

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: P1498026

Luminaire Tested: MAE-G-2-120-1HI-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498026
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-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

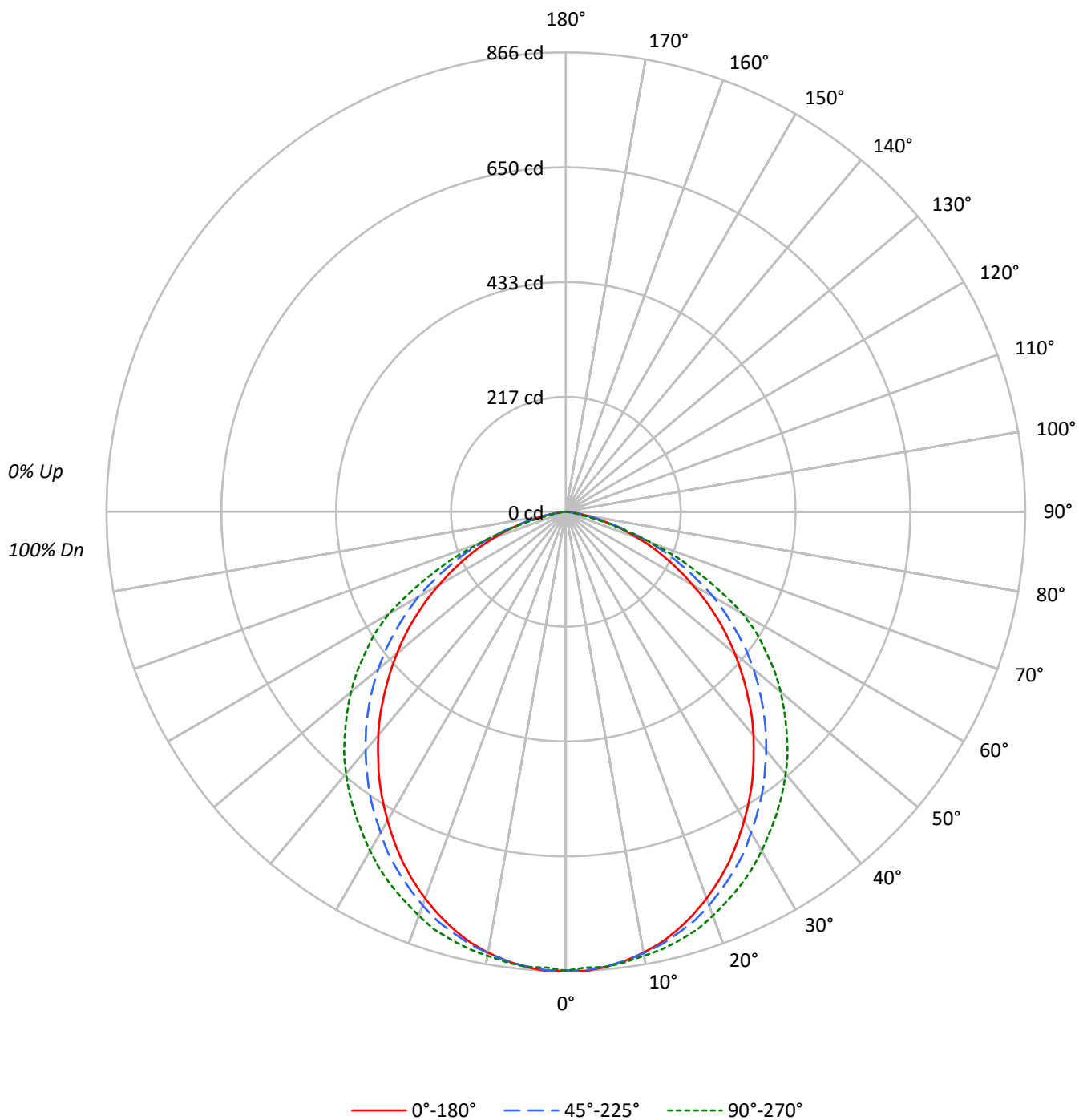
Lumens per Lamp: N/A
Luminaire Lumens: 2178.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.6
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

TEST NUMBER: P1498026

CATALOG NUMBER: MAE-G-2-120-1HI-30-90

Luminous Intensity Polar Plot



TEST NUMBER: P1498026

CATALOG NUMBER: MAE-G-2-120-1HI-30-90

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	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	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	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	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	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2328	2328	2328
5°	2327	2323	2327
10°	2306	2310	2323
15°	2271	2289	2327
20°	2221	2260	2320
25°	2162	2221	2310
30°	2089	2170	2294
35°	2016	2122	2278
40°	1933	2064	2265
45°	1838	2004	2241
50°	1741	1933	2215
55°	1629	1840	2161
60°	1487	1729	2077
65°	1331	1545	1784
70°	1136	1303	1361
75°	880	945	763
80°	578	502	270
85°	309	232	154

