

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: P1499388

Luminaire Tested: MAE-G-4-120-2STD-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

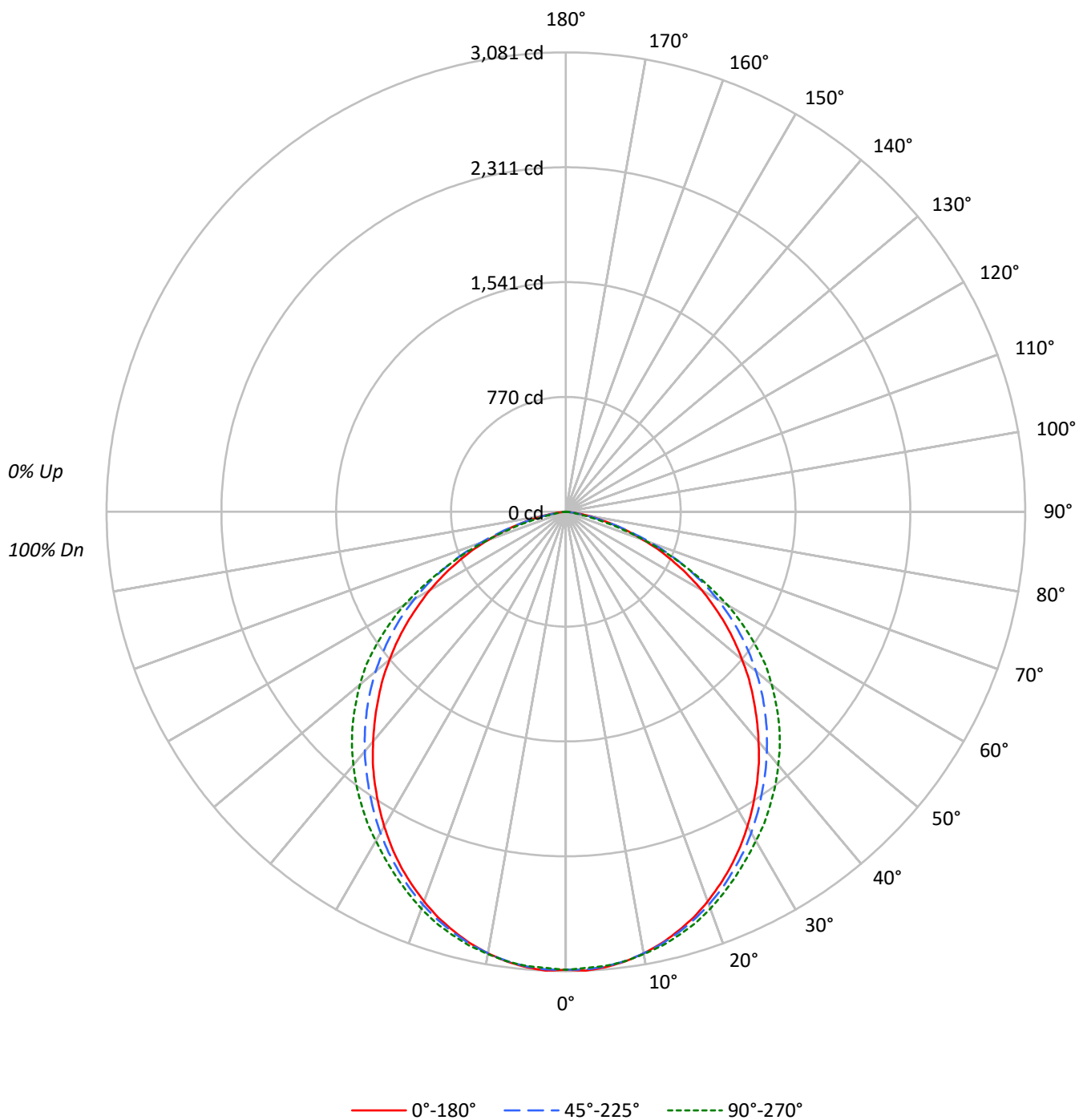
Lumens per Lamp: N/A
Luminaire Lumens: 7755.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
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	102	98	107	103	100	97	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	58	69	62	57		67	61	56		65
5	78	65	57	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	45	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°	4133	4133	4133
5°	4141	4134	4130
10°	4109	4109	4115
15°	4054	4069	4093
20°	3982	4015	4057
25°	3893	3945	4004
30°	3786	3864	3961
35°	3667	3770	3931
40°	3531	3685	3893
45°	3387	3593	3851
50°	3230	3485	3773
55°	3052	3345	3632
60°	2835	3158	3372
65°	2557	2869	2886
70°	2183	2388	2232
75°	1714	1730	1394
80°	1115	890	534
85°	516	338	275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3851 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	3.7
10°-20°	823.0	10.6
20°-30°	1222.5	15.8
30°-40°	1440.0	18.6
40°-50°	1458.9	18.8
50°-60°	1269.8	16.4
60°-70°	865.2	11.2
70°-80°	345.9	4.5
80°-90°	39.6	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°	2335.7	30.1
0°-40°	3775.6	48.7
0°-60°	6504.3	83.9
0°-90°	7755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3072	3072	3072	3072	3072	
5°	3066	3048	3061	3057	3058	291
15°	2910	2898	2921	2932	2939	820
25°	2622	2624	2657	2679	2697	1207
35°	2232	2243	2295	2356	2393	1395
45°	1780	1802	1888	1977	2024	1374
55°	1301	1329	1426	1516	1548	1162
65°	803	841	901	902	907	796
75°	330	350	333	286	268	355
85°	33	30	22	20	18	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3072.1	3072.1	3072.1	3072.1	3072.1
2.5°	3080.7	3060.8	3072.1	3070.1	3061.8
5°	3065.9	3048.2	3060.8	3056.7	3057.6
7.5°	3041.9	3025.3	3038.9	3037.8	3041.0
10°	3007.6	2991.0	3007.6	3008.5	3011.7
12.5°	2964.7	2950.2	2970.0	2974.1	2981.5
15°	2910.5	2898.1	2920.9	2931.5	2938.6
17.5°	2852.2	2843.9	2866.7	2880.3	2891.8
20°	2781.2	2777.0	2804.2	2817.6	2833.3
22.5°	2703.9	2701.8	2734.3	2751.0	2766.6
25°	2622.5	2623.7	2657.1	2679.0	2696.8
27.5°	2532.8	2534.9	2575.7	2601.8	2623.7
