

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: P1499688

Luminaire Tested: MAE-G-4-120-3STD-HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499688
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-4-120-3STD-HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

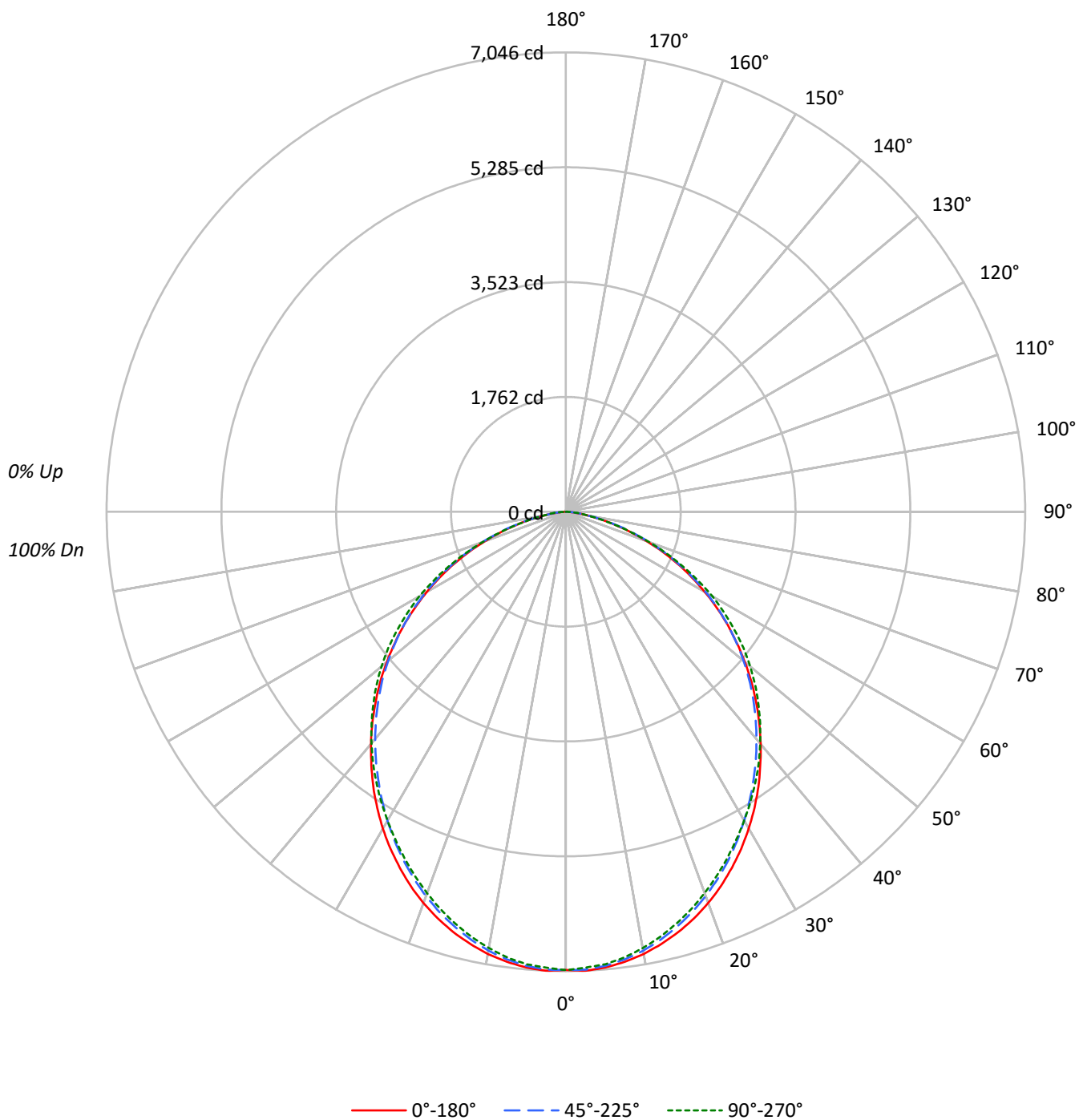
Lumens per Lamp: N/A
Luminaire Lumens: 17229.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 191.3
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	42	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9458	9458	9458
5°	9475	9443	9408
10°	9409	9339	9284
15°	9296	9177	9113
20°	9145	8981	8913
25°	8946	8755	8698
30°	8719	8500	8497
35°	8461	8242	8326
40°	8168	7991	8147
45°	7851	7735	7951
50°	7504	7448	7723
55°	7112	7118	7402
60°	6627	6698	6990
65°	6025	6139	6290
70°	5195	5359	5363
75°	4134	4302	4098
80°	2793	2894	2779
85°	1447	1876	2328

