	6643
65°	5455	5770	5869
70°	4687	4965	4840
75°	3712	3852	3447
80°	2478	2382	2035
85°	1254	1371	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7550 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.6	3.8
10°-20°	852.6	10.7
20°-30°	1256.6	15.8
30°-40°	1467.9	18.4
40°-50°	1475.9	18.5
50°-60°	1278.5	16.0
60°-70°	885.3	11.1
70°-80°	385.7	4.8
80°-90°	61.1	0.8
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°	2411.8	30.3
0°-40°	3879.7	48.7
0°-60°	6634.0	83.3
0°-90°	7966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3211	3211	3211	3211	3211	
5°	3205	3190	3196	3184	3188	304
15°	3048	3030	3026	3014	3020	859
25°	2749	2732	2727	2717	2732	1266
35°	2347	2328	2334	2358	2386	1466
45°	1877	1869	1902	1954	1984	1449
55°	1378	1374	1426	1486	1507	1230
65°	857	865	906	920	922	847
75°	357	366	370	346	332	384
85°	41	42	44	49	51	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3211.0	3211.0	3211.0	3211.0	3211.0
2.5°	3219.7	3204.1	3211.0	3202.0	3198.2
5°	3204.9	3189.7	3195.6	3183.8	3187.5
7.5°	3179.9	3164.5	3167.9	3155.9	3159.8
10°	3145.8	3128.5	3130.2	3117.6	3121.0
12.5°	3100.6	3083.7	3083.2	3069.5	3075.6
15°	3047.7	3029.8	3026.1	3014.5	3020.4
17.5°	2986.1	2967.5	2963.5	2949.1	2958.4
20°	2915.4	2896.4	2891.4	2875.8	2888.4
22.5°	2836.4	2817.5	2810.8	2798.8	2812.2
25°	2749.4	2731.6	2727.1	2717.4	2731.5
27.5°	2657.8	2638.3	2635.3	2632.0	2647.4
30°	2558.8	2539.4	2538.1	2540.8	2562.0
32.5°	2454.1	2436.1	2437.9	2451.1	2475.2
35°	2347.0	2328.4	2334.5	2358.0	2385.8
37.5°	2231.6	2218.3	2230.2	2263.9	2292.3
40°	2117.7	2103.4	2123.0	2163.3	2192.8
42.5°	1999.8	1988.9	2013.9	2062.1	2090.0
45°	1877.4	1868.9	1902.2	1953.5	1984.0
47.5°	1758.1	1748.3	1787.7	1842.7	1874.9
50°	1630.0	1624.8	1669.0	1728.8	1759.3
52.5°	1504.2	1498.9	1548.6	1610.8	1639.4
55°	1377.7	1374.4	1426.4	1486.1	1506.6
57.5°	1247.2	1250.4	1302.1	1353.4	1374.0
60°	1117.5	1121.5	1171.9	1217.2	1234.4
62.5°	987.8	994.7	1040.7	1074.8	1078.6
65°	856.7	865.1	906.2	920.2	921.7
67.5°	724.5	735.6	770.1	772.6	769.8
70°	595.7	604.3	631.0	625.8	615.1
72.5°	470.6	481.4	494.5	481.9	466.6
75°	357.0	365.6	370.5	346.5	331.5
77.5°	251.2	256.7	253.5	228.2	217.6
80°	159.9	165.2	153.7	138.5	131.3
82.5°	88.6	92.5	82.7	85.3	86.8
85°	40.6	41.8	44.4	49.4	51.2
87.5°	13.8	15.5	17.9	18.8	17.3
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	18.42	20.01	18.79	20.32	20.63	19.00	20.58	19.36	20.89	21.21
	3H	19.86	21.28	20.24	21.61	21.97	20.34	21.77	20.72	22.10	22.46
	4H	20.27	21.61	20.67	21.96	22.33	20.67	22.00	21.06	22.35	22.73
	6H	20.46	21.70	20.88	22.06	22.46	20.77	22.01	21.19	22.37	22.77
	8H	20.49	21.66	20.91	22.05	22.45	20.78	21.96	21.21	22.35	22.75
	12H	20.48	21.61	20.91	21.99	22.42	20.78	21.91	21.21	22.29	22.72
4H	2H	19.03	20.37	19.43	20.72	21.09	19.50	20.83	19.89	21.18	21.56
	3H	20.64	21.75	21.05	22.15	22.55	21.02	22.13	21.43	22.53	22.93
	4H	21.13	22.13	21.57	22.55	22.98	21.42	22.42	21.85	22.83	23.27
	6H	21.40	22.27	21.86	22.71	23.17	21.59	22.45	22.04	22.90	23.35
	8H	21.43	22.24	21.90	22.69	23.15	21.61	22.42	22.07	22.86	23.32
	12H	21.44	22.17	21.92	22.64	23.11	21.62	22.34	22.10	22.82	23.29
8H	4H	21.31	22.12	21.77	22.56	23.03	21.57	22.38	22.03	22.82	23.29
	6H	21.62	22.29	22.11	22.78	23.25	21.77	22.44	22.27	22.93	23.40
	8H	21.68	22.27	22.19	22.78	23.27	21.81	22.40	22.32	22.91	23.40
	12H	21.70	22.23	22.21	22.72	23.28	21.84	22.37	22.35	22.86	23.42
12H	4H	21.30	22.02	21.78	22.50	22.97	21.56	22.29	22.04	22.76	23.23
	6H	21.60	22.20	22.12	22.71	23.20	21.76	22.36	22.27	22.86	23.35
	8H	21.69	22.22	22.20	22.71	23.27	21.82	22.35	22.33	22.84	23.41