

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: P1498524

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498524
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-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

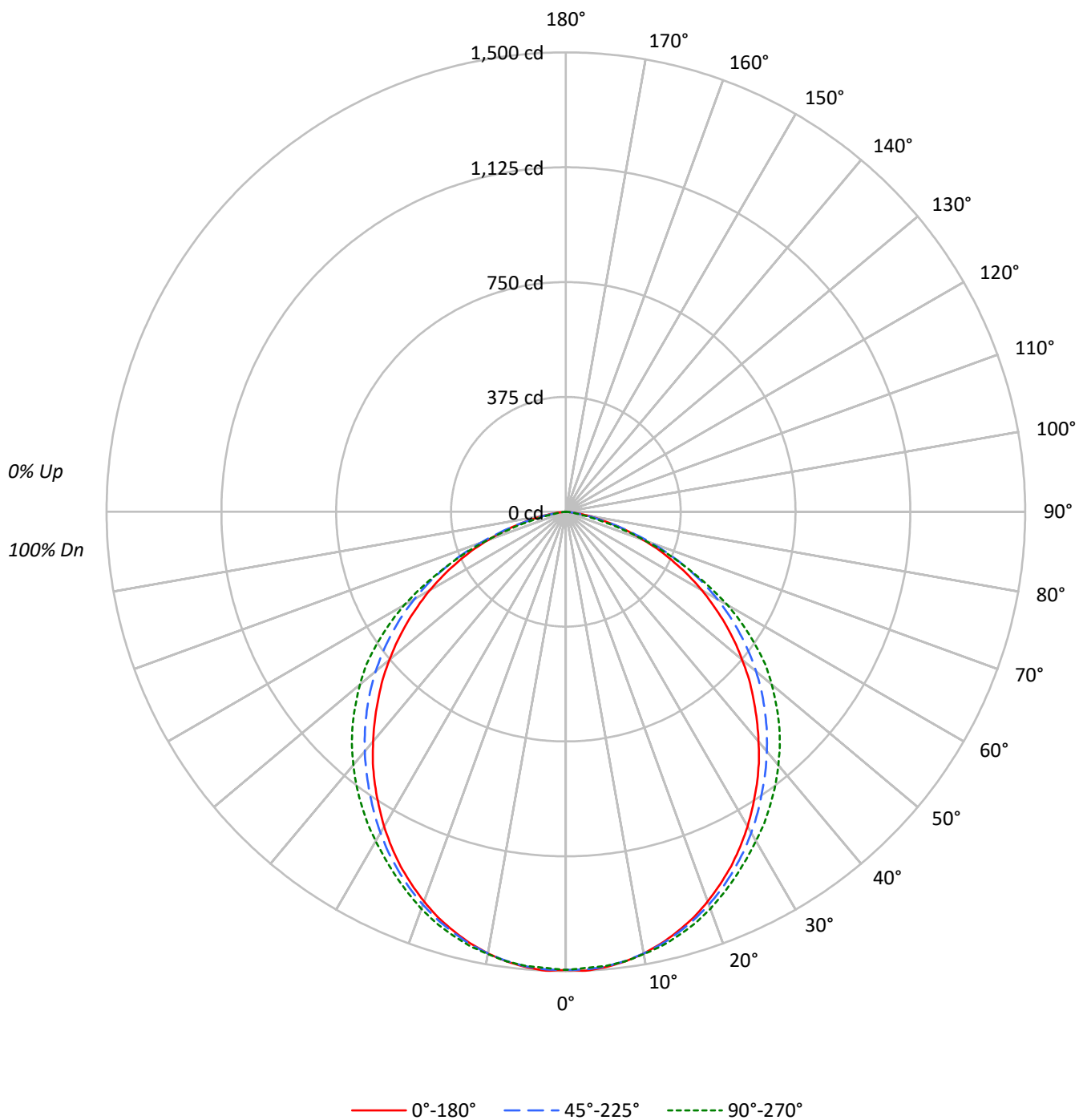
Lumens per Lamp: N/A
Luminaire Lumens: 3776.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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

TEST NUMBER: P1498524

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

Luminous Intensity Polar Plot



TEST NUMBER: P1498524

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

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	45	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4025	4025	4025
5°	4032	4026	4022
10°	4001	4001	4007
15°	3948	3962	3986
20°	3878	3910	3950
25°	3791	3842	3899
30°	3687	3763	3858
35°	3571	3671	3828
40°	3439	3588	3791
45°	3298	3499	3750
50°	3145	3394	3674
55°	2972	3258	3537
60°	2761	3075	3284
65°	2490	2795	2811
70°	2126	2326	2174
75°	1669	1684	1358
80°	1086	866	521
85°	503	330	266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3750 cd/sqm

