

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: P1499592

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499592
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-HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

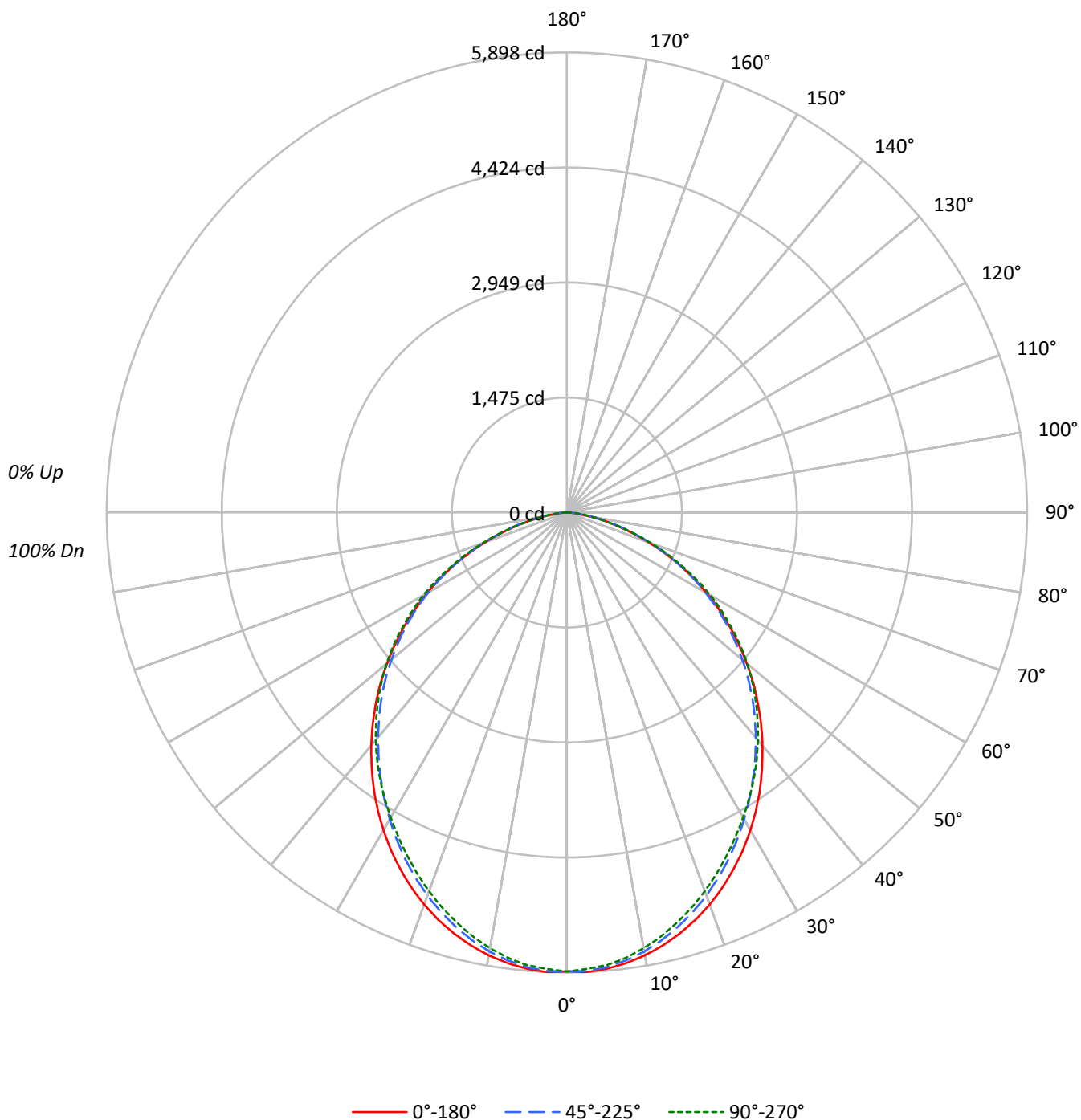
Lumens per Lamp: N/A
Luminaire Lumens: 14327.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 160.9
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	92	90		91	89	87	85
2	100	92	86	80	98	90	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	61
4	84	73	64	58	82	71	63	57	69	62	56		66	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	42	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	34		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7917	7917	7917
5°	7931	7902	7868
10°	7877	7807	7748
15°	7783	7659	7584
20°	7658	7481	7397
25°	7494	7279	7199
30°	7306	7055	7015
35°	7092	6830	6855
40°	6850	6611	6690
45°	6586	6388	6513
50°	6298	6144	6310
55°	5971	5864	6044
60°	5568	5513	5722
65°	5068	5058	5205
70°	4378	4452	4519
75°	3493	3640	3579
80°	2374	2554	2579
85°	1246	1741	2221

