

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: P1499386

Luminaire Tested: MAE-G-4-120-2STD-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499386
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-4-120-2STD-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

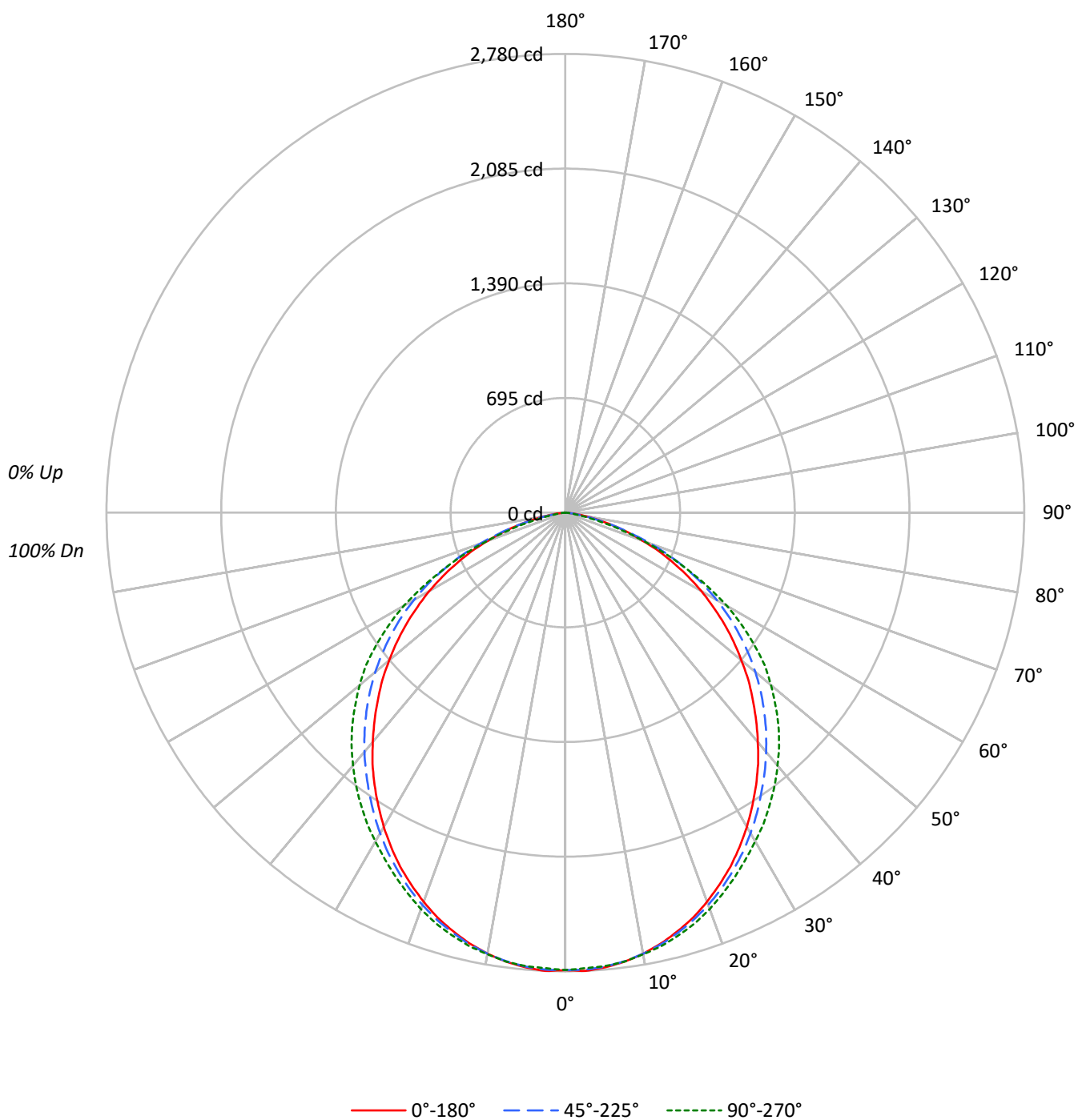
Lumens per Lamp: N/A
Luminaire Lumens: 6998.0 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
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
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°	3730	3730	3730
5°	3737	3731	3727
10°	3708	3708	3713
15°	3658	3672	3694
20°	3593	3623	3661
25°	3513	3560	3613
30°	3416	3487	3575
35°	3309	3402	3547
40°	3186	3325	3513
45°	3056	3242	3475
50°	2915	3145	3405
55°	2754	3019	3277
60°	2559	2850	3042
65°	2308	2589	2605
70°	1970	2155	2014
75°	1547	1561	1258
80°	1006	803	482
85°	466	306	247

