

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: P1498212

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498212
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-2-120-1LO-STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

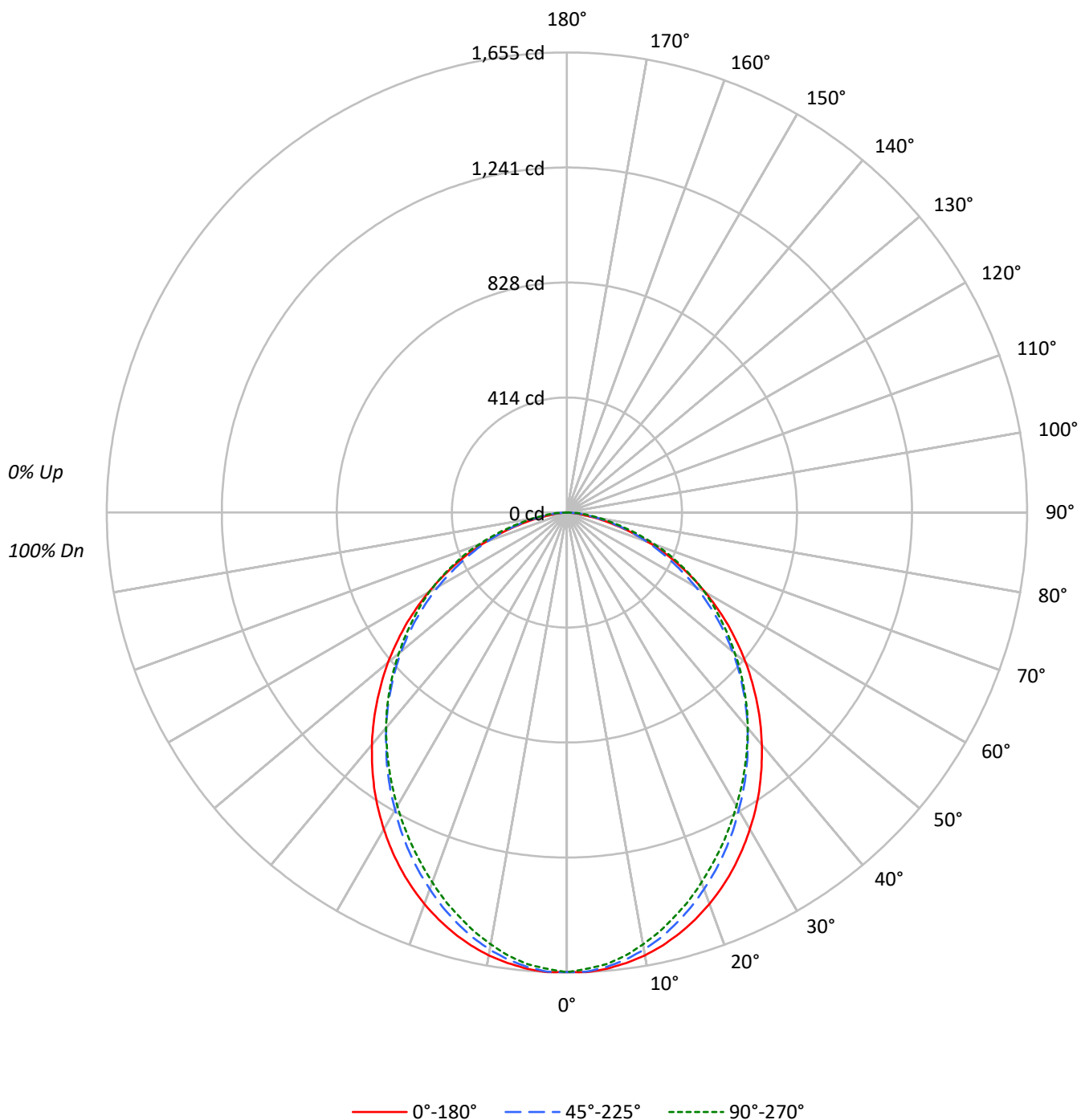
Lumens per Lamp: N/A
Luminaire Lumens: 3925.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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: P1498212

CATALOG NUMBER: MAE-G-2-120-1LO-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	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	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	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4449	4449	4449
5°	4451	4432	4407
10°	4420	4364	4312
15°	4366	4257	4187
20°	4292	4128	4054
25°	4200	3991	3919
30°	4089	3841	3789
35°	3970	3698	3668
40°	3832	3552	3554
45°	3680	3407	3431
50°	3516	3255	3304
55°	3325	3080	3177
60°	3094	2880	3075
65°	2821	2633	2902
70°	2454	2393	2652
75°	1966	2084	2280
80°	1368	1677	1906
85°	769	1321	1760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3680 cd/sqm