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6586 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.3	3.9
10°-20°	1549.2	10.8
20°-30°	2264.7	15.8
30°-40°	2624.9	18.3
40°-50°	2619.3	18.3
50°-60°	2256.5	15.8
60°-70°	1580.4	11.0
70°-80°	737.3	5.1
80°-90°	141.2	1.0
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°	4367.3	30.5
0°-40°	6992.2	48.8
0°-60°	11868.1	82.8
0°-90°	14327.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14327.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5884	5884	5884	5884	5884	
5°	5872	5850	5851	5816	5826	557
15°	5587	5548	5499	5439	5444	1575
25°	5048	4986	4903	4838	4849	2324
35°	4318	4238	4158	4145	4173	2698
45°	3461	3392	3357	3392	3423	2670
55°	2545	2489	2500	2555	2577	2272
65°	1592	1561	1589	1625	1635	1573
75°	672	664	700	698	688	722
85°	81	91	113	134	144	118
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5884.3	5884.3	5884.3	5884.3	5884.3
2.5°	5897.5	5878.6	5884.3	5857.2	5856.9
5°	5871.8	5850.3	5850.6	5816.1	5825.5
7.5°	5826.4	5801.9	5792.4	5752.7	5760.2
10°	5765.1	5734.4	5714.2	5666.6	5671.2
12.5°	5683.7	5649.4	5616.1	5560.2	5567.1
15°	5587.4	5547.6	5498.7	5439.2	5444.5
17.5°	5476.1	5430.0	5369.7	5302.2	5312.5
20°	5348.5	5296.4	5224.8	5154.1	5166.4
22.5°	5205.3	5147.9	5068.2	5000.3	5010.8
25°	5047.9	4986.3	4903.3	4838.4	4849.3
27.5°	4882.0	4813.0	4725.8	4670.5	4683.1
30°	4702.5	4629.3	4541.1	4495.3	4515.0
32.5°	4513.1	4437.9	4352.9	4322.8	4346.5
35°	4317.8	4237.9	4158.2	4145.1	4173.2
37.5°	4108.1	4035.5	3962.9	3966.6	3994.7
40°	3899.8	3824.6	3763.7	3778.6	3809.1
42.5°	3683.9	3613.4	3562.8	3590.5	3618.0
45°	3461.3	3392.5	3357.4	3392.4	3422.6
47.5°	3240.5	3172.2	3149.9	3191.1	3225.1
50°	3008.7	2946.6	2935.0	2985.5	3014.5
52.5°	2775.0	2716.2	2718.5	2773.9	2803.8
55°	2545.3	2488.6	2499.6	2555.0	2576.6
57.5°	2306.6	2262.3	2278.5	2329.6	2354.2
60°	2069.1	2027.9	2048.8	2101.4	2126.4
62.5°	1830.6	1795.7	1820.4	1869.0	1882.0
65°	1591.9	1561.0	1588.8	1625.0	1634.9
67.5°	1349.5	1328.0	1360.3	1389.8	1394.5
70°	1113.0	1090.9	1131.6	1152.8	1148.8
72.5°	883.1	871.2	907.4	920.7	909.6
75°	671.9	664.4	700.2	697.7	688.5
77.5°	475.9	473.7	502.3	496.9	494.3
80°	306.4	314.9	329.6	335.0	332.8
82.5°	173.0	185.4	197.4	221.4	231.3
85°	80.7	90.7	112.8	134.4	143.9
87.5°	27.3	35.1	47.0	51.0	48.2
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	18.12	19.71	18.49	20.02	20.33	18.32	19.90	18.68	20.22	20.53
	3H	19.58	21.01	19.96	21.33	21.70	19.81	21.24	20.19	21.56	21.92
	4H	20.01	21.35	20.41	21.70	22.07	20.24	21.58	20.64	21.93	22.30
	6H	20.22	21.46	20.63	21.82	22.21	20.46	21.70	20.87	22.06	22.45
	8H	20.25	21.43	20.67	21.82	22.22	20.51	21.69	20.94	22.08	22.48
	12H	20.25	21.38	20.68	21.76	22.19	20.54	21.67	20.97	22.05	22.48
4H	2H	18.68	20.02	19.08	20.37	20.74	18.84	20.18	19.24	20.53	20.90
	3H	20.32	21.43	20.73	21.83	22.23	20.52	21.64	20.93	22.04	22.44
	4H	20.83	21.84	21.26	22.25	22.69	21.05	22.05	21.48	22.46	22.90
	6H	21.12	21.99	21.58	22.43	22.89	21.35	22.22	21.81	22.66	23.12
	8H	21.17	21.98	21.63	22.42	22.89	21.43	22.24	21.89	22.68	23.15
	12H	21.18	21.91	21.66	22.39	22.86	21.48	22.21	21.96	22.69	23.16
8H	4H	21.03	21.84	21.49	22.29	22.75	21.22	22.04	21.69	22.48	22.95
	6H	21.37	22.05	21.87	22.54	23.01	21.59	22.26	22.08	22.75	23.23
	8H	21.45	22.05	21.96	22.56	23.05	21.70	22.30	22.21	22.81	23.30
	12H	21.49	22.02	21.99	22.51	23.07	21.80	22.33	22.31	22.82	23.39
12H	4H	21.03	21.76	21.51	22.24	22.71	21.22	21.95	21.70	22.43	22.90
	6H	21.38	21.98	21.89	22.49	22.98	21.59	22.19	22.10	22.70	23.19
	8H	21.49	22.02	21.99	22.51	23.07	21.74	22.27	22.25	22.76	23.32