

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: P1498662

Luminaire Tested: MAE-G-2-120-3HI-LO-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498662
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-2-120-3HI-LO-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

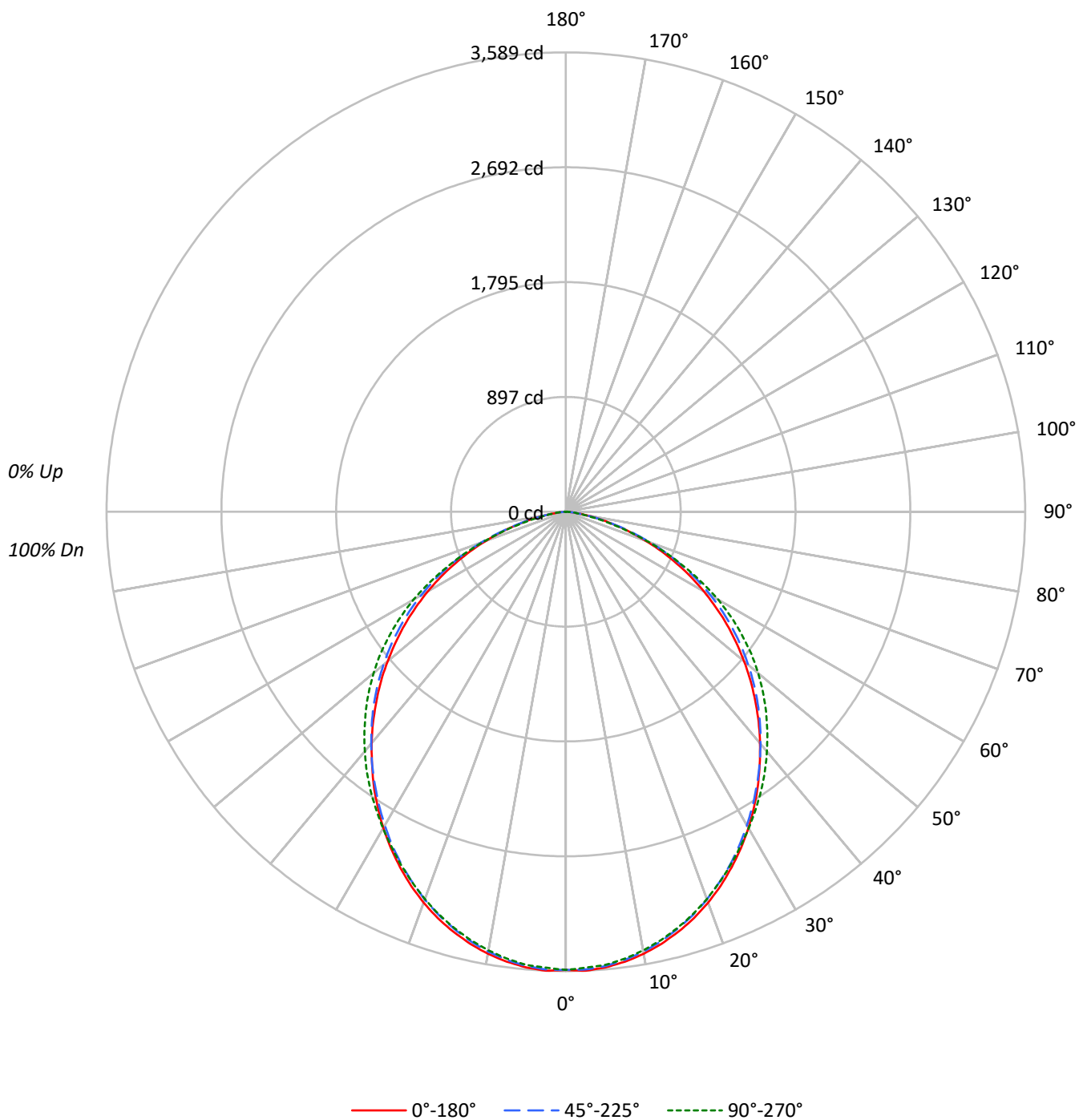
Lumens per Lamp: N/A
Luminaire Lumens: 8880.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 92.3
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
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	93	90		91
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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	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	40	35	60	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9632	9632	9632
5°	9651	9622	9598
10°	9582	9535	9507
15°	9465	9398	9380
20°	9307	9230	9220
25°	9100	9026	9041
30°	8863	8791	8874
35°	8595	8549	8737
40°	8292	8313	8587
45°	7965	8069	8417
50°	7607	7789	8210
55°	7206	7460	7879
60°	6704	7030	7406
65°	6080	6432	6543
70°	5224	5533	5394
75°	4138	4295	3842
80°	2763	2655	2269
85°	1396	1528	1763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8417 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.3	3.8
10°-20°	950.5	10.7
20°-30°	1400.7	15.8
30°-40°	1636.3	18.4
40°-50°	1645.2	18.5
50°-60°	1425.1	16.0
60°-70°	986.8	11.1
70°-80°	430.0	4.8
80°-90°	68.1	0.8
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°	2688.5	30.3
0°-40°	4324.8	48.7
0°-60°	7395.1	83.3
0°-90°	8880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3579	3579	3579	3579	3579	
5°	3573	3556	3562	3549	3553	339
15°	3397	3378	3373	3360	3367	957
25°	3065	3045	3040	3029	3045	1411
35°	2616	2596	2602	2628	2660	1635
45°	2093	2083	2120	2178	2212	1615
55°	1536	1532	1590	1657	1679	1371
65°	955	964	1010	1026	1028	944
75°	398	408	413	386	370	428
85°	45	46	50	55	57	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3579.4	3579.4	3579.4	3579.4	3579.4
2.5°	3589.1	3571.8	3579.4	3569.4	3565.1
5°	3572.6	3555.7	3562.2	3549.1	3553.3
7.5°	3544.8	3527.6	3531.4	3518.0	3522.3
10°	3506.8	3487.6	3489.4	3475.3	3479.1
12.5°	3456.4	3437.6	3437.0	3421.7	3428.5
15°	3397.4	3377.5	3373.3	3360.3	3367.0
17.5°	3328.8	3307.9	3303.6	3287.5	3297.8
20°	3250.0	3228.7	3223.2	3205.8	3219.8
