

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: P1499136

Luminaire Tested: MAE-G-4-120-1STD-LO-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499136
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-LO-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

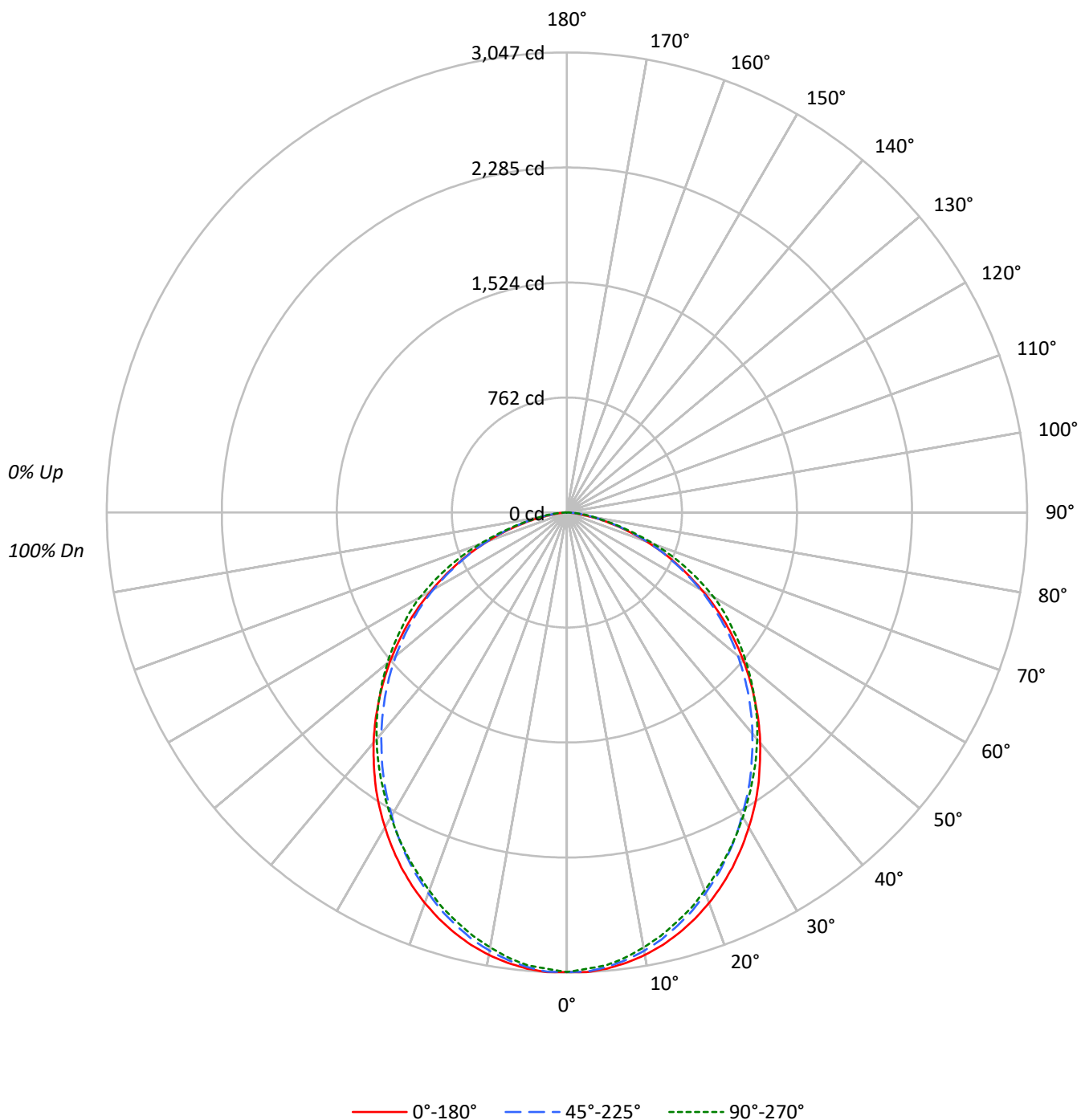
Lumens per Lamp: N/A
Luminaire Lumens: 7331.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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

TEST NUMBER: P1499136

CATALOG NUMBER: MAE-G-4-120-1STD-LO-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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4095	4095	4095
5°	4096	4081	4065
10°	4066	4027	3997
15°	4013	3945	3912
20°	3940	3842	3816
25°	3851	3730	3718
30°	3742	3603	3619
35°	3628	3484	3528
40°	3497	3356	3443
45°	3350	3230	3347
50°	3194	3093	3247
55°	3014	2931	3136
60°	2791	2745	3029
65°	2535	2495	2783
70°	2196	2223	2430
75°	1746	1856	1917
80°	1202	1382	1446
85°	668	1020	1295

