

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: P1499568

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499568
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-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

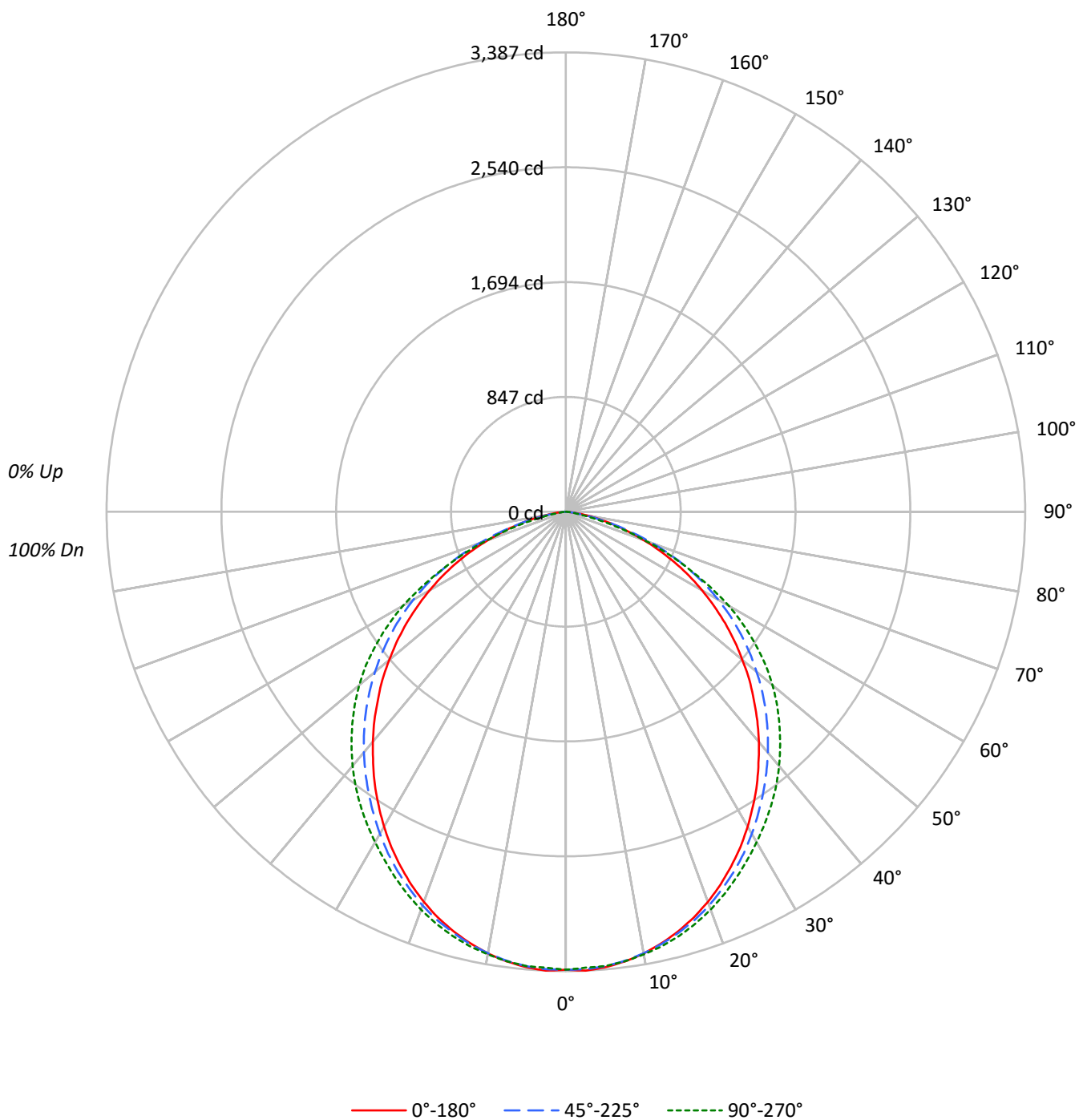
Lumens per Lamp: N/A
Luminaire Lumens: 8556.0 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1499568

CATALOG NUMBER: MAE-G-4-120-3LO-35-90

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°	4542	4542	4542
5°	4552	4542	4540
10°	4518	4516	4527
15°	4461	4475	4508
20°	4383	4423	4469
25°	4282	4350	4418
30°	4165	4260	4371
35°	4035	4163	4338
40°	3888	4069	4295
45°	3730	3968	4240
50°	3557	3846	4165
55°	3365	3697	4004
60°	3123	3493	3737
65°	2820	3186	3201
70°	2407	2675	2487
75°	1891	1952	1530
80°	1234	1004	592
85°	591	397	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4240 cd/sqm

TEST NUMBER: P1499568

CATALOG NUMBER: MAE-G-4-120-3LO-35-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.9	3.7
10°-20°	905.3	10.6
20°-30°	1346.4	15.7
30°-40°	1586.6	18.5
40°-50°	1608.6	18.8
50°-60°	1401.7	16.4
60°-70°	958.7	11.2
70°-80°	385.1	4.5
80°-90°	44.6	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°	2570.6	30.0
0°-40°	4157.2	48.6
0°-60°	7167.6	83.8
0°-90°	8556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3376	3376	3376	3376	3376	
5°	3370	3350	3363	3359	3362	320
15°	3202	3188	3213	3226	3236	902
25°	2884	2885	2930	2951	2976	1328
35°	2456	2467	2534	2597	2641	1534
45°	1960	1986	2086	2179	2228	1513
55°	1435	1465	1576	1675	1707	1281
65°	886	926	1001	1008	1005	876
75°	364	388	375	322	294	391
85°	38	34	26	23	20	59
90°	0	0	0	0	0	

