

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: P1498566

Luminaire Tested: MAE-G-2-120-2STD-LO-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498566
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-LO-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

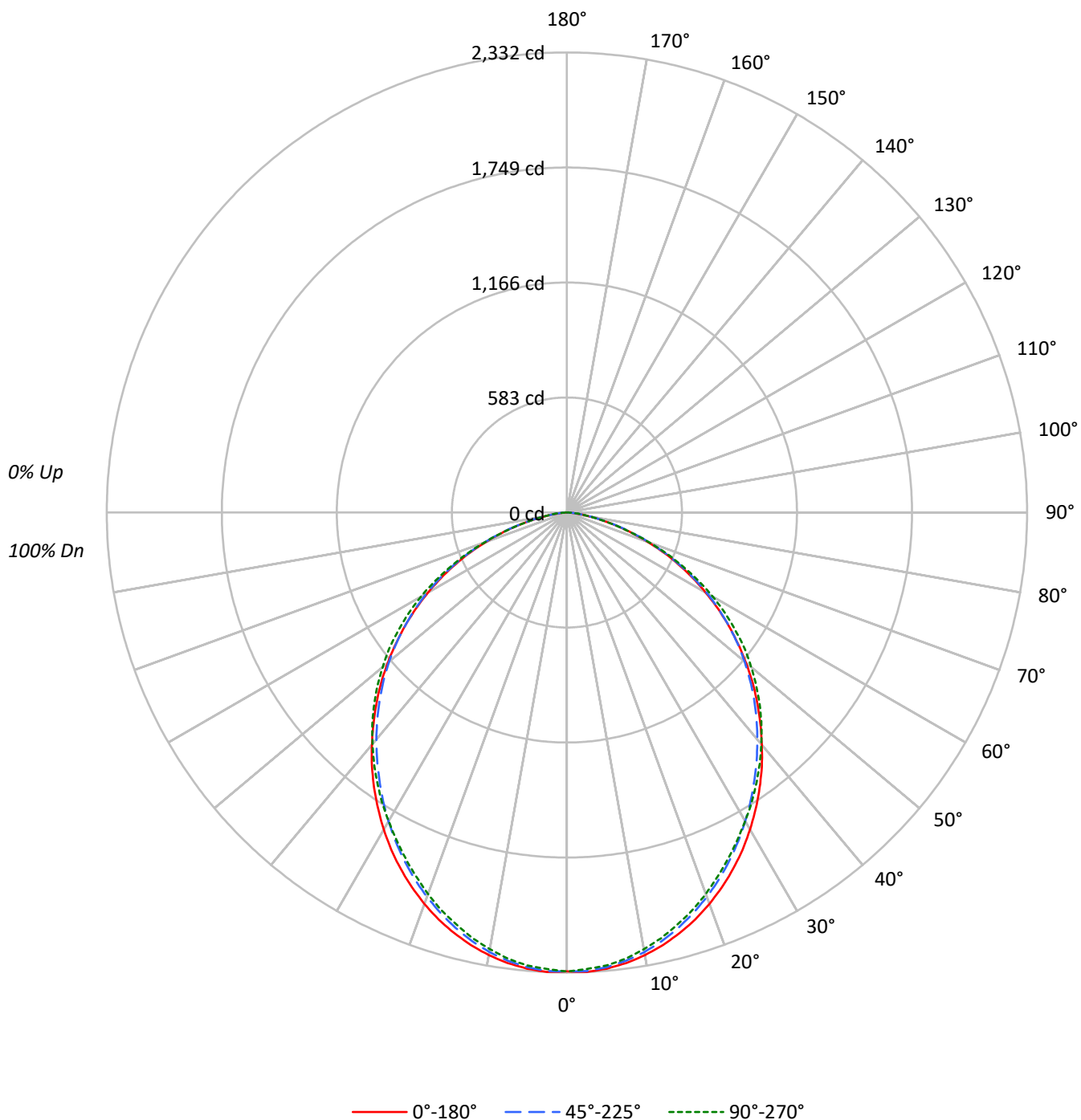
Lumens per Lamp: N/A
Luminaire Lumens: 5689.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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: P1498566

CATALOG NUMBER: MAE-G-2-120-2STD-LO-40-90

Luminous Intensity Polar Plot



TEST NUMBER: P1498566

CATALOG NUMBER: MAE-G-2-120-2STD-LO-40-90

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6261	6261	6261
5°	6270	6251	6226
10°	6225	6181	6142
15°	6148	6072	6025
20°	6047	5937	5893
25°	5919	5784	5744
30°	5766	5616	5612
35°	5595	5440	5499
40°	5399	5275	5383
45°	5189	5106	5261
50°	4960	4919	5102
55°	4697	4697	4894
60°	4379	4418	4604
65°	3978	4038	4141
70°	3430	3504	3518
75°	2728	2801	2708
80°	1839	1888	1826
85°	936	1210	1519

