

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: P1498680

Luminaire Tested: MAE-G-2-120-3HI-STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498680
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-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

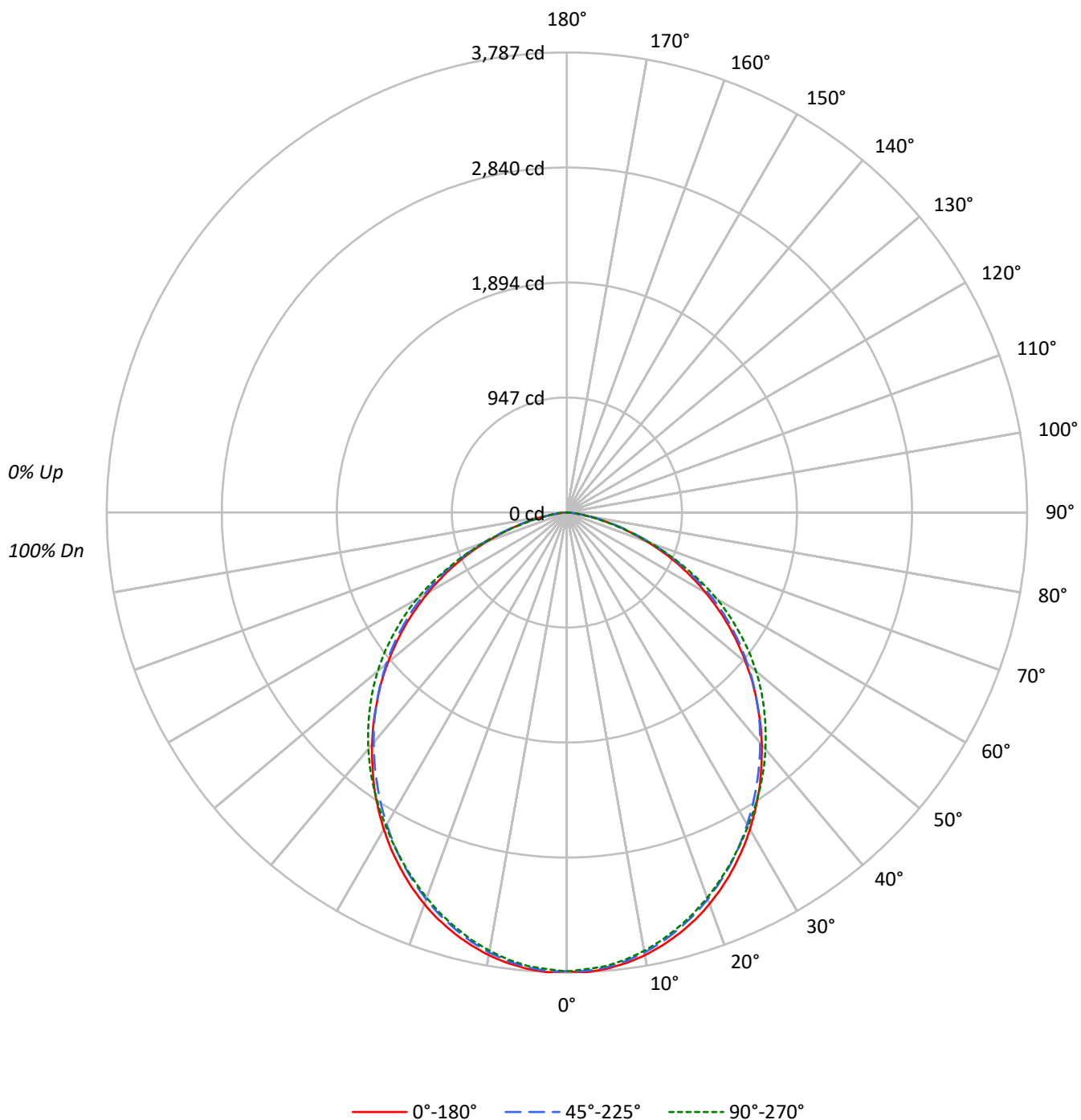
Lumens per Lamp: N/A
Luminaire Lumens: 9322.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	10165	10165	10165
5°	10184	10152	10121
10°	10112	10051	10009
15°	9989	9894	9853
20°	9825	9702	9665
25°	9608	9475	9456
30°	9361	9216	9264
35°	9080	8950	9101
40°	8763	8692	8929
45°	8420	8427	8735
50°	8044	8126	8505
55°	7621	7775	8159
60°	7096	7323	7683
65°	6442	6705	6841
70°	5544	5805	5724
75°	4400	4572	4208
80°	2954	2937	2653
85°	1507	1791	2140

