

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: P1499640

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499640
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-4-120-3LO-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

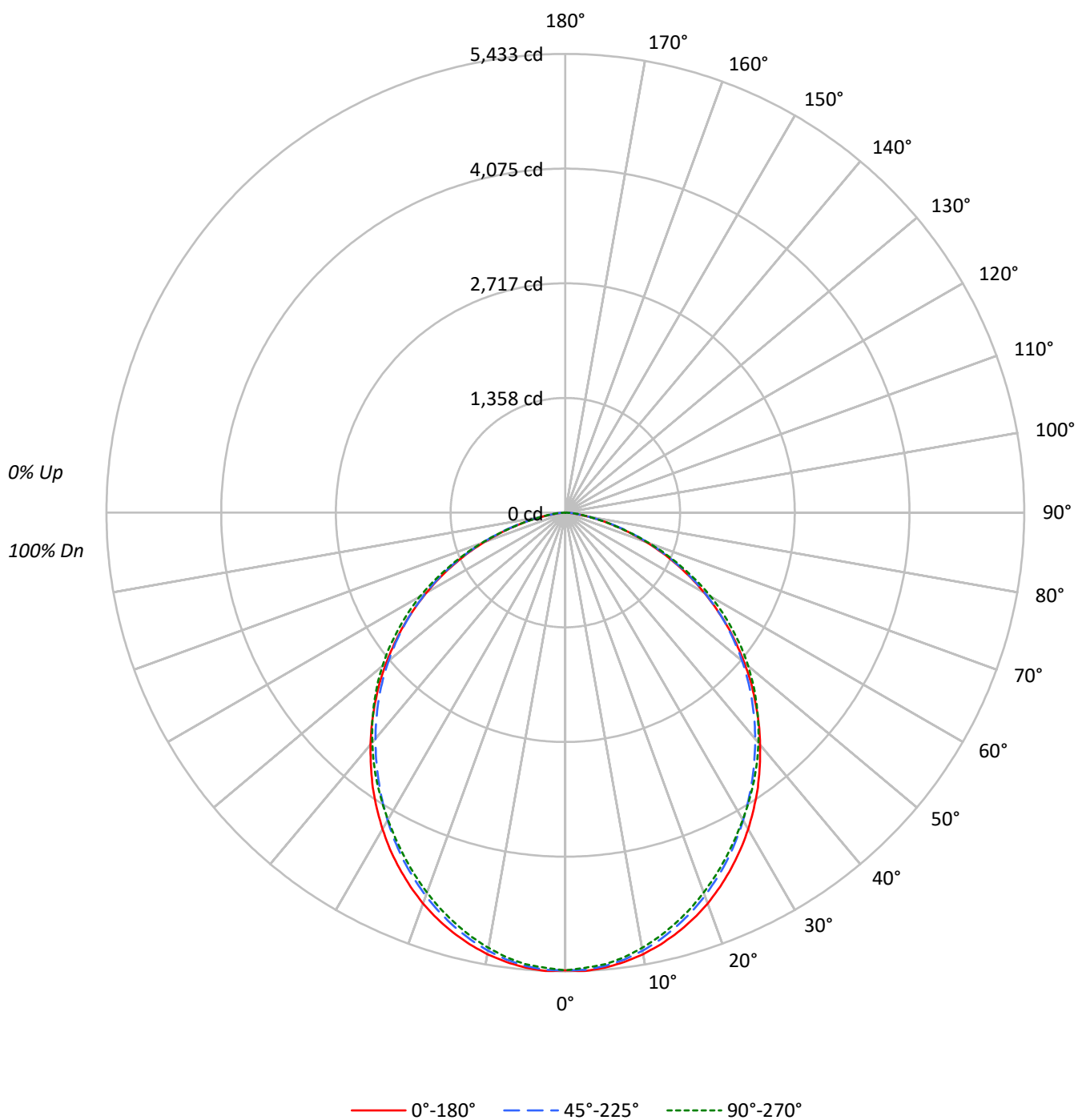
Lumens per Lamp: N/A
Luminaire Lumens: 13260.0 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.5
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	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	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7293	7293	7293
5°	7306	7281	7253
10°	7256	7199	7153
15°	7169	7071	7015
20°	7053	6916	6856
25°	6900	6738	6685
30°	6725	6538	6526
35°	6527	6337	6389
40°	6302	6141	6248
45°	6058	5941	6092
50°	5791	5719	5913
55°	5489	5463	5667
60°	5116	5140	5355
65°	4653	4712	4834
70°	4014	4123	4144
75°	3197	3328	3201
80°	2163	2267	2211
85°	1125	1493	1870