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5261 cd/sqm

TEST NUMBER: P1498566

CATALOG NUMBER: MAE-G-2-120-2STD-LO-40-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	3.8
10°-20°	614.0	10.8
20°-30°	899.6	15.8
30°-40°	1045.5	18.4
40°-50°	1045.7	18.4
50°-60°	902.0	15.9
60°-70°	627.5	11.0
70°-80°	284.8	5.0
80°-90°	51.0	0.9
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°	1732.6	30.5
0°-40°	2778.1	48.8
0°-60°	4725.7	83.1
0°-90°	5689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5689.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2321	2312	2314	2302	2305	220
15°	2207	2192	2180	2161	2163	622
25°	1993	1974	1948	1930	1935	917
35°	1703	1679	1656	1661	1674	1065
45°	1364	1343	1342	1366	1382	1052
55°	1001	986	1001	1031	1043	894
65°	625	620	634	644	650	618
75°	262	262	269	263	260	282
85°	30	33	39	46	49	45
90°	0	0	0	0	0	

TEST NUMBER: P1498566

CATALOG NUMBER: MAE-G-2-120-2STD-LO-40-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2326.5	2326.5	2326.5	2326.5	2326.5
2.5°	2331.5	2322.9	2326.5	2317.4	2316.1
5°	2321.1	2312.1	2314.0	2302.0	2304.8
7.5°	2303.3	2293.1	2292.2	2278.8	2281.6
10°	2278.3	2266.3	2262.1	2246.0	2247.6
12.5°	2246.5	2233.3	2225.2	2206.9	2209.7
15°	2206.9	2192.3	2179.6	2161.0	2162.8
17.5°	2163.3	2147.9	2129.2	2109.6	2114.0
20°	2111.5	2095.2	2073.1	2052.7	2057.8
22.5°	2054.4	2036.1	2013.4	1993.4	1996.9
25°	1993.4	1973.5	1948.0	1930.5	1934.6
27.5°	1927.1	1905.0	1879.5	1864.5	1870.7
30°	1855.8	1832.9	1807.5	1797.9	1806.2
32.5°	1780.7	1757.7	1733.4	1731.3	1743.0
35°	1703.2	1678.7	1656.1	1661.0	1674.0
37.5°	1622.6	1598.7	1579.6	1591.3	1605.0
40°	1537.0	1515.1	1501.7	1518.0	1532.5
42.5°	1451.2	1430.4	1422.5	1443.7	1459.4
45°	1363.6	1343.1	1341.6	1365.7	1382.5
47.5°	1276.7	1255.8	1259.7	1286.8	1301.8
50°	1184.8	1166.9	1175.1	1203.6	1218.7
52.5°	1092.6	1076.1	1088.9	1119.2	1136.7
55°	1001.1	986.3	1001.1	1030.7	1043.2
57.5°	907.1	896.3	912.6	938.4	950.4
60°	813.7	804.0	820.8	844.4	855.4
62.5°	719.2	711.4	728.4	746.9	753.2
65°	624.7	620.0	634.1	644.0	650.3
67.5°	532.1	527.2	540.6	548.9	550.4
70°	436.0	434.3	445.3	448.6	447.1
72.5°	348.0	345.5	354.1	352.8	349.5
75°	262.4	261.7	269.4	263.0	260.5
77.5°	184.7	187.6	189.2	183.5	181.5
80°	118.7	123.1	121.8	119.7	117.8
82.5°	66.3	69.7	70.3	77.3	80.1
85°	30.3	33.3	39.2	46.3	49.2
87.5°	10.2	12.8	16.4	17.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498566

CATALOG NUMBER: MAE-G-2-120-2STD-LO-40-90

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	17.30	18.88	17.66	19.19	19.51	17.62	19.20	17.98	19.52	19.83
	3H	18.76	20.18	19.13	20.51	20.87	19.05	20.47	19.42	20.80	21.16
	4H	19.18	20.51	19.58	20.86	21.24	19.43	20.77	19.83	21.12	21.50
	6H	19.38	20.62	19.79	20.98	21.37	19.61	20.85	20.02	21.21	21.60
	8H	19.41	20.58	19.83	20.97	21.37	19.64	20.82	20.07	21.21	21.61
	12H	19.40	20.53	19.83	20.91	21.34	19.66	20.79	20.09	21.17	21.60
4H	2H	17.87	19.21	18.27	19.55	19.93	18.13	19.47	18.53	19.81	20.19
	3H	19.50	20.61	19.91	21.01	21.41	19.74	20.85	20.15	21.25	21.65
	4H	20.01	21.01	20.44	21.42	21.86	20.21	21.21	20.65	21.63	22.07
	6H	20.29	21.16	20.74	21.60	22.06	20.46	21.33	20.92	21.77	22.23
	8H	20.33	21.14	20.79	21.58	22.05	20.52	21.33	20.98	21.77	22.24
	12H	20.34	21.07	20.82	21.54	22.01	20.55	21.28	21.04	21.76	22.23
8H	4H	20.19	21.00	20.65	21.45	21.91	20.38	21.19	20.84	21.63	22.10
	6H	20.52	21.19	21.02	21.68	22.16	20.68	21.35	21.17	21.84	22.31
	8H	20.59	21.19	21.10	21.70	22.18	20.76	21.36	21.27	21.87	22.36
	12H	20.62	21.15	21.13	21.64	22.21	20.83	21.36	21.34	21.85	22.42
12H	4H	20.19	20.91	20.67	21.39	21.86	20.37	21.10	20.85	21.58	22.05
	6H	20.52	21.12	21.03	21.63	22.12	20.67	21.27	21.18	21.78	22.27
	8H	20.62	21.15	21.13	21.64	22.20	20.79	21.32	21.30	21.81	22.37