

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: P1498920

Luminaire Tested: MAE-G-4-120-1HI-HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

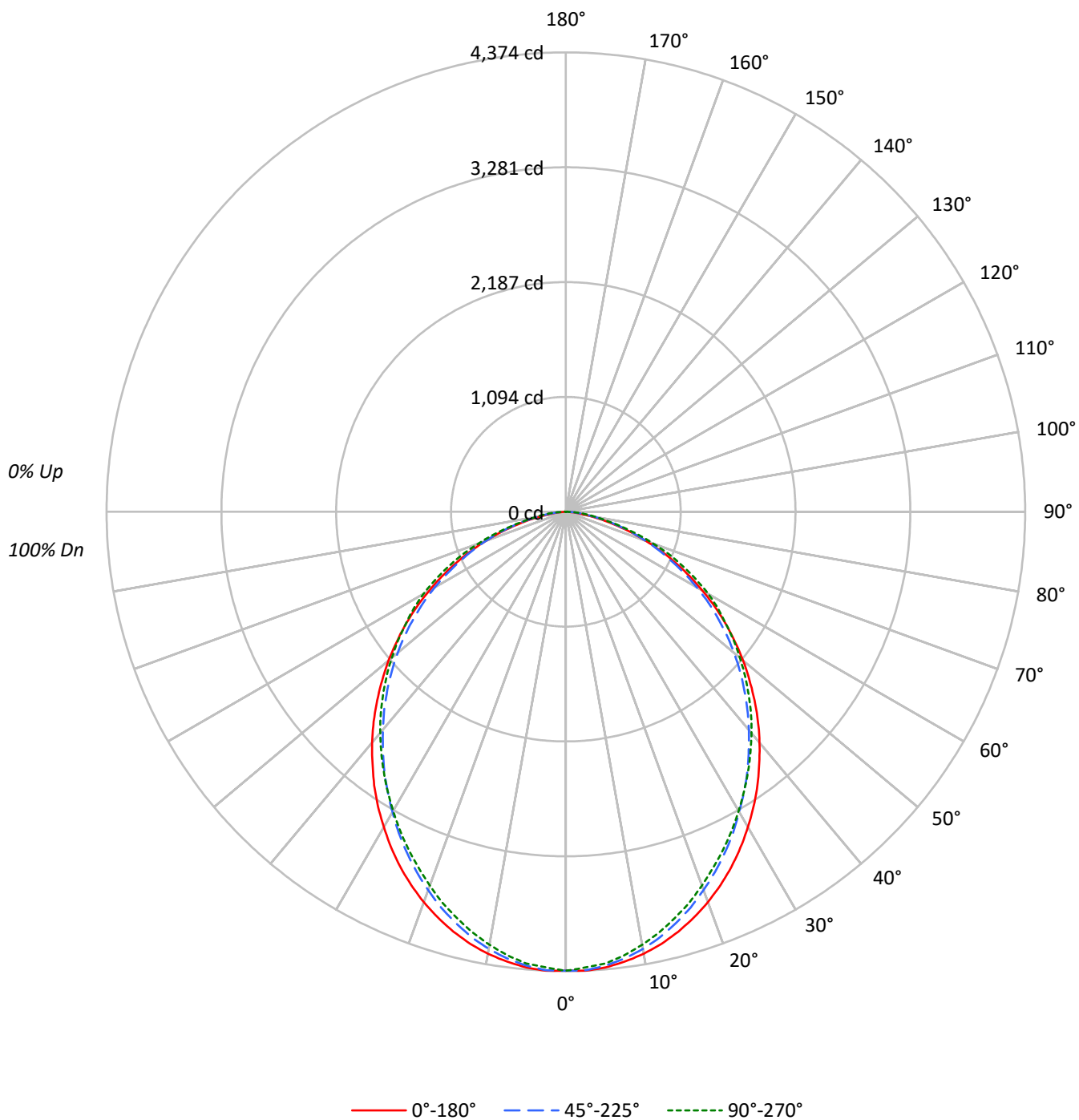
Lumens per Lamp: N/A
Luminaire Lumens: 10456.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64
5	78	65	56	50	75	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5879	5879	5879
5°	5881	5858	5830
10°	5839	5775	5720
15°	5765	5646	5579
20°	5664	5489	5424
25°	5538	5319	5265
30°	5387	5129	5110
35°	5226	4950	4966
40°	5040	4762	4831
45°	4834	4575	4682
50°	4613	4377	4527
55°	4358	4145	4364
60°	4044	3879	4219
65°	3680	3535	3923
70°	3193	3178	3496
75°	2549	2705	2871
80°	1763	2089	2277
85°	985	1593	2072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4834 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.1	3.9
10°-20°	1143.4	10.9
20°-30°	1660.9	15.9
30°-40°	1911.4	18.3
40°-50°	1891.9	18.1
50°-60°	1619.9	15.5
60°-70°	1142.5	10.9
70°-80°	555.1	5.3
80°-90°	120.8	1.2
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°	3214.4	30.7
0°-40°	5125.8	49.0
0°-60°	8637.6	82.6
0°-90°	10456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4369	4369	4369	4369	4369	
5°	4354	4351	4338	4307	4317	413
15°	4139	4116	4053	3999	4005	1166
25°	3730	3676	3582	3537	3547	1717
35°	3182	3107	3014	3002	3023	1988
45°	2540	2472	2404	2434	2461	1959
55°	1858	1795	1767	1820	1860	1658
65°	1156	1107	1110	1195	1232	1144
75°	490	469	520	552	552	529
85°	64	78	103	125	134	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4369.4	4369.4	4369.4	4369.4	4369.4
2.5°	4374.4	4378.1	4369.4	4336.7	4342.3
5°	4354.4	4350.6	4337.6	4306.9	4316.7
7.5°	4319.5	4313.6	4290.1	4253.8	4260.2
10°	4273.4	4261.5	4226.7	4181.3	4186.7
12.5°	4213.6	4197.6	4148.6	4097.2	4102.8
15°	4138.8	4115.7	4053.3	3999.2	4005.1
17.5°	4052.9	4026.6	3951.0	3892.4	3904.8
20°	3955.5	3919.9	3833.2	3777.5	3788.2
22.5°	3848.3	3803.6	3712.5	3658.9	3667.3
25°	3730.3	3675.9	3582.5	3536.6	3546.7
27.5°	3603.0	3543.2	3447.2	3405.3	3420.7
30°	3467.3	3402.9	3301.2	3272.3	3289.1
32.5°	3327.9	3259.5	3159.1	3140.6	3157.4