TEST NUMBER: P1499568

CATALOG NUMBER: MAE-G-4-120-3LO-35-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3375.8	3375.8	3375.8	3375.8	3375.8
2.5°	3386.7	3364.1	3375.8	3373.4	3364.8
5°	3370.3	3349.9	3363.2	3359.4	3361.7
7.5°	3343.7	3325.1	3339.1	3338.4	3342.2
10°	3307.1	3288.3	3305.6	3308.7	3313.3
12.5°	3258.7	3243.1	3264.2	3270.4	3279.7
15°	3202.4	3188.4	3212.6	3225.9	3236.1
17.5°	3136.9	3125.1	3156.4	3169.0	3182.9
20°	3061.1	3052.7	3089.2	3101.0	3121.3
22.5°	2976.9	2972.3	3010.4	3028.3	3051.8
25°	2884.0	2884.8	2930.0	2951.2	2976.1
27.5°	2786.5	2788.0	2839.6	2869.1	2895.7
30°	2681.1	2685.7	2742.0	2778.7	2813.7
32.5°	2569.5	2578.8	2639.7	2689.7	2728.7
35°	2456.3	2467.2	2534.4	2596.7	2641.2
37.5°	2333.8	2351.7	2427.5	2501.7	2547.5
40°	2213.6	2231.5	2316.5	2398.5	2445.4
42.5°	2089.5	2112.1	2202.7	2293.9	2339.1
45°	1960.0	1986.4	2085.5	2179.2	2228.4
47.5°	1835.7	1859.2	1963.8	2061.4	2112.1
50°	1699.1	1728.8	1837.3	1939.6	1989.6
52.5°	1568.9	1596.1	1707.7	1812.5	1857.7
55°	1434.6	1465.0	1575.9	1675.0	1707.0
57.5°	1297.1	1333.9	1440.9	1523.7	1554.0
60°	1160.7	1197.3	1298.0	1366.0	1388.6
62.5°	1024.7	1063.9	1152.1	1197.3	1197.3
65°	885.9	925.7	1000.6	1008.4	1005.3
67.5°	747.0	786.8	843.8	829.6	820.3
70°	611.9	646.2	679.9	654.0	632.3
72.5°	480.8	513.6	519.1	481.7	454.2
75°	363.7	388.0	375.4	322.4	294.3
77.5°	253.6	267.7	241.2	187.4	164.8
80°	159.2	165.4	129.6	91.3	76.4
82.5°	85.9	86.6	56.2	46.1	43.0
85°	38.3	34.3	25.7	22.6	20.4
87.5°	13.3	11.7	9.3	8.6	7.1
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	16.18	17.77	16.55	18.08	18.40	17.17	18.75	17.53	19.07	19.38
	3H	17.59	19.02	17.97	19.34	19.70	18.37	19.79	18.75	20.12	20.48
	4H	17.99	19.32	18.39	19.67	20.05	18.59	19.92	18.99	20.27	20.65
	6H	18.16	19.39	18.57	19.76	20.15	18.61	19.84	19.02	20.20	20.59
	8H	18.18	19.35	18.60	19.74	20.14	18.58	19.76	19.01	20.15	20.55
	12H	18.17	19.29	18.60	19.67	20.10	18.56	19.68	18.99	20.06	20.49
4H	2H	16.86	18.19	17.25	18.54	18.91	17.65	18.98	18.04	19.33	19.70
	3H	18.42	19.53	18.83	19.93	20.33	19.02	20.12	19.43	20.52	20.92
	4H	18.90	19.89	19.33	20.31	20.75	19.29	20.28	19.72	20.70	21.13
	6H	19.14	20.00	19.60	20.44	20.90	19.34	20.20	19.79	20.64	21.10
	8H	19.16	19.97	19.63	20.41	20.88	19.31	20.12	19.78	20.56	21.03
	12H	19.16	19.88	19.64	20.36	20.83	19.29	20.01	19.78	20.49	20.96
8H	4H	19.05	19.85	19.51	20.29	20.76	19.41	20.21	19.87	20.65	21.12
	6H	19.32	19.98	19.82	20.47	20.95	19.47	20.13	19.96	20.62	21.09
	8H	19.36	19.95	19.87	20.46	20.95	19.44	20.04	19.96	20.54	21.03
	12H	19.38	19.90	19.88	20.39	20.95	19.43	19.95	19.94	20.44	21.01
12H	4H	19.03	19.75	19.51	20.22	20.69	19.39	20.11	19.88	20.59	21.06
	6H	19.29	19.88	19.80	20.39	20.88	19.44	20.04	19.96	20.54	21.03
	8H	19.36	19.88	19.87	20.37	20.93	19.44	19.97	19.95	20.46	21.02