22.5°	3161.9	3140.8	3133.3	3119.9	3134.8
25°	3064.8	3045.0	3040.0	3029.2	3044.9
27.5°	2962.8	2940.9	2937.6	2934.0	2951.1
30°	2852.4	2830.7	2829.3	2832.3	2855.9
32.5°	2735.7	2715.7	2717.6	2732.3	2759.1
35°	2616.3	2595.5	2602.4	2628.5	2659.5
37.5°	2487.7	2472.8	2486.0	2523.5	2555.3
40°	2360.6	2344.8	2366.6	2411.5	2444.4
42.5°	2229.3	2217.2	2244.9	2298.7	2329.9
45°	2092.9	2083.3	2120.4	2177.7	2211.6
47.5°	1959.8	1948.9	1992.7	2054.1	2090.0
50°	1817.0	1811.2	1860.5	1927.1	1961.1
52.5°	1676.7	1670.8	1726.2	1795.6	1827.4
55°	1535.9	1532.1	1590.0	1656.6	1679.4
57.5°	1390.3	1393.8	1451.4	1508.7	1531.7
60°	1245.7	1250.1	1306.3	1356.9	1376.0
62.5°	1101.1	1108.9	1160.1	1198.1	1202.3
65°	954.9	964.4	1010.1	1025.7	1027.5
67.5°	807.6	820.0	858.4	861.3	858.3
70°	664.0	673.6	703.3	697.7	685.6
72.5°	524.6	536.7	551.3	537.3	520.2
75°	398.0	407.5	413.1	386.3	369.5
77.5°	280.0	286.2	282.5	254.4	242.5
80°	178.3	184.2	171.3	154.4	146.4
82.5°	98.7	103.2	92.1	95.0	96.8
85°	45.2	46.5	49.5	55.1	57.1
87.5°	15.5	17.3	19.9	20.9	19.3
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	18.80	20.38	19.16	20.70	21.01	19.37	20.96	19.74	21.27	21.59
	3H	20.24	21.66	20.61	21.99	22.35	20.72	22.15	21.10	22.47	22.83
	4H	20.65	21.98	21.05	22.33	22.71	21.04	22.38	21.44	22.73	23.10
	6H	20.84	22.08	21.25	22.44	22.83	21.15	22.39	21.56	22.75	23.14
	8H	20.86	22.04	21.29	22.43	22.83	21.16	22.34	21.58	22.73	23.13
	12H	20.86	21.99	21.29	22.37	22.80	21.16	22.28	21.59	22.67	23.09
4H	2H	19.41	20.75	19.81	21.09	21.47	19.87	21.21	20.27	21.56	21.93
	3H	21.02	22.13	21.43	22.52	22.93	21.40	22.51	21.81	22.91	23.31
	4H	21.51	22.51	21.94	22.92	23.36	21.80	22.80	22.23	23.21	23.65
	6H	21.78	22.64	22.23	23.09	23.54	21.96	22.83	22.42	23.27	23.73
	8H	21.81	22.62	22.27	23.06	23.53	21.98	22.79	22.45	23.24	23.70
	12H	21.82	22.54	22.30	23.02	23.49	21.99	22.72	22.48	23.20	23.67
8H	4H	21.68	22.49	22.15	22.94	23.40	21.95	22.76	22.41	23.20	23.67
	6H	22.00	22.66	22.49	23.15	23.63	22.15	22.82	22.64	23.31	23.78
	8H	22.05	22.65	22.57	23.16	23.65	22.18	22.78	22.70	23.29	23.78
	12H	22.08	22.61	22.59	23.10	23.66	22.22	22.75	22.73	23.24	23.80
12H	4H	21.68	22.40	22.16	22.88	23.35	21.94	22.66	22.42	23.14	23.61
	6H	21.98	22.58	22.49	23.09	23.58	22.14	22.73	22.65	23.24	23.73
	8H	22.07	22.60	22.58	23.09	23.65	22.20	22.73	22.71	23.22	23.78