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6092 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.0	3.8
10°-20°	1430.2	10.8
20°-30°	2094.9	15.8
30°-40°	2433.0	18.3
40°-50°	2432.5	18.3
50°-60°	2098.5	15.8
60°-70°	1465.5	11.1
70°-80°	672.2	5.1
80°-90°	123.4	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°	4035.1	30.4
0°-40°	6468.0	48.8
0°-60°	10999.0	82.9
0°-90°	13260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13260.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5420	5420	5420	5420	5420	
5°	5409	5388	5391	5362	5370	513
15°	5146	5111	5076	5030	5036	1450
25°	4648	4598	4538	4490	4503	2140
35°	3974	3910	3858	3859	3890	2483
45°	3184	3132	3122	3168	3202	2456
55°	2340	2299	2329	2392	2416	2089
65°	1461	1444	1480	1511	1518	1444
75°	615	613	640	628	616	660
85°	73	80	97	114	121	107
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5420.5	5420.5	5420.5	5420.5	5420.5
2.5°	5433.3	5413.7	5420.5	5398.0	5396.1
5°	5409.3	5388.0	5390.7	5361.9	5369.9
7.5°	5367.4	5343.9	5338.9	5306.4	5313.1
10°	5310.7	5282.1	5268.9	5230.7	5235.3
12.5°	5235.3	5204.5	5181.3	5136.8	5144.2
15°	5146.4	5111.4	5076.1	5030.0	5036.2
17.5°	5043.6	5003.8	4960.5	4907.8	4918.7
20°	4925.6	4881.6	4829.9	4774.5	4788.3
22.5°	4793.3	4745.7	4687.7	4635.7	4648.6
25°	4647.8	4597.8	4538.4	4489.5	4502.9
27.5°	4494.6	4438.6	4377.0	4337.4	4352.6
30°	4328.8	4270.0	4208.4	4177.9	4200.4
32.5°	4153.8	4094.2	4036.2	4020.9	4047.4
35°	3973.6	3910.5	3858.0	3858.8	3889.9
37.5°	3780.1	3724.2	3679.0	3695.7	3727.1
40°	3588.0	3530.0	3496.1	3523.4	3557.0
42.5°	3389.1	3335.8	3311.3	3350.8	3381.6
45°	3183.7	3132.5	3122.3	3168.1	3201.8
47.5°	2980.8	2929.5	2930.6	2982.2	3019.3
50°	2766.6	2721.5	2732.0	2792.2	2825.0
52.5°	2552.0	2509.1	2531.6	2596.2	2628.9
55°	2339.9	2299.3	2328.8	2392.3	2415.8
57.5°	2120.0	2090.6	2123.7	2180.6	2206.2
60°	1901.1	1874.3	1910.0	1965.5	1990.0
62.5°	1681.6	1660.4	1696.9	1744.8	1755.4
65°	1461.4	1443.5	1480.1	1511.0	1518.5
67.5°	1238.1	1227.9	1264.8	1286.2	1288.3
70°	1020.4	1008.7	1048.1	1060.6	1053.3
72.5°	808.7	805.1	835.6	839.5	825.4
75°	614.9	613.3	640.2	628.3	615.7
77.5°	434.8	435.6	454.0	439.6	433.4
80°	279.2	287.3	292.6	289.9	285.4
82.5°	156.9	167.1	171.3	189.0	196.5
85°	72.9	80.3	96.7	113.7	121.1
87.5°	24.7	30.8	40.0	43.2	40.6
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	17.84	19.42	18.20	19.73	20.05	18.13	19.71	18.49	20.03	20.34
	3H	19.29	20.72	19.67	21.04	21.40	19.58	21.01	19.96	21.34	21.70
	4H	19.71	21.05	20.11	21.40	21.78	19.98	21.32	20.38	21.67	22.05
	6H	19.92	21.16	20.33	21.52	21.91	20.17	21.41	20.58	21.78	22.17
	8H	19.95	21.13	20.37	21.51	21.91	20.21	21.39	20.64	21.78	22.18
	12H	19.94	21.07	20.37	21.46	21.88	20.23	21.36	20.66	21.75	22.17
4H	2H	18.41	19.75	18.81	20.09	20.47	18.64	19.98	19.04	20.33	20.71
	3H	20.04	21.15	20.45	21.55	21.95	20.29	21.40	20.70	21.80	22.20
	4H	20.55	21.55	20.98	21.96	22.40	20.78	21.78	21.21	22.19	22.63
	6H	20.83	21.70	21.28	22.14	22.60	21.04	21.91	21.50	22.36	22.81
	8H	20.87	21.68	21.33	22.13	22.59	21.10	21.92	21.56	22.36	22.83
	12H	20.88	21.61	21.37	22.09	22.56	21.15	21.88	21.63	22.35	22.82
8H	4H	20.74	21.55	21.20	21.99	22.46	20.95	21.76	21.41	22.20	22.67
	6H	21.07	21.75	21.57	22.23	22.71	21.27	21.94	21.76	22.43	22.91
	8H	21.14	21.74	21.65	22.25	22.74	21.36	21.96	21.87	22.47	22.96
	12H	21.18	21.71	21.69	22.20	22.76	21.44	21.97	21.95	22.46	23.03
12H	4H	20.74	21.46	21.22	21.94	22.41	20.94	21.67	21.43	22.15	22.62
	6H	21.07	21.67	21.58	22.18	22.67	21.26	21.87	21.77	22.37	22.86
	8H	21.18	21.71	21.68	22.20	22.76	21.39	21.92	21.90	22.41	22.98