

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: P1499574

Luminaire Tested: MAE-G-4-120-3LO-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499574
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-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

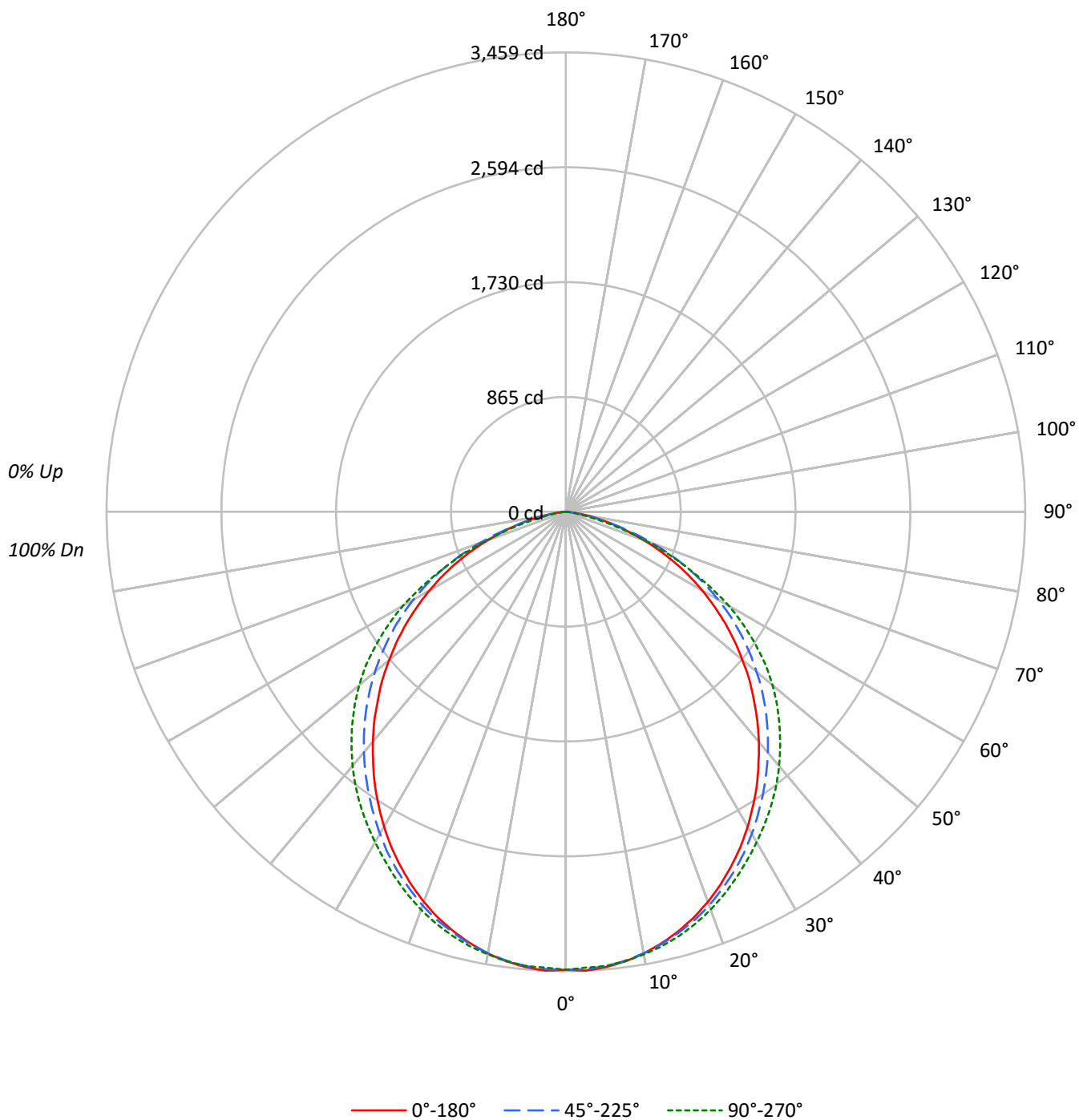
Lumens per Lamp: N/A
Luminaire Lumens: 8738.0 lumens
Efficiency: N/A
Efficacy: 121.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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°	4639	4639	4639
5°	4649	4639	4637
10°	4614	4612	4623
15°	4556	4570	4604
20°	4476	4517	4564
25°	4373	4442	4512
30°	4254	4351	4465
35°	4120	4251	4431
40°	3971	4155	4386
45°	3809	4053	4330
50°	3632	3928	4253
55°	3437	3776	4090
60°	3190	3567	3816
65°	2880	3253	3268
70°	2458	2731	2540
75°	1931	1993	1563
80°	1260	1025	605
85°	604	406	321

