

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: P1498848

Luminaire Tested: MAE-G-2-120-3STD-LO-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498848
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-2-120-3STD-LO-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

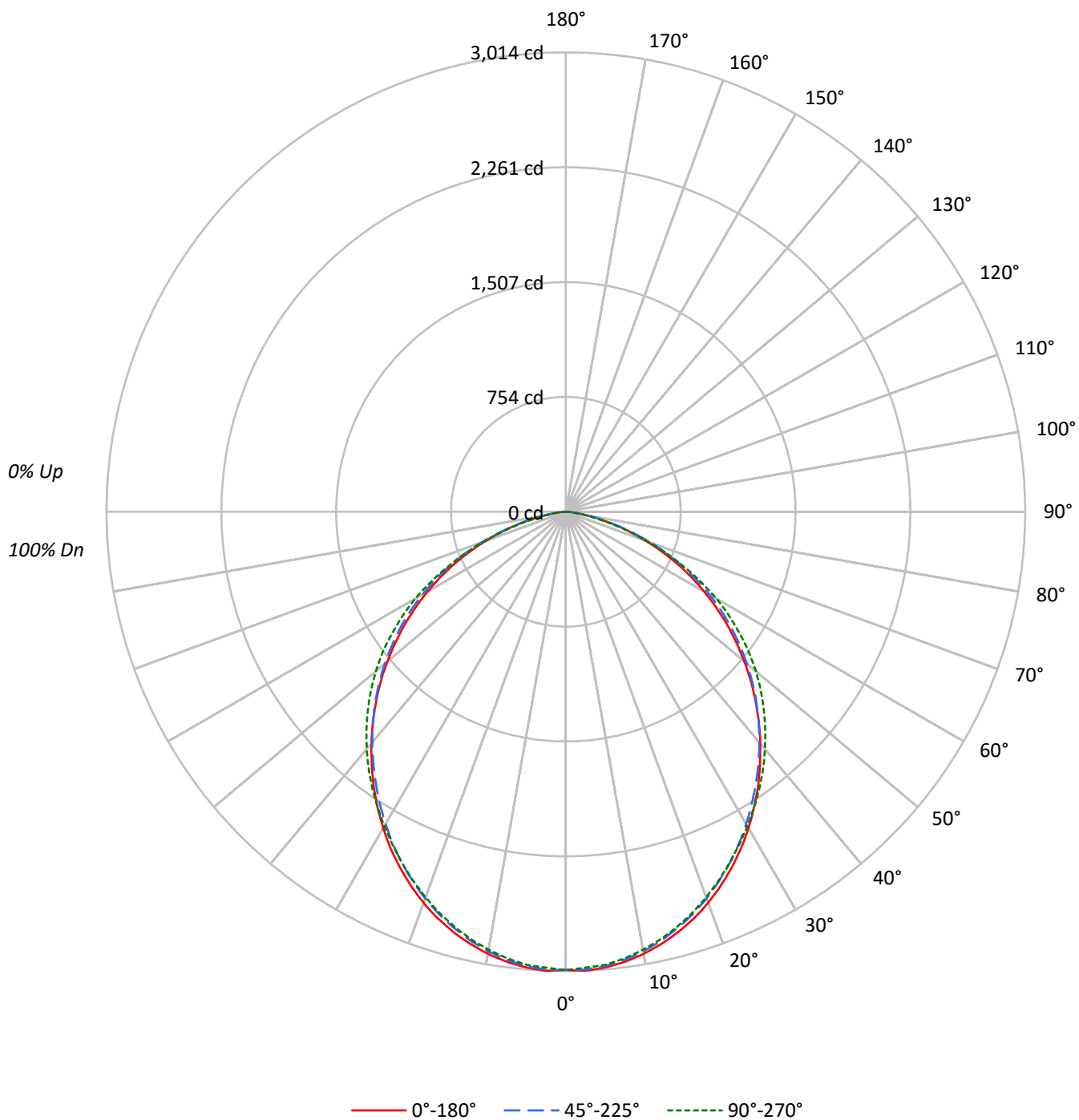
Lumens per Lamp: N/A
Luminaire Lumens: 7432.0 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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	92	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	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8091	8091	8091
5°	8106	8081	8058
10°	8049	8003	7972
15°	7951	7881	7854
20°	7819	7732	7709
25°	7646	7554	7548
30°	7448	7351	7399
35°	7225	7142	7274
40°	6972	6939	7140
45°	6698	6730	6989
50°	6399	6491	6809
55°	6062	6213	6533
60°	5643	5853	6148
65°	5121	5358	5461
70°	4404	4629	4548
75°	3493	3630	3310
80°	2342	2303	2047
85°	1192	1380	1633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6989 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	3.8
10°-20°	797.0	10.7
20°-30°	1172.8	15.8
30°-40°	1368.0	18.4
40°-50°	1373.5	18.5
50°-60°	1188.5	16.0
60°-70°	824.8	11.1
70°-80°	364.2	4.9
80°-90°	60.1	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°	2253.0	30.3
0°-40°	3621.0	48.7
0°-60°	6183.0	83.2
0°-90°	7432.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7432.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3007	3007	3007	3007	3007	
5°	3001	2987	2992	2979	2983	285
15°	2854	2836	2829	2814	2819	804
25°	2575	2556	2544	2530	2542	1186
35°	2199	2177	2174	2190	2214	1374
45°	1760	1747	1768	1811	1837	1358
55°	1292	1284	1324	1375	1392	1153
65°	804	808	841	856	858	795
75°	336	342	349	331	318	361
85°	39	40	45	51	53	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3006.6	3006.6	3006.6	3006.6	3006.6
2.5°	3014.4	3000.8	3006.6	2997.1	2994.1
5°	3000.7	2987.1	2991.6	2979.3	2983.0
7.5°	2977.4	2963.3	2964.9	2952.0	2955.6
10°	2945.6	2929.5	2928.7	2914.5	2917.6
12.5°	2903.4	2887.3	2883.6	2867.6	2873.0
15°	2853.9	2836.5	2828.8	2814.1	2819.2
17.5°	2796.4	2777.8	2768.8	2751.3	2759.2
20°	2730.4	2710.9	2700.1	2681.2	2691.9
22.5°	2656.5	2636.6	2623.7	2607.9	2619.0
25°	2575.3	2555.7	2544.1	2530.4	2542.1
