

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: P1499484

Luminaire Tested: MAE-G-4-120-3HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499484
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-4-120-3HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

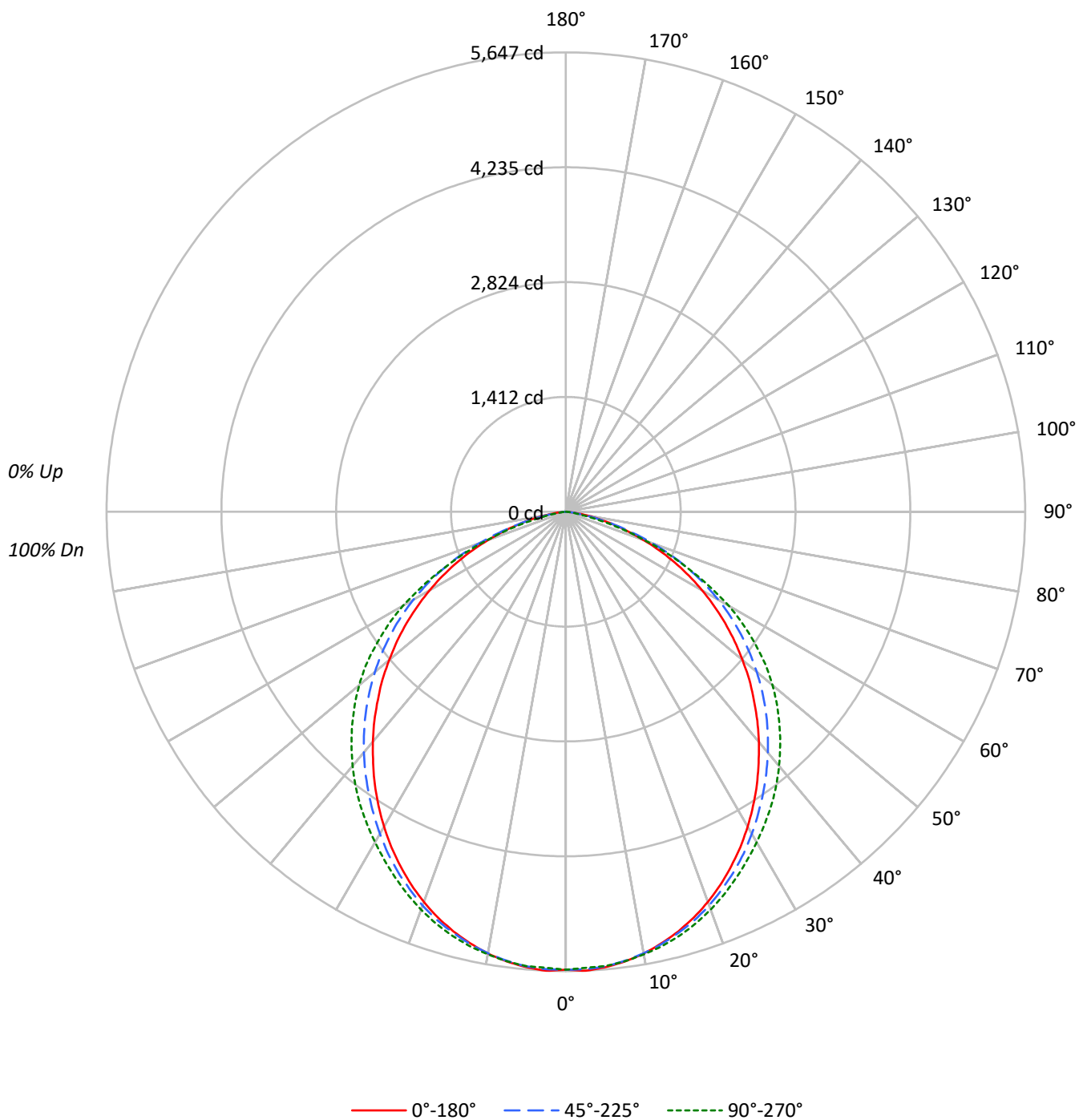
Lumens per Lamp: N/A
Luminaire Lumens: 14267.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132.9
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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7574	7574	7574
5°	7590	7574	7571
10°	7534	7531	7549
15°	7438	7462	7517
20°	7309	7376	7452
25°	7139	7253	7367
30°	6946	7104	7290
35°	6728	6942	7234
40°	6483	6785	7162
45°	6219	6617	7070
50°	5930	6413	6945
55°	5612	6164	6677
60°	5208	5824	6231
65°	4703	5312	5337
70°	4014	4460	4148
75°	3152	3254	2551
80°	2057	1674	987
85°	986	662	523

