

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: P1498690

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498690
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-STD-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

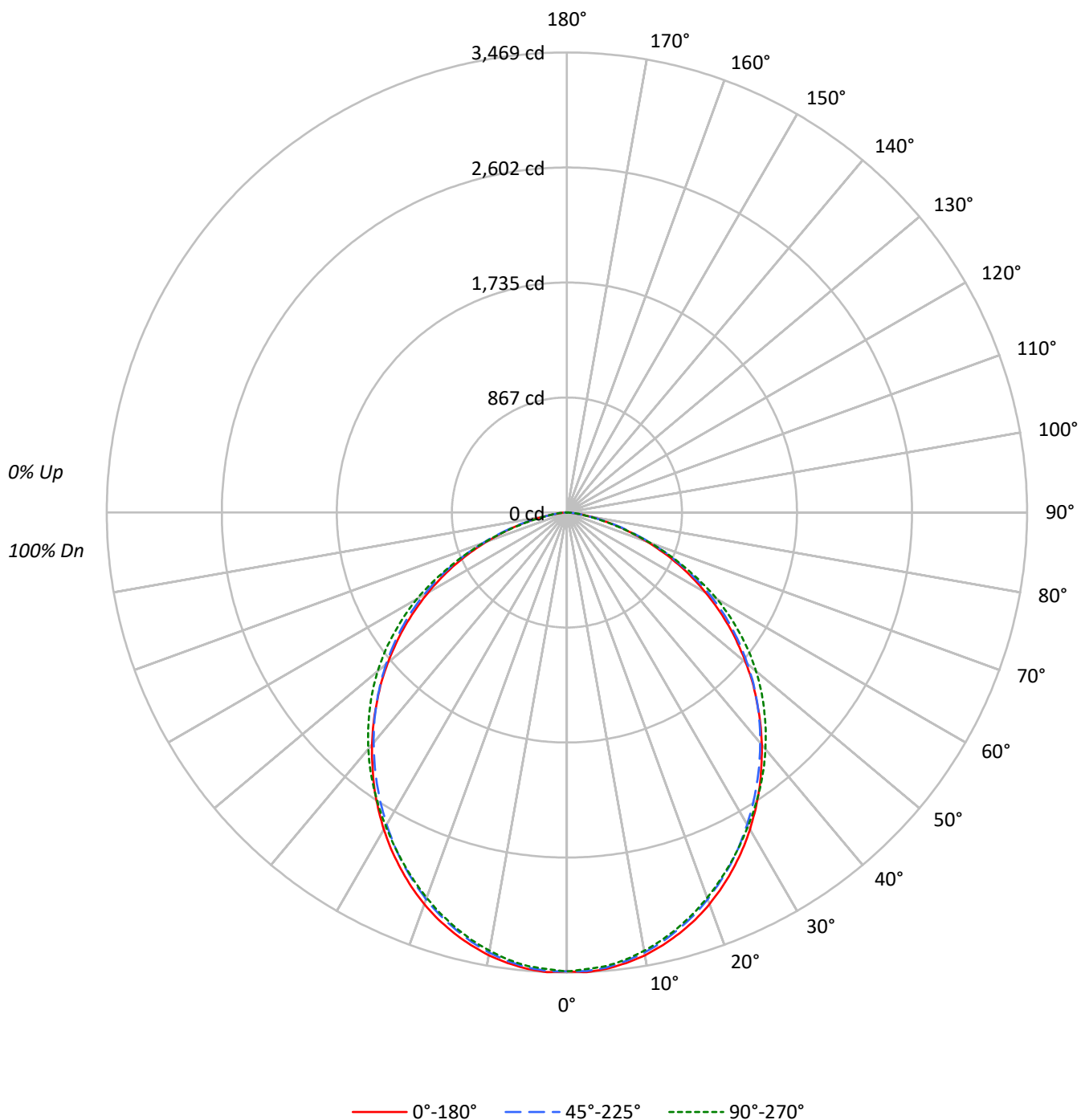
Lumens per Lamp: N/A
Luminaire Lumens: 8540.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	92	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	29	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9312	9312	9312
5°	9329	9300	9272
10°	9264	9208	9169
15°	9151	9064	9027
20°	9001	8888	8854
25°	8802	8680	8663
30°	8576	8442	8487
35°	8318	8200	8338
40°	8028	7963	8180
45°	7713	7720	8002
50°	7369	7444	7792
55°	6982	7123	7474
60°	6500	6709	7039
65°	5902	6143	6267
70°	5079	5318	5244
75°	4031	4188	3854
80°	2706	2690	2430
85°	1383	1639	1961