27.5°	2489.7	2468.1	2457.3	2449.3	2462.1
30°	2397.1	2375.3	2365.6	2363.1	2381.1
32.5°	2299.4	2278.4	2271.3	2278.3	2298.8
35°	2199.2	2177.2	2174.0	2190.4	2214.2
37.5°	2091.4	2074.1	2075.9	2101.6	2125.9
40°	1984.7	1966.6	1975.3	2007.2	2032.5
42.5°	1874.4	1859.2	1873.0	1912.2	1936.0
45°	1760.0	1746.7	1768.4	1810.6	1836.6
47.5°	1648.0	1633.8	1661.3	1706.9	1734.7
50°	1528.4	1518.3	1550.6	1600.7	1626.5
52.5°	1410.3	1400.3	1438.1	1490.6	1515.1
55°	1292.0	1283.9	1324.3	1374.9	1392.4
57.5°	1169.9	1167.9	1208.6	1252.4	1270.4
60°	1048.5	1047.4	1087.5	1126.9	1142.4
62.5°	926.9	928.7	965.9	996.4	1000.6
65°	804.3	807.6	841.4	855.5	857.6
67.5°	680.6	686.9	716.1	720.9	719.3
70°	559.8	564.1	588.4	586.6	578.1
72.5°	442.6	449.7	463.1	455.0	442.4
75°	336.0	341.8	349.1	330.7	318.4
77.5°	236.7	240.7	241.0	221.5	213.2
80°	151.1	155.9	148.6	137.7	132.1
82.5°	83.9	88.2	82.0	86.2	88.4
85°	38.6	40.5	44.7	50.6	52.9
87.5°	13.2	15.2	18.2	19.2	17.8
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	18.19	19.78	18.56	20.09	20.41	18.70	20.28	19.06	20.60	20.91
	3H	19.64	21.06	20.01	21.39	21.75	20.07	21.50	20.45	21.82	22.18
	4H	20.05	21.39	20.45	21.74	22.11	20.41	21.75	20.81	22.10	22.47
	6H	20.25	21.48	20.66	21.85	22.24	20.54	21.78	20.95	22.14	22.53
	8H	20.27	21.45	20.70	21.84	22.24	20.56	21.73	20.98	22.12	22.52
	12H	20.27	21.39	20.70	21.78	22.20	20.56	21.69	20.99	22.07	22.50
4H	2H	18.79	20.13	19.19	20.48	20.86	19.20	20.54	19.60	20.89	21.26
	3H	20.41	21.52	20.82	21.92	22.32	20.76	21.87	21.17	22.27	22.67
	4H	20.91	21.91	21.34	22.32	22.76	21.18	22.18	21.61	22.59	23.03
	6H	21.18	22.04	21.63	22.49	22.94	21.37	22.24	21.82	22.68	23.14
	8H	21.21	22.02	21.67	22.47	22.93	21.40	22.21	21.86	22.65	23.12
	12H	21.22	21.95	21.70	22.42	22.89	21.42	22.14	21.90	22.62	23.09
8H	4H	21.08	21.89	21.55	22.34	22.80	21.33	22.14	21.79	22.59	23.05
	6H	21.40	22.07	21.90	22.56	23.04	21.56	22.23	22.06	22.72	23.20
	8H	21.46	22.06	21.97	22.57	23.06	21.61	22.21	22.12	22.72	23.21
	12H	21.49	22.02	22.00	22.51	23.07	21.66	22.18	22.16	22.68	23.24
12H	4H	21.08	21.80	21.56	22.28	22.75	21.33	22.05	21.81	22.53	23.00
	6H	21.39	21.99	21.90	22.50	22.99	21.55	22.15	22.06	22.66	23.15
	8H	21.48	22.01	21.99	22.50	23.06	21.63	22.16	22.14	22.65	23.21