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7070 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	531.7	3.7
10°-20°	1509.6	10.6
20°-30°	2245.1	15.7
30°-40°	2645.6	18.5
40°-50°	2682.4	18.8
50°-60°	2337.4	16.4
60°-70°	1598.5	11.2
70°-80°	642.1	4.5
80°-90°	74.5	0.5
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°	4286.4	30.0
0°-40°	6932.1	48.6
0°-60°	11951.8	83.8
0°-90°	14267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14267.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5629	5629	5629	5629	5629	
5°	5620	5586	5608	5602	5606	533
15°	5340	5317	5357	5379	5396	1505
25°	4809	4810	4886	4921	4963	2214
35°	4096	4114	4226	4330	4404	2559
45°	3268	3312	3478	3634	3716	2523
55°	2392	2443	2628	2793	2846	2136
65°	1477	1544	1668	1681	1676	1461
75°	606	647	626	538	491	651
85°	64	57	43	38	34	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5629.1	5629.1	5629.1	5629.1	5629.1
2.5°	5647.2	5609.5	5629.1	5625.1	5610.7
5°	5619.9	5585.9	5608.1	5601.8	5605.5
7.5°	5575.6	5544.5	5567.8	5566.7	5573.0
10°	5514.6	5483.2	5512.0	5517.2	5525.0
12.5°	5433.8	5407.9	5443.0	5453.3	5468.9
15°	5340.0	5316.7	5357.0	5379.1	5396.1
17.5°	5230.7	5211.1	5263.2	5284.2	5307.5
20°	5104.4	5090.3	5151.3	5170.8	5204.8
22.5°	4964.0	4956.2	5019.8	5049.7	5088.8
25°	4808.9	4810.4	4885.8	4921.1	4962.6
27.5°	4646.4	4649.0	4735.0	4784.2	4828.5
30°	4470.7	4478.4	4572.2	4633.5	4691.9
32.5°	4284.5	4300.1	4401.6	4485.0	4550.0
35°	4095.8	4113.9	4226.1	4330.0	4404.2
37.5°	3891.6	3921.5	4047.8	4171.5	4248.0
40°	3691.1	3721.0	3862.8	3999.5	4077.7
42.5°	3484.2	3521.9	3672.9	3825.1	3900.5
45°	3268.2	3312.2	3477.6	3633.8	3715.8
47.5°	3061.1	3100.2	3274.5	3437.3	3521.9
50°	2833.2	2882.7	3063.7	3234.3	3317.7
52.5°	2616.1	2661.5	2847.6	3022.2	3097.6
55°	2392.2	2442.9	2627.8	2793.0	2846.5
57.5°	2163.0	2224.3	2402.6	2540.7	2591.3
60°	1935.4	1996.4	2164.4	2277.8	2315.4
62.5°	1708.7	1774.0	1921.0	1996.4	1996.4
65°	1477.2	1543.6	1668.5	1681.4	1676.2
67.5°	1245.6	1312.1	1407.0	1383.4	1367.9
70°	1020.4	1077.6	1133.7	1090.5	1054.3
72.5°	801.7	856.4	865.6	803.2	757.4
75°	606.4	647.0	626.0	537.7	490.8
77.5°	422.9	446.5	402.2	312.4	274.7
80°	265.5	275.9	216.0	152.2	127.4
82.5°	143.3	144.4	93.8	76.8	71.6
85°	63.9	57.2	42.9	37.7	33.9
87.5°	22.2	19.6	15.5	14.4	11.8
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	17.96	19.54	18.33	19.86	20.17	18.94	20.53	19.31	20.84	21.16
	3H	19.37	20.79	19.75	21.12	21.48	20.15	21.57	20.53	21.90	22.26
	4H	19.76	21.10	20.16	21.45	21.82	20.37	21.70	20.76	22.05	22.42
	6H	19.94	21.17	20.35	21.54	21.93	20.38	21.61	20.79	21.98	22.37
	8H	19.95	21.13	20.38	21.52	21.92	20.36	21.53	20.78	21.92	22.32
	12H	19.95	21.07	20.37	21.45	21.88	20.33	21.46	20.76	21.84	22.27
4H	2H	18.63	19.97	19.03	20.31	20.69	19.42	20.76	19.82	21.10	21.48
	3H	20.20	21.31	20.61	21.70	22.11	20.79	21.90	21.20	22.30	22.70
	4H	20.68	21.67	21.11	22.08	22.52	21.06	22.06	21.50	22.47	22.91
	6H	20.92	21.78	21.37	22.22	22.68	21.12	21.98	21.57	22.42	22.88
	8H	20.94	21.74	21.40	22.19	22.65	21.09	21.90	21.55	22.34	22.81
	12H	20.94	21.66	21.42	22.14	22.61	21.07	21.79	21.55	22.27	22.74
8H	4H	20.82	21.63	21.28	22.07	22.54	21.18	21.99	21.64	22.43	22.90
	6H	21.10	21.76	21.59	22.25	22.73	21.24	21.90	21.74	22.39	22.87
	8H	21.14	21.73	21.65	22.24	22.73	21.22	21.81	21.73	22.32	22.81
	12H	21.15	21.67	21.66	22.17	22.73	21.21	21.73	21.71	22.22	22.78
12H	4H	20.80	21.52	21.29	22.00	22.47	21.17	21.89	21.65	22.37	22.84
	6H	21.07	21.66	21.58	22.17	22.66	21.22	21.81	21.73	22.32	22.81
	8H	21.13	21.65	21.64	22.15	22.71	21.22	21.74	21.73	22.23	22.80