

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: P1498584

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498584
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-2-120-2STD-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

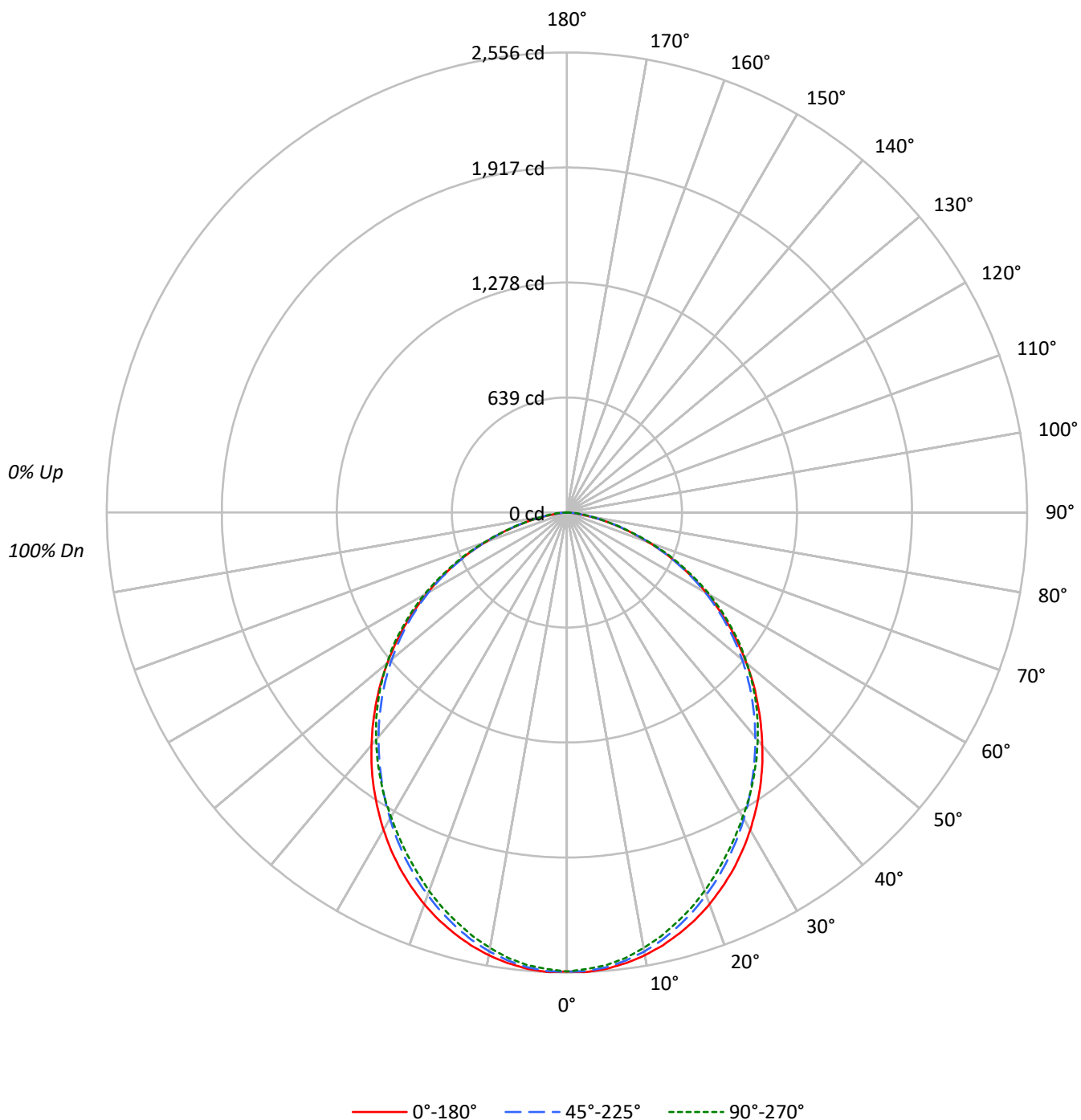
Lumens per Lamp: N/A
Luminaire Lumens: 6197.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.6
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	81	98	90	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6863	6863	6863
5°	6873	6850	6819
10°	6825	6767	6713
15°	6741	6637	6568
20°	6632	6477	6406
25°	6493	6299	6228
30°	6328	6106	6069
35°	6143	5906	5931
40°	5930	5717	5791
45°	5701	5524	5645
50°	5452	5316	5462
55°	5164	5070	5235
60°	4819	4764	4939
65°	4383	4360	4490
70°	3787	3817	3886
75°	3020	3109	3096
80°	2049	2183	2219
85°	1056	1479	1899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5701 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	3.9
10°-20°	671.2	10.8
20°-30°	980.6	15.8
30°-40°	1136.4	18.3
40°-50°	1133.6	18.3
50°-60°	976.0	15.7
60°-70°	681.9	11.0
70°-80°	317.1	5.1
80°-90°	60.4	1.0
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°	1891.5	30.5
0°-40°	3028.0	48.9
0°-60°	5137.6	82.9
0°-90°	6197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6197.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2550	2550	2550	2550	2550	
5°	2544	2535	2536	2521	2524	241
15°	2420	2403	2382	2356	2358	682
25°	2187	2161	2122	2095	2098	1007
35°	1870	1836	1798	1794	1805	1169
45°	1498	1468	1452	1469	1483	1156
55°	1101	1077	1081	1105	1116	983
65°	688	676	685	698	705	681
75°	290	286	299	298	298	312
85°	34	39	48	58	62	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2550.4	2550.4	2550.4	2550.4	2550.4
2.5°	2555.5	2547.5	2550.4	2538.8	2538.3
5°	2544.4	2535.4	2535.9	2520.8	2524.2
7.5°	2524.8	2514.3	2510.7	2493.5	2496.5
10°	2497.7	2484.6	2476.5	2455.2	2456.8
12.5°	2462.9	2448.0	2434.2	2409.5	2412.0
15°	2419.8	2402.8	2382.3	2356.2	2357.5
17.5°	2372.2	2353.5	2325.1	2297.3	2301.2
20°	2315.9	2295.1	2261.8	2232.8	2236.9
22.5°	2253.5	2229.8	2194.8	2166.0	2167.9
25°	2186.8	2160.6	2121.6	2095.1	2097.6
27.5°	2114.4	2085.2	2045.1	2021.2	2025.8