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8002 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.9	3.8
10°-20°	916.7	10.7
20°-30°	1347.9	15.8
30°-40°	1571.1	18.4
40°-50°	1576.4	18.5
50°-60°	1363.5	16.0
60°-70°	947.1	11.1
70°-80°	420.7	4.9
80°-90°	70.7	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°	2590.5	30.3
0°-40°	4161.6	48.7
0°-60°	7101.5	83.2
0°-90°	8540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3460	3460	3460	3460	3460	
5°	3454	3438	3443	3428	3433	328
15°	3285	3264	3253	3235	3240	926
25°	2965	2941	2923	2905	2918	1365
35°	2532	2504	2496	2512	2538	1582
45°	2027	2009	2029	2074	2103	1564
55°	1488	1476	1518	1574	1593	1328
65°	927	928	965	982	984	916
75°	388	393	403	384	371	416
85°	45	47	53	61	64	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3460.5	3460.5	3460.5	3460.5	3460.5
2.5°	3469.4	3454.2	3460.5	3449.1	3446.0
5°	3453.7	3438.4	3443.0	3428.1	3432.6
7.5°	3426.8	3410.9	3411.9	3396.1	3400.3
10°	3390.3	3371.8	3369.8	3352.2	3355.6
12.5°	3341.8	3323.1	3317.1	3297.3	3303.2
15°	3284.9	3264.5	3253.4	3234.6	3240.1
17.5°	3218.8	3196.7	3183.6	3161.3	3170.2
20°	3143.0	3119.6	3103.8	3080.0	3091.8
22.5°	3058.0	3033.9	3015.5	2994.9	3007.0
25°	2964.6	2940.7	2923.3	2905.1	2917.8
27.5°	2866.2	2839.7	2822.9	2811.2	2825.1
30°	2759.9	2732.7	2717.0	2711.5	2731.2
32.5°	2647.4	2621.1	2608.3	2613.5	2636.1
35°	2532.2	2504.5	2496.0	2512.0	2538.1
37.5°	2408.1	2385.7	2382.9	2409.6	2436.2
40°	2285.4	2261.9	2266.9	2300.5	2328.5
42.5°	2158.4	2138.3	2149.1	2191.1	2217.2
45°	2026.8	2008.7	2028.7	2074.2	2102.8
47.5°	1897.8	1878.9	1905.6	1955.1	1985.6
50°	1760.2	1745.9	1778.2	1832.8	1861.3
52.5°	1624.1	1610.3	1649.1	1706.4	1733.5
55°	1488.2	1476.2	1518.3	1573.6	1593.1
57.5°	1347.6	1342.7	1385.4	1433.6	1453.6
60°	1207.8	1204.1	1246.6	1290.4	1307.8
62.5°	1068.0	1067.5	1107.2	1141.6	1146.7
65°	926.9	928.3	964.7	981.5	984.3
67.5°	784.4	789.5	821.5	828.3	827.0
70°	645.5	648.5	675.9	675.4	666.5
72.5°	510.6	517.0	533.2	525.6	511.9
75°	387.7	393.1	402.8	383.8	370.7
77.5°	273.3	277.2	279.5	259.0	250.3
80°	174.6	180.1	173.6	162.7	156.8
82.5°	97.3	102.4	96.7	102.7	105.5
85°	44.8	47.4	53.1	60.6	63.5
87.5°	15.2	17.8	21.6	23.0	21.4
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	18.68	20.27	19.05	20.58	20.90	19.15	20.74	19.52	21.05	21.37
	3H	20.13	21.55	20.50	21.88	22.24	20.54	21.96	20.92	22.29	22.65
	4H	20.54	21.88	20.94	22.23	22.60	20.89	22.23	21.29	22.57	22.95
	6H	20.74	21.98	21.15	22.34	22.73	21.03	22.26	21.44	22.63	23.02
	8H	20.76	21.94	21.19	22.33	22.73	21.05	22.22	21.47	22.61	23.01
	12H	20.76	21.89	21.19	22.27	22.70	21.05	22.18	21.48	22.56	22.99
4H	2H	19.28	20.62	19.68	20.96	21.34	19.66	21.00	20.06	21.34	21.72
	3H	20.89	22.01	21.30	22.40	22.80	21.23	22.34	21.64	22.74	23.14
	4H	21.40	22.39	21.83	22.81	23.25	21.66	22.66	22.09	23.07	23.51
	6H	21.67	22.53	22.12	22.98	23.43	21.86	22.73	22.32	23.17	23.63
	8H	21.70	22.52	22.17	22.96	23.42	21.89	22.70	22.36	23.15	23.61
	12H	21.71	22.44	22.19	22.92	23.39	21.92	22.64	22.40	23.12	23.59
8H	4H	21.57	22.39	22.04	22.83	23.29	21.82	22.63	22.28	23.07	23.54
	6H	21.89	22.56	22.39	23.05	23.53	22.06	22.73	22.55	23.22	23.69
	8H	21.96	22.56	22.47	23.06	23.55	22.11	22.71	22.63	23.22	23.71
	12H	21.99	22.52	22.50	23.01	23.57	22.17	22.69	22.67	23.19	23.75
12H	4H	21.57	22.29	22.05	22.77	23.24	21.81	22.54	22.29	23.01	23.48
	6H	21.88	22.49	22.40	22.99	23.48	22.05	22.65	22.56	23.16	23.65
	8H	21.98	22.51	22.49	23.00	23.56	22.14	22.67	22.65	23.16	23.72

END OF REPORT