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3475 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	3.7
10°-20°	742.6	10.6
20°-30°	1103.2	15.8
30°-40°	1299.4	18.6
40°-50°	1316.5	18.8
50°-60°	1145.8	16.4
60°-70°	780.8	11.2
70°-80°	312.1	4.5
80°-90°	35.7	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°	2107.7	30.1
0°-40°	3407.1	48.7
0°-60°	5869.4	83.9
0°-90°	6998.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6998.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2772	2772	2772	2772	2772	
5°	2767	2751	2762	2758	2759	262
15°	2626	2615	2636	2645	2652	740
25°	2366	2368	2398	2418	2434	1089
35°	2014	2024	2071	2126	2160	1259
45°	1606	1626	1704	1784	1826	1240
55°	1174	1199	1287	1368	1397	1049
65°	725	759	813	814	818	718
75°	298	315	300	258	242	320
85°	30	27	20	18	16	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2772.3	2772.3	2772.3	2772.3	2772.3
2.5°	2780.0	2762.1	2772.3	2770.4	2762.9
5°	2766.6	2750.6	2762.1	2758.3	2759.1
7.5°	2745.0	2730.0	2742.3	2741.3	2744.2
10°	2714.0	2699.0	2714.0	2714.8	2717.7
12.5°	2675.3	2662.2	2680.1	2683.8	2690.5
15°	2626.4	2615.2	2635.8	2645.3	2651.8
17.5°	2573.8	2566.3	2586.9	2599.1	2609.5
20°	2509.7	2505.9	2530.5	2542.5	2556.7
22.5°	2440.0	2438.1	2467.4	2482.4	2496.6
25°	2366.5	2367.6	2397.7	2417.5	2433.5
27.5°	2285.6	2287.5	2324.3	2347.8	2367.6
30°	2199.0	2203.8	2244.2	2276.2	2300.8
32.5°	2107.7	2116.2	2159.5	2203.8	2234.8
35°	2014.5	2024.1	2071.1	2125.6	2159.5
37.5°	1918.6	1929.0	1983.5	2047.6	2083.4
40°	1814.1	1829.9	1893.2	1963.7	2000.3
42.5°	1711.3	1729.2	1800.0	1877.2	1916.7
45°	1606.1	1625.8	1703.8	1783.9	1826.2
47.5°	1504.3	1521.2	1605.0	1688.9	1726.5
50°	1392.4	1414.8	1502.4	1586.3	1626.6
52.5°	1285.0	1306.6	1396.1	1481.6	1523.2
55°	1173.9	1199.3	1286.9	1367.8	1396.9
57.5°	1062.0	1091.1	1175.8	1242.6	1267.9
60°	950.9	980.0	1059.0	1111.7	1130.6
62.5°	838.7	868.9	938.6	970.6	974.4
65°	724.9	758.8	813.3	814.4	818.1
67.5°	616.7	644.8	684.3	673.1	667.5
70°	500.8	531.8	547.8	525.4	512.0
72.5°	398.2	420.7	418.0	384.9	369.1
75°	297.5	315.4	300.2	258.0	242.0
77.5°	206.2	221.2	191.0	151.5	135.7
80°	129.8	136.5	103.6	73.4	62.2
82.5°	69.7	68.7	44.3	36.6	33.9
85°	30.2	27.3	19.8	17.9	16.0
87.5°	10.4	9.4	7.5	6.7	5.6
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	15.49	17.07	15.85	17.39	17.70	16.45	18.03	16.82	18.35	18.66
	3H	16.91	18.33	17.29	18.66	19.02	17.64	19.06	18.02	19.39	19.75
	4H	17.30	18.64	17.70	18.99	19.36	17.86	19.19	18.25	19.54	19.91
	6H	17.48	18.71	17.89	19.07	19.47	17.87	19.10	18.29	19.47	19.86
	8H	17.49	18.66	17.92	19.05	19.45	17.85	19.02	18.28	19.41	19.81
	12H	17.48	18.60	17.91	18.99	19.41	17.82	18.95	18.25	19.33	19.76
4H	2H	16.15	17.48	16.55	17.83	18.21	16.92	18.26	17.32	18.61	18.98
	3H	17.73	18.83	18.14	19.23	19.63	18.27	19.38	18.68	19.78	20.18
	4H	18.20	19.20	18.64	19.61	20.05	18.54	19.53	18.97	19.95	20.39
	6H	18.44	19.31	18.90	19.75	20.21	18.59	19.45	19.05	19.90	20.35
	8H	18.47	19.27	18.93	19.71	20.18	18.57	19.37	19.03	19.82	20.28
	12H	18.47	19.18	18.95	19.66	20.13	18.55	19.27	19.03	19.74	20.21
8H	4H	18.34	19.14	18.80	19.59	20.05	18.66	19.46	19.12	19.90	20.37
	6H	18.62	19.28	19.11	19.77	20.24	18.72	19.38	19.21	19.87	20.34
	8H	18.65	19.25	19.17	19.75	20.24	18.69	19.28	19.21	19.79	20.28
	12H	18.67	19.19	19.18	19.68	20.24	18.68	19.20	19.19	19.69	20.25
12H	4H	18.32	19.04	18.80	19.52	19.99	18.65	19.36	19.13	19.84	20.31
	6H	18.59	19.18	19.10	19.69	20.17	18.69	19.29	19.21	19.79	20.28
	8H	18.65	19.17	19.16	19.66	20.23	18.69	19.21	19.20	19.71	20.27