

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: P1498599

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498599
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-50
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

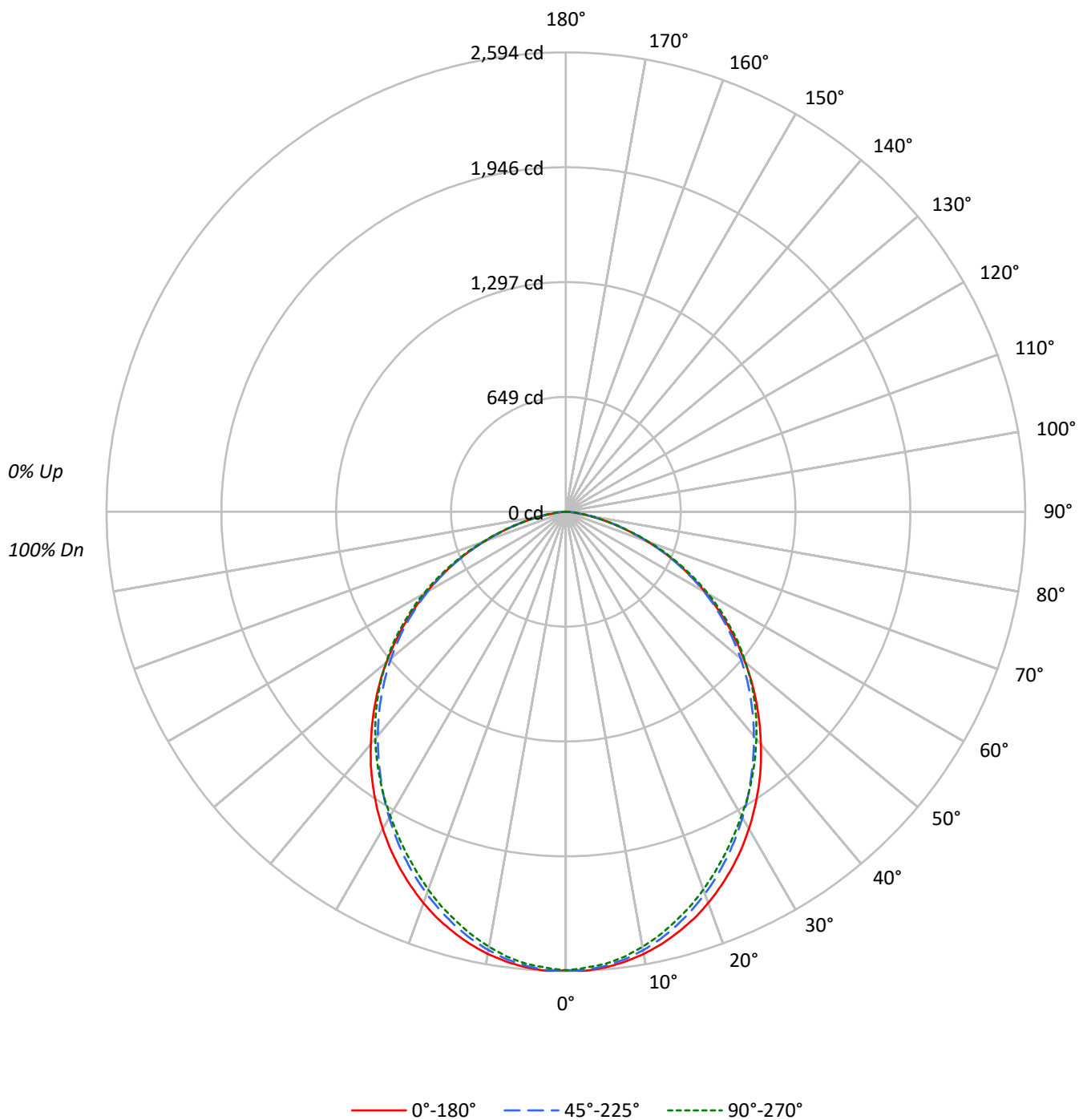
Lumens per Lamp: N/A
Luminaire Lumens: 6291.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	6967	6967	6967
5°	6977	6954	6922
10°	6929	6870	6815
15°	6844	6738	6668
20°	6733	6575	6503
25°	6591	6395	6323
30°	6424	6199	6161
35°	6236	5996	6021
40°	6020	5804	5879
45°	5788	5608	5731
50°	5534	5397	5544
55°	5242	5147	5315
60°	4892	4836	5014
65°	4450	4427	4558
70°	3844	3875	3945
75°	3065	3157	3144
80°	2080	2218	2252
85°	1074	1504	1927

