

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: P1498116

Luminaire Tested: MAE-G-2-120-1HI-STD-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1HI-STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

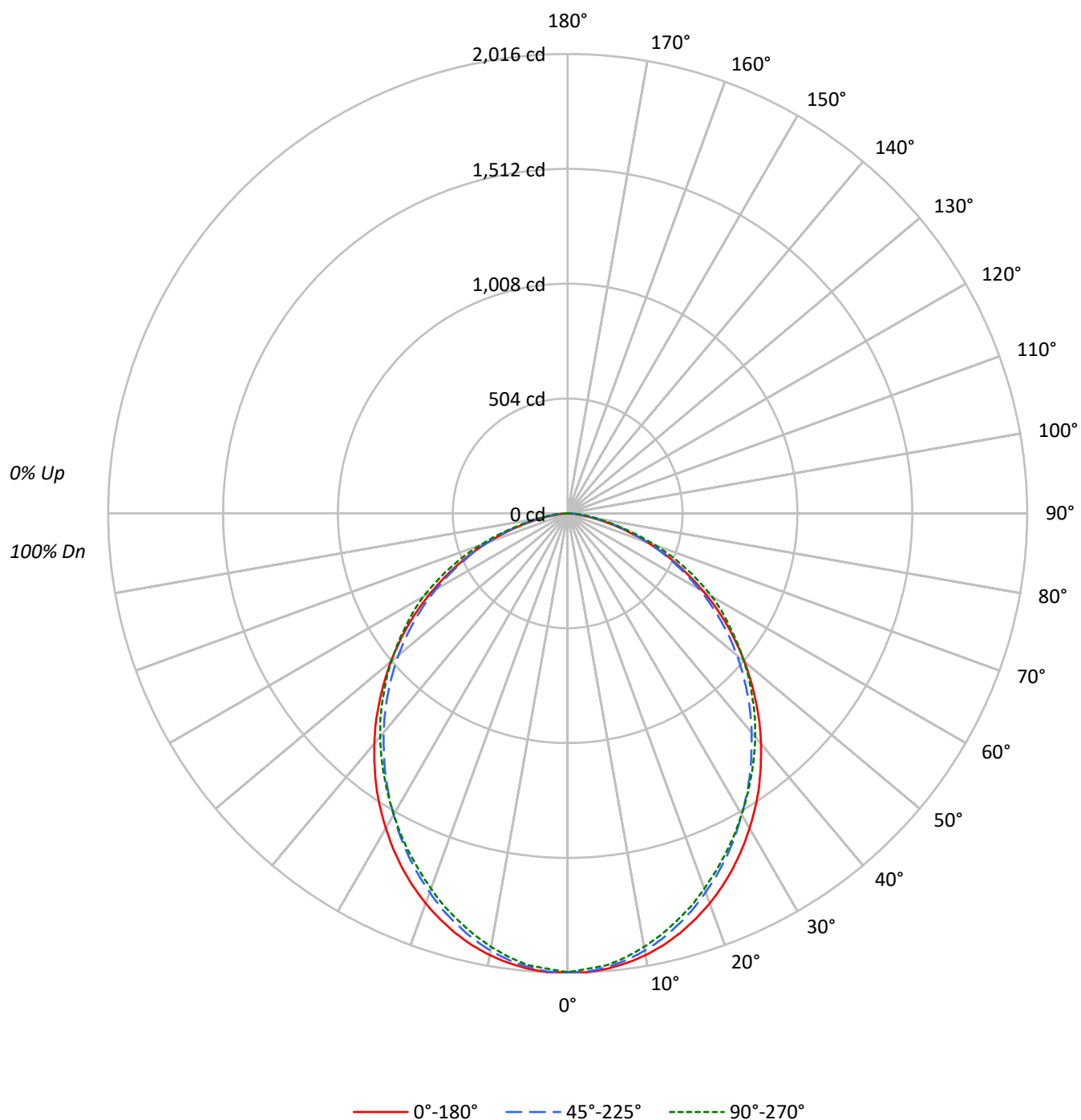
Lumens per Lamp: N/A
Luminaire Lumens: 4831.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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: P1498116

CATALOG NUMBER: MAE-G-2-120-1HI-STD-50-90

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	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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	84	79	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	61
4	84	73	64	58	82	71	63	57	69	62	56	66	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	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5417	5417	5417
5°	5419	5399	5375
10°	5379	5324	5278
15°	5311	5209	5156
20°	5216	5068	5020
25°	5099	4915	4880
30°	4958	4744	4743
35°	4809	4581	4615
40°	4637	4410	4496
45°	4445	4240	4363
50°	4240	4059	4225
55°	4003	3845	4076
60°	3712	3599	3939
65°	3375	3276	3643
70°	2926	2934	3219
75°	2332	2477	2598
80°	1609	1884	2018
85°	898	1417	1825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4445 cd/sqm