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7951 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.5	3.8
10°-20°	1856.3	10.8
20°-30°	2721.4	15.8
30°-40°	3163.1	18.4
40°-50°	3165.0	18.4
50°-60°	2732.0	15.9
60°-70°	1905.6	11.1
70°-80°	867.9	5.0
80°-90°	156.4	0.9
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°	5239.2	30.4
0°-40°	8402.2	48.8
0°-60°	14299.2	83.0
0°-90°	17229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7029	7029	7029	7029	7029	
5°	7015	6986	6991	6956	6966	665
15°	6674	6629	6588	6533	6542	1881
25°	6026	5965	5897	5839	5859	2774
35°	5151	5075	5018	5026	5069	3218
45°	4126	4066	4065	4132	4178	3183
55°	3032	2986	3034	3123	3156	2706
65°	1892	1875	1928	1967	1976	1870
75°	795	796	828	807	788	854
85°	94	102	122	142	151	138
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7029.3	7029.3	7029.3	7029.3	7029.3
2.5°	7046.1	7019.6	7029.3	7001.4	6998.1
5°	7014.9	6986.5	6991.3	6955.5	6965.6
7.5°	6960.5	6929.7	6924.9	6885.0	6893.7
10°	6886.8	6849.8	6835.4	6788.8	6795.1
12.5°	6788.9	6749.4	6723.2	6669.4	6679.5
15°	6673.6	6629.1	6588.3	6533.3	6542.1
17.5°	6540.0	6490.0	6440.2	6377.0	6392.1
20°	6386.8	6331.8	6272.6	6205.9	6225.1
22.5°	6215.0	6156.0	6089.3	6027.5	6045.9
25°	6026.0	5964.8	5897.1	5839.4	5858.7
27.5°	5827.1	5758.7	5688.9	5643.7	5665.2
30°	5611.8	5540.3	5471.1	5437.8	5469.4
32.5°	5384.6	5312.5	5248.2	5235.1	5272.0
35°	5150.9	5074.7	5017.9	5025.9	5069.1
37.5°	4899.7	4833.2	4786.2	4815.1	4858.8
40°	4650.5	4581.5	4549.5	4592.1	4638.5
42.5°	4392.6	4329.8	4309.9	4368.6	4411.4
45°	4126.0	4066.2	4064.8	4131.6	4178.4
47.5°	3863.2	3802.8	3815.9	3890.3	3941.5
50°	3585.0	3532.9	3558.2	3643.4	3689.4
52.5°	3307.1	3257.6	3297.8	3388.6	3433.8
55°	3031.9	2985.5	3034.2	3123.1	3155.6
57.5°	2746.6	2714.7	2767.2	2846.4	2881.3
60°	2462.8	2433.9	2489.1	2564.7	2597.4
62.5°	2178.2	2156.6	2211.1	2275.0	2288.0
65°	1892.3	1875.0	1928.2	1967.0	1975.8
67.5°	1602.9	1594.9	1646.5	1671.2	1672.7
70°	1320.6	1310.1	1362.2	1374.6	1363.2
72.5°	1046.2	1045.4	1083.5	1084.0	1063.7
75°	795.2	796.0	827.5	807.1	788.3
77.5°	561.9	564.6	584.1	560.4	550.1
80°	360.4	371.1	373.5	365.9	358.7
82.5°	202.2	214.8	216.5	237.0	245.8
85°	93.7	102.4	121.5	142.1	150.8
87.5°	31.8	39.1	50.2	54.0	50.6
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	18.74	20.32	19.10	20.64	20.95	19.07	20.65	19.44	20.97	21.28
	3H	20.19	21.62	20.57	21.94	22.30	20.51	21.93	20.89	22.26	22.62
	4H	20.61	21.95	21.01	22.30	22.67	20.90	22.24	21.30	22.58	22.96
	6H	20.82	22.05	21.23	22.42	22.81	21.08	22.31	21.49	22.68	23.07
	8H	20.84	22.02	21.27	22.41	22.81	21.11	22.29	21.54	22.68	23.08
	12H	20.84	21.97	21.27	22.35	22.78	21.13	22.26	21.56	22.64	23.07
4H	2H	19.32	20.65	19.71	21.00	21.38	19.58	20.92	19.98	21.27	21.65
	3H	20.94	22.05	21.35	22.45	22.85	21.21	22.32	21.62	22.72	23.12
	4H	21.45	22.45	21.88	22.87	23.30	21.69	22.69	22.12	23.10	23.54
	6H	21.73	22.60	22.18	23.04	23.50	21.94	22.81	22.39	23.25	23.71
	8H	21.77	22.58	22.23	23.03	23.49	21.99	22.80	22.45	23.25	23.71
	12H	21.78	22.51	22.26	22.99	23.46	22.03	22.76	22.51	23.24	23.71
8H	4H	21.64	22.45	22.10	22.89	23.36	21.85	22.67	22.32	23.11	23.58
	6H	21.97	22.64	22.47	23.13	23.61	22.16	22.83	22.65	23.32	23.79
	8H	22.04	22.64	22.55	23.15	23.63	22.24	22.84	22.75	23.35	23.84
	12H	22.07	22.60	22.58	23.09	23.66	22.32	22.84	22.82	23.34	23.90
12H	4H	21.64	22.36	22.12	22.84	23.31	21.85	22.58	22.33	23.05	23.52
	6H	21.97	22.57	22.48	23.08	23.56	22.15	22.75	22.66	23.26	23.75
	8H	22.07	22.60	22.58	23.09	23.65	22.27	22.80	22.78	23.29	23.85