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4330 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	3.7
10°-20°	924.6	10.6
20°-30°	1375.1	15.7
30°-40°	1620.3	18.5
40°-50°	1642.9	18.8
50°-60°	1431.6	16.4
60°-70°	979.0	11.2
70°-80°	393.3	4.5
80°-90°	45.6	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°	2625.3	30.0
0°-40°	4245.6	48.6
0°-60°	7320.1	83.8
0°-90°	8738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3448	3448	3448	3448	3448	
5°	3442	3421	3435	3431	3433	326
15°	3270	3256	3281	3294	3305	921
25°	2945	2946	2992	3014	3039	1356
35°	2508	2520	2588	2652	2697	1567
45°	2002	2029	2130	2226	2276	1545
55°	1465	1496	1610	1711	1743	1308
65°	905	945	1022	1030	1027	895
75°	371	396	383	329	301	399
85°	39	35	26	23	21	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3447.6	3447.6	3447.6	3447.6	3447.6
2.5°	3458.7	3435.6	3447.6	3445.1	3436.3
5°	3442.0	3421.2	3434.7	3430.9	3433.2
7.5°	3414.8	3395.8	3410.1	3409.4	3413.2
10°	3377.5	3358.3	3375.9	3379.1	3383.8
12.5°	3328.0	3312.1	3333.6	3340.0	3349.5
15°	3270.5	3256.3	3280.9	3294.5	3304.9
17.5°	3203.6	3191.6	3223.5	3236.4	3250.6
20°	3126.2	3117.6	3155.0	3166.9	3187.7
22.5°	3040.3	3035.5	3074.4	3092.8	3116.7
25°	2945.3	2946.2	2992.3	3014.0	3039.4
27.5°	2845.8	2847.3	2900.0	2930.1	2957.3
30°	2738.1	2742.9	2800.3	2837.8	2873.6
32.5°	2624.1	2633.6	2695.8	2746.9	2786.7
35°	2508.5	2519.6	2588.3	2652.0	2697.4
37.5°	2383.4	2401.8	2479.1	2554.9	2601.7
40°	2260.6	2279.0	2365.8	2449.5	2497.4
42.5°	2134.0	2157.0	2249.5	2342.7	2388.9
45°	2001.6	2028.6	2129.9	2225.6	2275.8
47.5°	1874.8	1898.8	2005.5	2105.2	2157.0
50°	1735.3	1765.6	1876.4	1980.9	2032.0
52.5°	1602.2	1630.1	1744.1	1851.0	1897.2
55°	1465.2	1496.2	1609.5	1710.6	1743.4
57.5°	1324.7	1362.3	1471.5	1556.1	1587.1
60°	1185.4	1222.7	1325.6	1395.0	1418.1
62.5°	1046.5	1086.5	1176.6	1222.7	1222.7
65°	904.7	945.4	1021.9	1029.8	1026.6
67.5°	762.9	803.6	861.7	847.3	837.8
70°	624.9	660.0	694.3	667.9	645.7
72.5°	491.0	524.5	530.1	491.9	463.9
75°	371.4	396.2	383.4	329.3	300.6
77.5°	259.0	273.4	246.3	191.3	168.3
80°	162.6	169.0	132.3	93.2	78.1
82.5°	87.7	88.4	57.4	47.0	43.9
85°	39.1	35.1	26.3	23.1	20.8
87.5°	13.6	12.0	9.5	8.8	7.2
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	16.26	17.84	16.62	18.15	18.47	17.24	18.82	17.61	19.14	19.45
	3H	17.67	19.09	18.04	19.42	19.78	18.45	19.87	18.82	20.19	20.55
	4H	18.06	19.40	18.46	19.74	20.12	18.66	20.00	19.06	20.34	20.72
	6H	18.24	19.47	18.65	19.83	20.22	18.68	19.91	19.09	20.28	20.67
	8H	18.25	19.42	18.68	19.81	20.21	18.66	19.83	19.08	20.22	20.62
	12H	18.24	19.36	18.67	19.75	20.18	18.63	19.75	19.06	20.14	20.57
4H	2H	16.93	18.26	17.33	18.61	18.99	17.72	19.05	18.12	19.40	19.78
	3H	18.50	19.60	18.91	20.00	20.40	19.09	20.19	19.50	20.59	20.99
	4H	18.97	19.97	19.41	20.38	20.82	19.36	20.35	19.79	20.77	21.21
	6H	19.21	20.07	19.67	20.52	20.97	19.41	20.27	19.87	20.72	21.17
	8H	19.24	20.04	19.70	20.48	20.95	19.39	20.19	19.85	20.64	21.10
	12H	19.24	19.96	19.72	20.43	20.90	19.37	20.09	19.85	20.56	21.03
8H	4H	19.12	19.92	19.58	20.37	20.83	19.48	20.28	19.94	20.73	21.19
	6H	19.39	20.06	19.89	20.55	21.02	19.54	20.20	20.03	20.69	21.17
	8H	19.43	20.03	19.95	20.53	21.02	19.52	20.11	20.03	20.62	21.10
	12H	19.45	19.97	19.96	20.46	21.03	19.50	20.02	20.01	20.52	21.08
12H	4H	19.10	19.82	19.58	20.30	20.77	19.47	20.19	19.95	20.66	21.13
	6H	19.36	19.96	19.88	20.47	20.95	19.52	20.11	20.03	20.62	21.11
	8H	19.43	19.95	19.94	20.44	21.01	19.52	20.04	20.03	20.53	21.09