30°	2036.6	2005.7	1965.2	1946.8	1953.2
32.5°	1954.6	1922.9	1883.2	1872.5	1882.4
35°	1869.9	1835.9	1797.8	1794.5	1805.4
37.5°	1781.5	1748.1	1713.4	1717.2	1728.7
40°	1688.0	1656.6	1627.6	1636.3	1648.6
42.5°	1594.0	1563.6	1540.6	1554.4	1567.8
45°	1498.1	1467.8	1451.6	1469.0	1483.4
47.5°	1402.7	1372.2	1362.3	1382.7	1395.5
50°	1302.3	1274.8	1269.8	1292.1	1304.6
52.5°	1200.8	1175.3	1176.0	1200.3	1215.8
55°	1100.7	1076.8	1080.6	1104.8	1115.9
57.5°	997.8	978.5	984.5	1006.4	1017.5
60°	895.4	877.4	885.2	906.7	917.7
62.5°	791.7	776.0	785.8	804.3	811.9
65°	688.3	676.1	684.8	697.5	705.1
67.5°	586.4	575.1	585.5	598.2	601.3
70°	481.3	473.6	485.1	493.4	493.9
72.5°	384.4	377.1	388.8	393.0	391.6
75°	290.5	286.4	299.0	298.2	297.8
77.5°	205.0	206.0	213.6	213.3	213.5
80°	132.2	136.8	140.9	143.6	143.2
82.5°	74.5	78.9	84.2	94.7	98.8
85°	34.2	38.7	47.9	57.5	61.5
87.5°	11.5	15.0	20.2	21.7	20.6
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	17.62	19.20	17.98	19.52	19.83	17.81	19.39	18.17	19.70	20.02
	3H	19.09	20.51	19.46	20.84	21.20	19.29	20.71	19.67	21.04	21.40
	4H	19.51	20.85	19.91	21.20	21.58	19.71	21.05	20.11	21.40	21.78
	6H	19.72	20.96	20.13	21.32	21.72	19.93	21.17	20.35	21.54	21.93
	8H	19.75	20.93	20.18	21.32	21.72	19.98	21.16	20.41	21.55	21.95
	12H	19.75	20.88	20.18	21.26	21.69	20.02	21.14	20.45	21.53	21.95
4H	2H	18.17	19.51	18.57	19.86	20.24	18.33	19.66	18.72	20.01	20.39
	3H	19.82	20.93	20.23	21.33	21.73	19.99	21.11	20.40	21.51	21.91
	4H	20.33	21.33	20.76	21.75	22.18	20.51	21.52	20.95	21.93	22.37
	6H	20.62	21.49	21.07	21.93	22.39	20.82	21.69	21.27	22.13	22.59
	8H	20.66	21.48	21.12	21.92	22.39	20.89	21.70	21.35	22.15	22.61
	12H	20.68	21.40	21.16	21.88	22.35	20.95	21.67	21.43	22.15	22.62
8H	4H	20.52	21.33	20.98	21.78	22.24	20.69	21.50	21.15	21.95	22.41
	6H	20.87	21.54	21.36	22.03	22.50	21.05	21.72	21.55	22.21	22.69
	8H	20.94	21.54	21.45	22.05	22.53	21.16	21.76	21.67	22.27	22.76
	12H	20.97	21.51	21.48	22.00	22.56	21.26	21.79	21.77	22.28	22.85
12H	4H	20.52	21.25	21.00	21.73	22.20	20.69	21.41	21.17	21.89	22.36
	6H	20.87	21.47	21.38	21.98	22.47	21.05	21.65	21.56	22.16	22.65
	8H	20.97	21.51	21.48	22.00	22.56	21.20	21.73	21.71	22.22	22.78

END OF REPORT