35°	3181.5	3106.8	3013.5	3002.3	3023.4
37.5°	3024.7	2953.0	2860.8	2868.0	2887.7
40°	2869.7	2795.3	2711.0	2726.9	2750.7
42.5°	2708.3	2636.6	2559.7	2581.8	2609.7
45°	2540.2	2471.8	2404.5	2434.2	2460.7
47.5°	2371.4	2303.7	2249.1	2283.7	2315.2
50°	2203.9	2138.9	2091.1	2133.0	2162.9
52.5°	2028.1	1966.2	1931.9	1976.2	2014.5
55°	1857.7	1794.7	1767.1	1819.8	1860.3
57.5°	1681.6	1629.9	1606.1	1668.1	1718.6
60°	1502.8	1451.8	1441.6	1519.9	1567.8
62.5°	1328.0	1278.0	1273.4	1365.2	1399.6
65°	1155.8	1106.6	1110.3	1195.0	1232.1
67.5°	985.4	940.2	961.0	1042.2	1066.9
70°	811.7	771.4	807.8	876.3	888.7
72.5°	648.6	614.6	664.1	712.1	715.1
75°	490.3	469.2	520.3	552.0	552.2
77.5°	350.8	339.9	386.9	408.6	409.8
80°	227.5	232.5	269.6	286.5	293.9
82.5°	132.6	144.3	173.3	202.1	209.7
85°	63.8	77.8	103.2	125.2	134.2
87.5°	22.0	31.4	43.1	47.8	46.5
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	16.95	18.54	17.32	18.85	19.16	17.12	18.71	17.49	19.02	19.33
	3H	18.40	19.83	18.78	20.15	20.51	18.77	20.19	19.14	20.52	20.88
	4H	18.83	20.17	19.23	20.52	20.89	19.27	20.61	19.67	20.95	21.33
	6H	19.05	20.29	19.46	20.65	21.04	19.56	20.80	19.98	21.17	21.56
	8H	19.08	20.26	19.51	20.65	21.05	19.65	20.83	20.08	21.22	21.62
	12H	19.09	20.22	19.52	20.60	21.03	19.71	20.84	20.14	21.22	21.65
4H	2H	17.47	18.81	17.87	19.15	19.53	17.61	18.94	18.01	19.29	19.67
	3H	19.10	20.22	19.51	20.62	21.02	19.46	20.57	19.87	20.97	21.37
	4H	19.62	20.62	20.05	21.03	21.47	20.07	21.07	20.50	21.49	21.93
	6H	19.92	20.79	20.37	21.23	21.69	20.47	21.34	20.92	21.78	22.24
	8H	19.97	20.79	20.43	21.23	21.70	20.59	21.41	21.05	21.85	22.32
	12H	19.99	20.73	20.48	21.20	21.67	20.69	21.42	21.17	21.90	22.37
8H	4H	19.84	20.66	20.30	21.10	21.57	20.25	21.07	20.71	21.51	21.98
	6H	20.21	20.88	20.70	21.37	21.85	20.73	21.41	21.23	21.89	22.37
	8H	20.30	20.90	20.81	21.41	21.90	20.91	21.51	21.42	22.02	22.51
	12H	20.35	20.88	20.86	21.37	21.94	21.06	21.60	21.57	22.09	22.65
12H	4H	19.85	20.58	20.33	21.06	21.53	20.25	20.98	20.73	21.46	21.93
	6H	20.23	20.83	20.74	21.34	21.83	20.73	21.34	21.25	21.85	22.34
	8H	20.36	20.89	20.86	21.38	21.95	20.96	21.49	21.46	21.98	22.54