TEST NUMBER: P1498212

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	4.0
10°-20°	430.9	11.0
20°-30°	623.7	15.9
30°-40°	715.3	18.2
40°-50°	705.7	18.0
50°-60°	602.8	15.4
60°-70°	427.7	10.9
70°-80°	214.6	5.5
80°-90°	49.4	1.3
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°	1209.7	30.8
0°-40°	1924.9	49.0
0°-60°	3233.4	82.4
0°-90°	3925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1653	1653	1653	1653	1653	
5°	1648	1646	1641	1627	1631	156
15°	1567	1557	1528	1502	1503	442
25°	1414	1390	1344	1319	1320	651
35°	1208	1174	1126	1112	1116	755
45°	967	934	895	896	902	746
55°	709	678	656	666	677	633
65°	443	419	414	443	456	438
75°	189	178	200	217	219	204
85°	25	31	43	53	57	35
90°	0	0	0	0	0	

TEST NUMBER: P1498212

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.3	1653.3	1653.3	1653.3	1653.3
2.5°	1655.1	1656.7	1653.3	1640.0	1642.9
5°	1647.7	1646.5	1640.8	1627.4	1631.3
7.5°	1634.8	1632.2	1622.0	1605.8	1608.2
10°	1617.6	1612.4	1596.9	1576.4	1578.0
12.5°	1595.1	1587.8	1565.7	1541.8	1543.3
15°	1567.2	1556.7	1528.2	1502.1	1503.1
17.5°	1535.1	1522.7	1487.6	1459.1	1462.4
20°	1498.9	1482.3	1441.6	1413.8	1415.8
22.5°	1458.6	1438.1	1394.8	1367.1	1367.8
25°	1414.4	1389.6	1344.3	1318.8	1320.0
27.5°	1366.9	1339.4	1291.8	1267.7	1270.5
30°	1316.1	1286.2	1236.1	1216.3	1219.3
32.5°	1263.6	1231.7	1181.8	1165.4	1168.4
35°	1208.5	1173.8	1125.8	1112.4	1116.5
37.5°	1149.6	1115.8	1068.0	1060.7	1064.2
40°	1091.0	1056.1	1011.1	1006.8	1011.7
42.5°	1030.0	996.0	953.7	951.9	957.9
45°	967.0	933.5	895.2	896.2	901.6
47.5°	903.1	870.4	836.8	839.6	846.9
50°	839.9	807.9	777.4	783.0	789.1
52.5°	773.0	742.7	717.7	724.4	733.8
55°	708.8	678.2	656.4	666.4	677.2
57.5°	642.3	615.7	596.3	610.7	625.1
60°	574.8	549.0	535.1	556.6	571.3
62.5°	508.3	483.3	473.4	501.4	513.6
65°	443.1	418.7	413.5	442.8	455.7
67.5°	377.8	355.9	358.9	389.2	398.5
70°	311.9	292.1	304.1	331.0	337.1
72.5°	249.4	233.2	252.2	273.5	276.6
75°	189.1	178.5	200.4	216.7	219.3
77.5°	135.6	130.1	151.7	164.7	167.8
80°	88.3	90.2	108.2	119.1	123.0
82.5°	51.7	56.8	71.2	84.5	88.5
85°	24.9	31.0	42.8	52.7	57.0
87.5°	8.5	12.6	18.0	20.1	19.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498212

CATALOG NUMBER: MAE-G-2-120-1LO-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	16.01	17.60	16.38	17.91	18.23	15.94	17.53	16.31	17.84	18.16
	3H	17.48	18.91	17.86	19.23	19.59	17.66	19.09	18.04	19.41	19.77
	4H	17.92	19.26	18.32	19.61	19.98	18.23	19.57	18.63	19.92	20.29
	6H	18.15	19.39	18.56	19.75	20.14	18.59	19.83	19.01	20.20	20.59
	8H	18.18	19.37	18.61	19.76	20.15	18.71	19.89	19.14	20.28	20.68
	12H	18.19	19.32	18.62	19.70	20.13	18.79	19.93	19.22	20.31	20.74
4H	2H	16.51	17.85	16.91	18.19	18.57	16.45	17.79	16.85	18.14	18.51
	3H	18.16	19.28	18.57	19.68	20.08	18.38	19.49	18.79	19.89	20.29
	4H	18.69	19.69	19.12	20.11	20.55	19.06	20.07	19.50	20.48	20.92
	6H	19.00	19.88	19.46	20.32	20.78	19.55	20.42	20.00	20.86	21.32
	8H	19.06	19.88	19.52	20.32	20.79	19.70	20.52	20.16	20.97	21.43
	12H	19.09	19.82	19.57	20.30	20.77	19.83	20.56	20.31	21.04	21.51
8H	4H	18.92	19.74	19.38	20.19	20.65	19.26	20.08	19.72	20.52	20.99
	6H	19.31	19.99	19.80	20.47	20.95	19.84	20.52	20.33	21.01	21.48
	8H	19.40	20.01	19.91	20.52	21.01	20.06	20.67	20.57	21.17	21.66
	12H	19.46	20.00	19.97	20.49	21.05	20.25	20.79	20.76	21.28	21.84
12H	4H	18.94	19.67	19.42	20.15	20.62	19.26	20.00	19.75	20.47	20.94
	6H	19.34	19.95	19.85	20.45	20.94	19.85	20.46	20.36	20.97	21.45
	8H	19.48	20.01	19.98	20.50	21.07	20.12	20.65	20.62	21.14	21.71