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3350 cd/sqm

TEST NUMBER: P1499136

CATALOG NUMBER: MAE-G-4-120-1STD-LO-35-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.9	3.9
10°-20°	799.0	10.9
20°-30°	1164.2	15.9
30°-40°	1343.6	18.3
40°-50°	1333.4	18.2
50°-60°	1143.9	15.6
60°-70°	802.9	11.0
70°-80°	379.7	5.2
80°-90°	78.6	1.1
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°	2249.0	30.7
0°-40°	3592.6	49.0
0°-60°	6069.9	82.8
0°-90°	7331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3044	3044	3044	3044	3044	
5°	3033	3030	3022	3003	3010	288
15°	2881	2868	2832	2803	2808	812
25°	2594	2562	2513	2493	2504	1194
35°	2209	2167	2121	2128	2148	1380
45°	1760	1724	1697	1734	1759	1358
55°	1285	1252	1250	1302	1337	1147
65°	796	771	784	847	874	788
75°	336	325	357	372	369	363
85°	43	52	66	79	84	61
90°	0	0	0	0	0	

TEST NUMBER: P1499136

CATALOG NUMBER: MAE-G-4-120-1STD-LO-35-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3043.5	3043.5	3043.5	3043.5	3043.5
2.5°	3047.1	3049.3	3043.5	3021.9	3024.8
5°	3032.7	3029.9	3021.9	3003.3	3009.7
7.5°	3008.2	3004.6	2990.3	2968.8	2973.2
10°	2975.7	2968.4	2947.8	2921.3	2925.6
12.5°	2933.8	2924.6	2895.9	2866.8	2871.8
15°	2881.0	2867.5	2831.8	2802.7	2808.5
17.5°	2820.4	2806.0	2763.4	2732.2	2743.1
20°	2751.8	2731.8	2683.4	2655.1	2665.4
22.5°	2676.6	2651.0	2601.2	2575.2	2584.7
25°	2593.7	2562.3	2512.7	2493.0	2504.1
27.5°	2504.0	2470.0	2420.3	2403.7	2419.1
30°	2408.7	2372.3	2319.3	2312.8	2329.6
32.5°	2311.2	2272.9	2221.2	2222.7	2239.5
35°	2208.8	2166.7	2121.0	2127.5	2148.0
37.5°	2099.1	2059.3	2014.8	2035.2	2055.0
40°	1990.8	1949.5	1910.9	1937.8	1960.5
42.5°	1878.3	1839.0	1805.5	1836.8	1863.1
45°	1760.5	1724.4	1697.3	1733.6	1759.1
47.5°	1642.8	1606.6	1588.3	1628.2	1657.3
50°	1526.0	1491.9	1477.8	1522.7	1551.3
52.5°	1404.1	1371.3	1366.0	1412.3	1446.6
55°	1284.9	1251.5	1249.6	1301.6	1336.8
57.5°	1162.2	1136.9	1136.2	1193.2	1235.6
60°	1037.3	1011.9	1020.0	1087.1	1125.6
62.5°	916.0	890.6	900.0	974.1	999.5
65°	796.4	770.7	783.6	846.7	874.2
67.5°	678.8	654.5	676.6	733.8	751.0
70°	558.2	536.9	565.2	611.3	617.7
72.5°	445.6	427.1	461.1	489.7	488.8
75°	335.9	325.4	357.0	372.5	368.7
77.5°	240.1	234.4	261.5	269.1	266.0
80°	155.1	158.7	178.4	183.2	186.6
82.5°	90.1	97.2	112.1	128.5	132.1
85°	43.3	51.8	66.1	79.0	83.9
87.5°	15.0	20.7	27.3	30.2	29.4
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	15.67	17.25	16.04	17.57	17.88	16.03	17.62	16.40	17.93	18.25
	3H	17.11	18.53	17.48	18.86	19.22	17.62	19.05	18.00	19.37	19.73
	4H	17.53	18.86	17.93	19.21	19.59	18.07	19.41	18.47	19.76	20.14
	6H	17.74	18.98	18.15	19.34	19.73	18.32	19.55	18.73	19.92	20.31
	8H	17.77	18.95	18.20	19.34	19.74	18.38	19.56	18.81	19.95	20.35
	12H	17.77	18.90	18.20	19.28	19.71	18.43	19.55	18.86	19.94	20.37
4H	2H	16.20	17.54	16.60	17.89	18.27	16.50	17.84	16.90	18.19	18.56
	3H	17.82	18.94	18.23	19.33	19.73	18.29	19.40	18.70	19.80	20.20
	4H	18.33	19.33	18.76	19.74	20.18	18.85	19.85	19.28	20.26	20.70
	6H	18.62	19.49	19.07	19.93	20.39	19.18	20.05	19.64	20.50	20.95
	8H	18.67	19.48	19.13	19.93	20.39	19.28	20.09	19.74	20.53	21.00
	12H	18.69	19.42	19.17	19.89	20.36	19.35	20.08	19.83	20.56	21.03
8H	4H	18.54	19.36	19.00	19.80	20.27	19.01	19.83	19.48	20.27	20.74
	6H	18.89	19.57	19.39	20.06	20.53	19.42	20.09	19.91	20.58	21.06
	8H	18.98	19.58	19.49	20.09	20.58	19.56	20.16	20.07	20.67	21.16
	12H	19.03	19.56	19.53	20.05	20.61	19.69	20.22	20.20	20.71	21.27
12H	4H	18.55	19.28	19.03	19.75	20.23	19.01	19.74	19.49	20.22	20.69
	6H	18.91	19.51	19.42	20.02	20.51	19.42	20.02	19.93	20.53	21.02
	8H	19.03	19.56	19.54	20.05	20.62	19.60	20.13	20.11	20.63	21.19