30°	2436.9	2442.2	2486.9	2522.5	2549.7
32.5°	2335.7	2345.1	2393.1	2442.2	2476.6
35°	2232.4	2243.0	2295.1	2355.5	2393.1
37.5°	2126.1	2137.6	2198.0	2269.1	2308.7
40°	2010.4	2027.9	2098.0	2176.1	2216.7
42.5°	1896.5	1916.3	1994.7	2080.2	2124.0
45°	1779.8	1801.7	1888.2	1976.9	2023.7
47.5°	1667.0	1685.7	1778.6	1871.6	1913.3
50°	1543.0	1567.9	1665.0	1757.9	1802.6
52.5°	1424.0	1448.0	1547.1	1641.9	1688.0
55°	1300.9	1329.0	1426.1	1515.8	1548.1
57.5°	1176.8	1209.1	1303.0	1377.0	1405.1
60°	1053.7	1086.0	1173.6	1231.9	1252.9
62.5°	929.4	962.9	1040.1	1075.6	1079.8
65°	803.3	840.9	901.3	902.5	906.6
67.5°	683.4	714.5	758.4	745.9	739.7
70°	555.0	589.3	607.1	582.2	567.4
72.5°	441.3	466.2	463.2	426.6	409.0
75°	329.7	349.5	332.7	285.9	268.2
77.5°	228.5	245.1	211.7	167.9	150.3
80°	143.9	151.3	114.8	81.4	68.9
82.5°	77.2	76.1	49.1	40.6	37.6
85°	33.4	30.2	21.9	19.8	17.8
87.5°	11.5	10.4	8.3	7.4	6.2
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	15.85	17.43	16.21	17.74	18.06	16.81	18.39	17.17	18.70	19.02
	3H	17.27	18.69	17.64	19.01	19.38	18.00	19.42	18.37	19.74	20.11
	4H	17.66	18.99	18.06	19.34	19.72	18.21	19.54	18.61	19.89	20.27
	6H	17.83	19.07	18.25	19.43	19.82	18.23	19.46	18.64	19.83	20.22
	8H	17.85	19.02	18.27	19.41	19.81	18.21	19.38	18.63	19.77	20.17
	12H	17.84	18.96	18.27	19.34	19.77	18.18	19.30	18.61	19.69	20.11
4H	2H	16.51	17.84	16.91	18.19	18.57	17.28	18.61	17.68	18.96	19.34
	3H	18.09	19.19	18.50	19.59	19.99	18.63	19.74	19.04	20.13	20.53
	4H	18.56	19.55	18.99	19.97	20.41	18.90	19.89	19.33	20.31	20.74
	6H	18.80	19.66	19.26	20.10	20.56	18.95	19.81	19.41	20.25	20.71
	8H	18.82	19.63	19.29	20.07	20.54	18.93	19.73	19.39	20.17	20.64
	12H	18.82	19.54	19.30	20.02	20.49	18.91	19.62	19.39	20.10	20.57
8H	4H	18.70	19.50	19.16	19.94	20.41	19.01	19.82	19.48	20.26	20.73
	6H	18.97	19.63	19.47	20.12	20.60	19.07	19.73	19.57	20.22	20.70
	8H	19.01	19.60	19.52	20.11	20.60	19.05	19.64	19.56	20.15	20.64
	12H	19.02	19.54	19.53	20.04	20.60	19.03	19.56	19.54	20.05	20.61
12H	4H	18.68	19.40	19.16	19.87	20.34	19.00	19.72	19.48	20.20	20.67
	6H	18.94	19.54	19.46	20.04	20.53	19.05	19.64	19.56	20.15	20.64
	8H	19.01	19.53	19.52	20.02	20.58	19.05	19.57	19.56	20.06	20.63