TEST NUMBER: P1498116

CATALOG NUMBER: MAE-G-2-120-1HI-STD-50-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.0	3.9
10°-20°	527.5	10.9
20°-30°	767.3	15.9
30°-40°	884.1	18.3
40°-50°	876.1	18.1
50°-60°	750.7	15.5
60°-70°	528.4	10.9
70°-80°	253.8	5.3
80°-90°	54.1	1.1
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°	1483.8	30.7
0°-40°	2367.9	49.0
0°-60°	3994.7	82.7
0°-90°	4831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2013	2013	2013	2013	2013	
5°	2006	2004	1999	1985	1990	190
15°	1906	1896	1870	1848	1851	537
25°	1717	1694	1656	1638	1644	790
35°	1464	1432	1395	1394	1405	914
45°	1168	1140	1114	1132	1146	901
55°	853	827	820	848	869	762
65°	530	510	514	555	572	525
75°	224	216	238	251	250	242
85°	29	35	46	55	59	41
90°	0	0	0	0	0	

TEST NUMBER: P1498116

CATALOG NUMBER: MAE-G-2-120-1HI-STD-50-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2013.1	2013.1	2013.1	2013.1	2013.1
2.5°	2015.5	2017.1	2013.1	1998.4	2000.7
5°	2006.1	2004.3	1998.6	1985.2	1989.7
7.5°	1990.0	1987.4	1977.2	1961.5	1964.5
10°	1968.6	1963.4	1948.5	1929.0	1931.6
12.5°	1941.0	1934.2	1913.2	1891.4	1894.3
15°	1906.4	1896.4	1869.9	1847.5	1850.6
17.5°	1866.5	1855.6	1823.6	1799.3	1805.7
20°	1821.5	1806.4	1769.9	1747.2	1752.9
22.5°	1771.9	1752.9	1714.8	1693.3	1698.2
25°	1717.3	1694.1	1655.5	1637.8	1643.6
27.5°	1658.4	1633.0	1593.7	1577.9	1586.3
30°	1595.7	1568.4	1526.6	1517.1	1526.3
32.5°	1531.3	1502.5	1461.4	1456.9	1466.1
35°	1463.8	1432.2	1394.6	1393.5	1404.9
37.5°	1391.4	1361.2	1324.3	1332.0	1342.8
40°	1319.9	1288.6	1255.5	1267.3	1279.9
42.5°	1245.4	1215.5	1185.7	1200.4	1215.3
45°	1167.9	1139.6	1114.2	1132.3	1146.5
47.5°	1090.0	1061.9	1042.4	1062.8	1079.4
50°	1012.8	986.0	969.5	993.2	1009.1
52.5°	932.0	906.4	895.8	920.7	940.4
55°	853.3	827.3	819.5	848.1	868.7
57.5°	772.2	751.4	744.9	777.4	802.7
60°	689.7	669.1	668.7	708.3	731.8
62.5°	609.3	588.9	590.4	635.5	651.8
65°	530.1	509.9	514.5	554.6	572.2
67.5°	451.9	433.0	444.8	482.4	493.8
70°	371.9	355.3	372.9	404.0	409.1
72.5°	297.1	282.9	305.5	326.3	326.8
75°	224.3	215.8	238.2	250.9	249.9
77.5°	160.4	156.0	176.0	183.9	183.3
80°	103.8	106.2	121.6	127.4	130.2
82.5°	60.5	65.6	77.4	89.6	92.7
85°	29.1	35.2	45.9	55.3	59.1
87.5°	10.1	14.2	19.0	21.1	20.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498116

CATALOG NUMBER: MAE-G-2-120-1HI-STD-50-90

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	16.66	18.24	17.02	18.55	18.87	16.91	18.49	17.28	18.81	19.12
	3H	18.10	19.52	18.48	19.85	20.21	18.53	19.95	18.91	20.28	20.64
	4H	18.53	19.86	18.92	20.21	20.59	19.01	20.35	19.41	20.70	21.07
	6H	18.74	19.98	19.15	20.34	20.74	19.28	20.52	19.69	20.88	21.28
	8H	18.78	19.96	19.20	20.34	20.74	19.36	20.54	19.79	20.93	21.33
	12H	18.78	19.91	19.21	20.29	20.72	19.41	20.54	19.84	20.93	21.35
4H	2H	17.18	18.52	17.58	18.87	19.24	17.39	18.73	17.79	19.07	19.45
	3H	18.81	19.92	19.22	20.32	20.72	19.21	20.32	19.62	20.72	21.12
	4H	19.32	20.32	19.75	20.73	21.17	19.80	20.80	20.23	21.22	21.66
	6H	19.61	20.49	20.07	20.93	21.39	20.17	21.04	20.63	21.48	21.94
	8H	19.67	20.48	20.13	20.93	21.39	20.28	21.10	20.74	21.54	22.01
	12H	19.69	20.42	20.17	20.90	21.37	20.37	21.10	20.85	21.58	22.05
8H	4H	19.54	20.35	20.00	20.80	21.26	19.98	20.79	20.44	21.23	21.70
	6H	19.90	20.57	20.39	21.06	21.54	20.42	21.10	20.92	21.59	22.06
	8H	19.98	20.59	20.50	21.10	21.58	20.58	21.19	21.09	21.69	22.18
	12H	20.04	20.57	20.54	21.06	21.62	20.73	21.26	21.23	21.75	22.31
12H	4H	19.55	20.28	20.03	20.75	21.23	19.97	20.70	20.45	21.18	21.65
	6H	19.92	20.52	20.43	21.03	21.52	20.42	21.03	20.94	21.54	22.03
	8H	20.04	20.58	20.55	21.07	21.63	20.63	21.16	21.14	21.65	22.22