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8735 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.7	3.8
10°-20°	1000.6	10.7
20°-30°	1471.3	15.8
30°-40°	1715.0	18.4
40°-50°	1720.8	18.5
50°-60°	1488.3	16.0
60°-70°	1033.8	11.1
70°-80°	459.3	4.9
80°-90°	77.2	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°	2827.7	30.3
0°-40°	4542.7	48.7
0°-60°	7751.7	83.2
0°-90°	9322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3777	3777	3777	3777	3777	
5°	3770	3753	3758	3742	3747	358
15°	3586	3563	3551	3531	3537	1010
25°	3236	3210	3191	3171	3185	1490
35°	2764	2734	2724	2742	2770	1727
45°	2212	2193	2214	2264	2295	1707
55°	1624	1611	1657	1718	1739	1450
65°	1012	1013	1053	1071	1074	1000
75°	423	429	440	419	405	455
85°	49	52	58	66	69	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3777.4	3777.4	3777.4	3777.4	3777.4
2.5°	3787.1	3770.5	3777.4	3764.9	3761.5
5°	3770.0	3753.2	3758.2	3742.1	3746.9
7.5°	3740.6	3723.2	3724.3	3707.1	3711.6
10°	3700.8	3680.6	3678.3	3659.1	3662.9
12.5°	3647.8	3627.4	3620.9	3599.2	3605.6
15°	3585.7	3563.4	3551.4	3530.8	3536.8
17.5°	3513.6	3489.5	3475.2	3450.8	3460.4
20°	3430.8	3405.2	3388.1	3362.1	3374.9
22.5°	3338.1	3311.7	3291.6	3269.2	3282.3
25°	3236.0	3209.9	3191.1	3171.1	3184.9
27.5°	3128.7	3099.7	3081.4	3068.6	3083.8
30°	3012.5	2982.8	2965.8	2959.8	2981.3
32.5°	2889.8	2861.1	2847.1	2852.8	2877.4
35°	2764.1	2733.8	2724.5	2742.0	2770.5
37.5°	2628.7	2604.1	2601.0	2630.2	2659.3
40°	2494.6	2469.0	2474.5	2511.3	2541.7
42.5°	2356.0	2334.1	2346.0	2391.7	2420.3
45°	2212.4	2192.6	2214.4	2264.1	2295.4
47.5°	2071.6	2051.0	2080.1	2134.1	2167.4
50°	1921.4	1905.8	1941.0	2000.6	2031.6
52.5°	1772.8	1757.6	1800.1	1862.7	1892.3
55°	1624.4	1611.3	1657.3	1717.7	1739.0
57.5°	1471.0	1465.6	1512.2	1564.9	1586.8
60°	1318.5	1314.3	1360.6	1408.5	1427.6
62.5°	1165.7	1165.3	1208.6	1246.1	1251.7
65°	1011.7	1013.3	1053.0	1071.3	1074.4
67.5°	856.2	861.8	896.7	904.1	902.8
70°	704.6	707.9	737.8	737.3	727.5
72.5°	557.4	564.4	581.9	573.7	558.8
75°	423.2	429.1	439.7	419.1	404.7
77.5°	298.3	302.6	305.0	282.7	273.2
80°	190.6	196.6	189.5	177.6	171.2
82.5°	106.1	111.7	105.6	112.1	115.2
85°	48.8	51.7	58.0	66.1	69.3
87.5°	16.6	19.4	23.7	25.1	23.3
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	18.99	20.57	19.35	20.89	21.20	19.46	21.04	19.82	21.36	21.67
	3H	20.43	21.86	20.81	22.18	22.54	20.84	22.27	21.22	22.60	22.96
	4H	20.85	22.18	21.25	22.53	22.91	21.19	22.53	21.59	22.88	23.26
	6H	21.04	22.28	21.46	22.65	23.04	21.33	22.57	21.74	22.93	23.32
	8H	21.07	22.25	21.49	22.64	23.04	21.35	22.53	21.78	22.92	23.32
	12H	21.07	22.19	21.50	22.57	23.00	21.36	22.48	21.79	22.87	23.29
4H	2H	19.58	20.92	19.98	21.27	21.65	19.96	21.30	20.36	21.65	22.03
	3H	21.20	22.31	21.61	22.71	23.11	21.53	22.64	21.94	23.04	23.44
	4H	21.70	22.70	22.13	23.11	23.55	21.96	22.96	22.40	23.38	23.81
	6H	21.97	22.84	22.43	23.28	23.74	22.17	23.03	22.62	23.48	23.93
	8H	22.01	22.82	22.47	23.26	23.73	22.20	23.01	22.66	23.45	23.92
	12H	22.02	22.74	22.50	23.22	23.69	22.22	22.95	22.70	23.42	23.89
8H	4H	21.88	22.69	22.34	23.13	23.60	22.12	22.93	22.58	23.37	23.84
	6H	22.20	22.87	22.69	23.36	23.83	22.36	23.03	22.86	23.52	24.00
	8H	22.26	22.86	22.77	23.37	23.86	22.42	23.02	22.93	23.53	24.01
	12H	22.29	22.82	22.80	23.31	23.87	22.47	23.00	22.98	23.49	24.05
12H	4H	21.87	22.60	22.35	23.07	23.55	22.11	22.84	22.60	23.32	23.79
	6H	22.19	22.79	22.70	23.30	23.79	22.35	22.95	22.87	23.46	23.95
	8H	22.28	22.81	22.79	23.30	23.87	22.44	22.97	22.95	23.46	24.03

END OF REPORT