TEST NUMBER: P1498524

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	3.7
10°-20°	400.7	10.6
20°-30°	595.3	15.8
30°-40°	701.1	18.6
40°-50°	710.3	18.8
50°-60°	618.3	16.4
60°-70°	421.3	11.2
70°-80°	168.4	4.5
80°-90°	19.3	0.5
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°	1137.3	30.1
0°-40°	1838.4	48.7
0°-60°	3167.0	83.9
0°-90°	3776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1493	1484	1490	1488	1489	142
15°	1417	1411	1422	1427	1431	399
25°	1277	1278	1294	1304	1313	588
35°	1087	1092	1118	1147	1165	679
45°	867	877	919	963	985	669
55°	633	647	694	738	754	566
65°	391	409	439	439	441	388
75°	160	170	162	139	131	173
85°	16	15	11	10	9	26
90°	0	0	0	0	0	

TEST NUMBER: P1498524

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495.9	1495.9	1495.9	1495.9	1495.9
2.5°	1500.0	1490.4	1495.9	1494.8	1490.8
5°	1492.8	1484.2	1490.4	1488.3	1488.8
7.5°	1481.2	1473.1	1479.7	1479.1	1480.7
10°	1464.4	1456.3	1464.4	1464.9	1466.4
12.5°	1443.5	1436.5	1446.1	1448.1	1451.7
15°	1417.2	1411.1	1422.2	1427.4	1430.9
17.5°	1388.8	1384.7	1395.8	1402.5	1408.1
20°	1354.2	1352.2	1365.4	1371.9	1379.5
22.5°	1316.6	1315.6	1331.4	1339.5	1347.1
25°	1276.9	1277.5	1293.8	1304.4	1313.1
27.5°	1233.3	1234.3	1254.1	1266.8	1277.5
30°	1186.6	1189.1	1210.9	1228.2	1241.5
32.5°	1137.3	1141.9	1165.2	1189.1	1205.9
35°	1087.0	1092.1	1117.5	1146.9	1165.2
37.5°	1035.2	1040.8	1070.3	1104.8	1124.1
40°	978.9	987.4	1021.5	1059.6	1079.3
42.5°	923.4	933.1	971.2	1012.9	1034.2
45°	866.6	877.3	919.4	962.6	985.4
47.5°	811.7	820.8	866.0	911.3	931.6
50°	751.3	763.4	810.7	855.9	877.7
52.5°	693.4	705.0	753.3	799.5	821.9
55°	633.4	647.1	694.4	738.1	753.8
57.5°	573.0	588.7	634.4	670.5	684.2
60°	513.1	528.8	571.4	599.8	610.1
62.5°	452.6	468.8	506.4	523.7	525.8
65°	391.1	409.4	438.9	439.4	441.4
67.5°	332.8	347.9	369.2	363.2	360.2
70°	270.2	287.0	295.6	283.5	276.3
72.5°	214.9	227.0	225.5	207.7	199.2
75°	160.5	170.2	162.0	139.2	130.6
77.5°	111.3	119.3	103.1	81.7	73.2
80°	70.1	73.6	55.9	39.6	33.6
82.5°	37.6	37.0	23.9	19.8	18.3
85°	16.3	14.7	10.7	9.7	8.6
87.5°	5.6	5.1	4.0	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498524

CATALOG NUMBER: MAE-G-2-120-2STD-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	15.75	17.34	16.12	17.65	17.96	16.72	18.30	17.08	18.61	18.93
	3H	17.18	18.60	17.55	18.92	19.28	17.91	19.33	18.28	19.65	20.01
	4H	17.57	18.90	17.97	19.25	19.63	18.12	19.45	18.52	19.80	20.18
	6H	17.74	18.97	18.15	19.34	19.73	18.14	19.37	18.55	19.73	20.13
	8H	17.76	18.93	18.18	19.32	19.72	18.11	19.29	18.54	19.68	20.08
	12H	17.75	18.87	18.18	19.25	19.68	18.09	19.21	18.52	19.59	20.02
4H	2H	16.42	17.75	16.81	18.10	18.47	17.19	18.52	17.59	18.87	19.25
	3H	17.99	19.10	18.40	19.50	19.90	18.54	19.64	18.95	20.04	20.44
	4H	18.47	19.46	18.90	19.88	20.31	18.81	19.80	19.24	20.21	20.65
	6H	18.71	19.57	19.17	20.01	20.47	18.86	19.72	19.31	20.16	20.62
	8H	18.73	19.53	19.19	19.98	20.44	18.83	19.64	19.30	20.08	20.55
	12H	18.73	19.45	19.21	19.93	20.40	18.81	19.53	19.29	20.01	20.48
8H	4H	18.61	19.41	19.07	19.85	20.32	18.92	19.73	19.38	20.17	20.64
	6H	18.88	19.54	19.38	20.03	20.51	18.98	19.64	19.48	20.13	20.61
	8H	18.92	19.51	19.43	20.02	20.51	18.96	19.55	19.47	20.06	20.55
	12H	18.93	19.45	19.44	19.94	20.51	18.94	19.46	19.45	19.96	20.52
12H	4H	18.59	19.30	19.07	19.78	20.25	18.91	19.63	19.39	20.11	20.58
	6H	18.85	19.44	19.36	19.95	20.44	18.96	19.55	19.47	20.06	20.55
	8H	18.91	19.43	19.42	19.93	20.49	18.96	19.48	19.47	19.97	20.53