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2241 cd/sqm

TEST NUMBER: P1498026

CATALOG NUMBER: MAE-G-2-120-1HI-30-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	3.8
10°-20°	232.2	10.7
20°-30°	345.2	15.9
30°-40°	405.9	18.6
40°-50°	409.7	18.8
50°-60°	355.7	16.3
60°-70°	242.1	11.1
70°-80°	94.3	4.3
80°-90°	11.3	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°	659.1	30.3
0°-40°	1065.0	48.9
0°-60°	1830.3	84.0
0°-90°	2178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	861	860	860	860	861	82
15°	815	817	822	830	835	230
25°	728	732	748	767	778	335
35°	614	621	646	676	693	383
45°	483	495	526	568	589	373
55°	347	358	392	437	461	310
65°	209	219	243	269	280	208
75°	85	90	91	82	73	92
85°	10	10	8	6	5	15
90°	0	0	0	0	0	

TEST NUMBER: P1498026

CATALOG NUMBER: MAE-G-2-120-1HI-30-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	865.1	865.1	865.1	865.1	865.1
2.5°	866.4	866.4	865.1	861.4	860.1
5°	861.4	860.1	860.1	860.1	861.4
7.5°	853.9	853.9	853.9	855.2	856.4
10°	844.0	844.0	845.2	847.7	850.2
12.5°	831.5	832.8	835.2	840.2	844.0
15°	815.3	816.6	821.6	830.3	835.2
17.5°	796.7	800.4	807.9	817.8	825.3
20°	775.5	779.2	789.2	801.6	810.3
22.5°	753.1	756.8	769.3	784.2	794.2
25°	728.2	731.9	748.1	766.8	778.0
27.5°	700.8	705.8	725.7	745.6	759.3
30°	672.2	678.4	698.3	723.2	738.2
32.5°	643.5	651.0	672.2	700.8	715.7
35°	613.7	621.1	646.0	675.9	693.3
37.5°	581.3	590.0	616.2	652.3	669.7
40°	550.2	558.9	587.5	626.1	644.8
42.5°	517.8	527.8	557.7	597.5	618.7
45°	483.0	495.4	526.5	567.6	588.8
47.5°	449.4	460.6	494.2	536.5	558.9
50°	415.8	428.2	461.8	505.4	529.0
52.5°	382.1	393.3	428.2	471.8	496.7
55°	347.3	358.5	392.1	436.9	460.6
57.5°	312.4	326.1	357.3	400.8	427.0
60°	276.3	288.8	321.2	364.7	385.9
62.5°	242.7	253.9	281.3	322.4	332.4
65°	209.1	219.1	242.7	268.9	280.1
67.5°	178.0	185.5	206.6	224.1	229.0
70°	144.4	151.9	165.6	175.5	173.0
72.5°	114.5	119.5	128.2	127.0	120.7
75°	84.6	89.6	90.9	82.2	73.4
77.5°	59.7	62.2	58.5	46.1	37.3
80°	37.3	38.6	32.4	19.9	17.4
82.5°	21.2	21.2	14.9	12.4	10.0
85°	10.0	10.0	7.5	6.2	5.0
87.5°	3.7	3.7	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498026

CATALOG NUMBER: MAE-G-2-120-1HI-30-90

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	13.54	15.12	13.90	15.43	15.75	15.12	16.70	15.48	17.01	17.33
	3H	14.88	16.29	15.25	16.62	16.98	16.39	17.81	16.77	18.13	18.49
	4H	15.24	16.57	15.64	16.92	17.30	16.58	17.91	16.98	18.26	18.64
	6H	15.41	16.63	15.82	17.00	17.39	16.58	17.81	16.99	18.17	18.57
	8H	15.42	16.59	15.85	16.98	17.38	16.55	17.72	16.98	18.11	18.51
	12H	15.41	16.53	15.84	16.92	17.35	16.53	17.65	16.96	18.03	18.46
4H	2H	14.20	15.53	14.60	15.88	16.26	15.50	16.83	15.90	17.17	17.55
	3H	15.70	16.80	16.11	17.20	17.60	16.93	18.04	17.34	18.43	18.84
	4H	16.14	17.13	16.58	17.55	17.99	17.19	18.18	17.62	18.59	19.03
	6H	16.37	17.23	16.83	17.67	18.13	17.21	18.07	17.67	18.52	18.97
	8H	16.39	17.19	16.86	17.64	18.10	17.19	17.99	17.65	18.43	18.90
	12H	16.40	17.11	16.88	17.59	18.06	17.17	17.88	17.65	18.36	18.83
8H	4H	16.30	17.10	16.76	17.55	18.01	17.27	18.07	17.73	18.52	18.98
	6H	16.56	17.22	17.06	17.71	18.19	17.30	17.96	17.80	18.45	18.93
	8H	16.60	17.19	17.12	17.70	18.19	17.28	17.87	17.79	18.38	18.86
	12H	16.62	17.14	17.13	17.64	18.20	17.26	17.78	17.77	18.27	18.84
12H	4H	16.28	17.00	16.77	17.48	17.95	17.26	17.97	17.74	18.45	18.92
	6H	16.53	17.12	17.05	17.63	18.12	17.28	17.87	17.79	18.38	18.86
	8H	16.60	17.12	17.11	17.61	18.18	17.28	17.79	17.79	18.29	18.85