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5788 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	3.9
10°-20°	681.3	10.8
20°-30°	995.5	15.8
30°-40°	1153.6	18.3
40°-50°	1150.8	18.3
50°-60°	990.8	15.7
60°-70°	692.3	11.0
70°-80°	321.9	5.1
80°-90°	61.4	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°	1920.2	30.5
0°-40°	3073.9	48.9
0°-60°	5215.5	82.9
0°-90°	6291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2589	2589	2589	2589	2589	
5°	2583	2574	2574	2559	2562	245
15°	2457	2439	2418	2392	2393	692
25°	2220	2193	2154	2127	2129	1022
35°	1898	1864	1825	1822	1833	1186
45°	1521	1490	1474	1491	1506	1173
55°	1117	1093	1097	1122	1133	998
65°	699	686	695	708	716	691
75°	295	291	304	303	302	317
85°	35	39	49	58	62	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2589.1	2589.1	2589.1	2589.1	2589.1
2.5°	2594.2	2586.2	2589.1	2577.2	2576.9
5°	2582.9	2573.9	2574.4	2558.9	2562.5
7.5°	2563.2	2552.5	2548.9	2531.3	2534.5
10°	2535.6	2522.3	2514.1	2492.5	2494.0
12.5°	2500.3	2485.2	2471.1	2446.0	2448.6
15°	2456.6	2439.2	2418.5	2392.0	2393.3
17.5°	2408.2	2389.2	2360.4	2332.2	2336.2
20°	2351.1	2330.0	2296.1	2266.7	2270.7
22.5°	2287.7	2263.7	2228.2	2198.9	2200.8
25°	2219.9	2193.3	2153.8	2126.8	2129.4
27.5°	2146.5	2116.8	2076.1	2051.8	2056.4
30°	2067.5	2036.1	1994.9	1976.3	1982.9
32.5°	1984.3	1952.1	1911.8	1900.8	1910.9
35°	1898.2	1863.8	1825.1	1821.7	1832.8
37.5°	1808.5	1774.6	1739.4	1743.2	1754.8
40°	1713.7	1681.7	1652.2	1661.1	1673.6
42.5°	1618.2	1587.4	1563.9	1578.0	1591.6
45°	1520.9	1490.1	1473.7	1491.3	1505.8
47.5°	1423.9	1393.0	1382.9	1403.6	1416.7
50°	1322.0	1294.1	1289.1	1311.7	1324.3
52.5°	1219.0	1193.1	1193.8	1218.5	1234.2
55°	1117.4	1093.2	1097.0	1121.6	1132.8
57.5°	1013.0	993.3	999.4	1021.7	1032.9
60°	909.0	890.8	898.6	920.3	931.6
62.5°	803.8	787.7	797.7	816.4	824.2
65°	698.8	686.3	695.3	708.1	715.8
67.5°	595.4	583.7	594.3	607.3	610.4
70°	488.6	480.8	492.5	500.9	501.4
72.5°	390.2	382.8	394.7	399.0	397.6
75°	294.8	290.7	303.6	302.7	302.4
77.5°	208.2	209.1	216.9	216.6	216.8
80°	134.2	138.8	143.1	145.8	145.3
82.5°	75.6	80.1	85.4	96.2	100.4
85°	34.8	39.3	48.7	58.4	62.4
87.5°	11.7	15.3	20.4	22.1	20.9
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	17.67	19.26	18.04	19.57	19.88	17.86	19.44	18.22	19.76	20.07
	3H	19.14	20.56	19.52	20.89	21.25	19.34	20.76	19.72	21.09	21.45
	4H	19.57	20.90	19.96	21.25	21.63	19.77	21.10	20.17	21.45	21.83
	6H	19.77	21.01	20.19	21.38	21.77	19.99	21.22	20.40	21.59	21.98
	8H	19.80	20.98	20.23	21.37	21.77	20.04	21.22	20.46	21.61	22.01
	12H	19.80	20.93	20.23	21.31	21.74	20.07	21.20	20.50	21.58	22.01
4H	2H	18.23	19.56	18.62	19.91	20.29	18.38	19.72	18.78	20.06	20.44
	3H	19.87	20.98	20.28	21.38	21.78	20.05	21.16	20.46	21.56	21.96
	4H	20.38	21.38	20.81	21.80	22.24	20.57	21.57	21.00	21.98	22.42
	6H	20.67	21.54	21.13	21.98	22.44	20.87	21.74	21.32	22.18	22.64
	8H	20.71	21.53	21.18	21.97	22.44	20.94	21.76	21.40	22.20	22.67
	12H	20.73	21.46	21.21	21.93	22.40	21.00	21.73	21.48	22.20	22.67
8H	4H	20.57	21.39	21.04	21.83	22.30	20.74	21.55	21.20	22.00	22.46
	6H	20.92	21.59	21.41	22.08	22.56	21.10	21.78	21.60	22.27	22.74
	8H	20.99	21.59	21.50	22.10	22.59	21.21	21.82	21.73	22.32	22.81
	12H	21.03	21.56	21.54	22.05	22.61	21.31	21.84	21.82	22.34	22.90
12H	4H	20.57	21.30	21.06	21.78	22.25	20.74	21.47	21.22	21.94	22.41
	6H	20.92	21.52	21.43	22.03	22.52	21.10	21.70	21.61	22.21	22.70
	8H	21.03	21.56	21.54	22.05	22.61	21.25	21.78	21.76	22.27	22.84

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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