

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: P1498356

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498356
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-2-120-2HI-HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

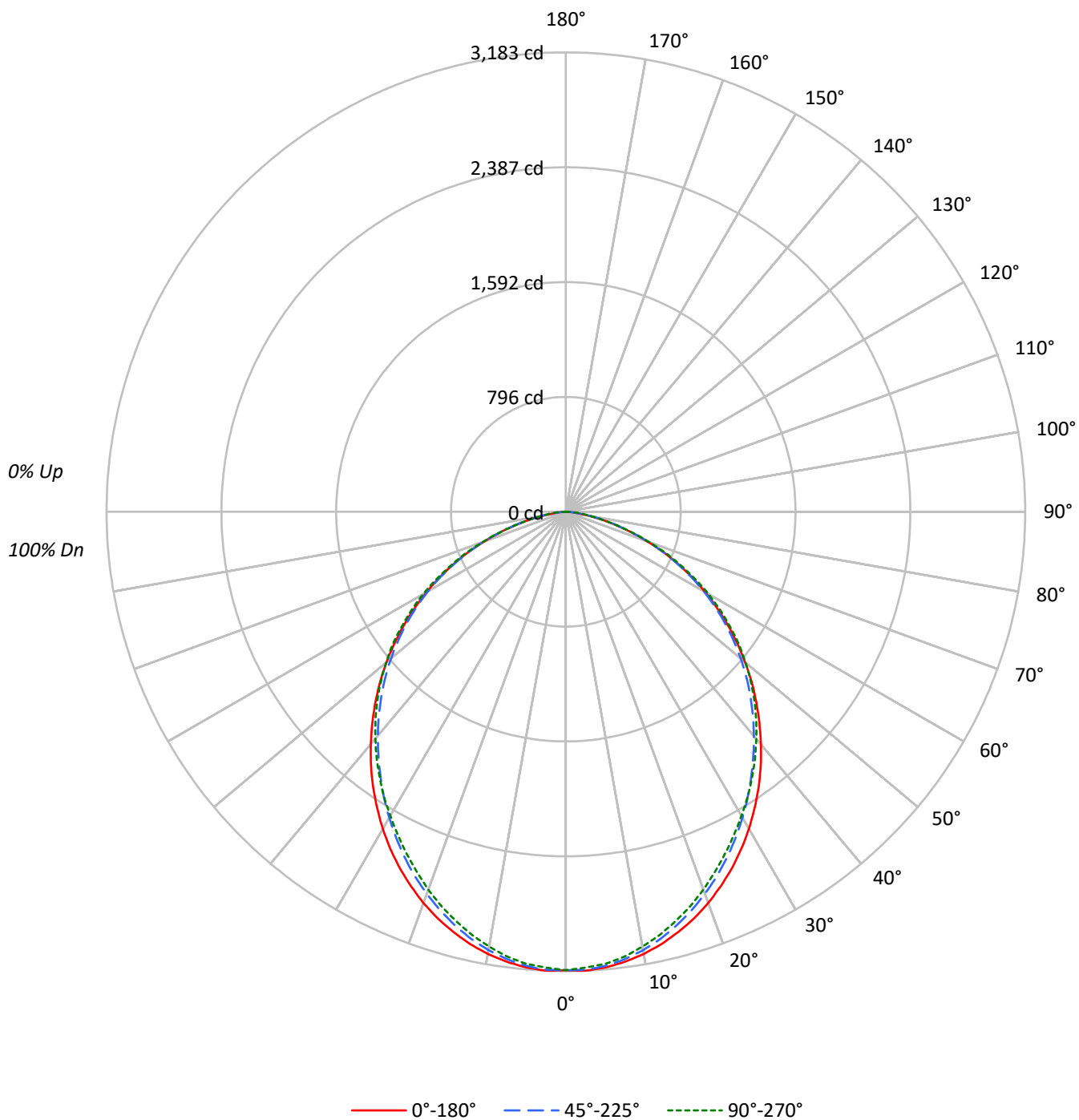
Lumens per Lamp: N/A
Luminaire Lumens: 7718.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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: P1498356

CATALOG NUMBER: MAE-G-2-120-2HI-HI-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	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	81	98	90	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	61
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°	8548	8548	8548
5°	8560	8531	8492
10°	8500	8428	8361
15°	8396	8266	8180
20°	8260	8067	7978
25°	8087	7845	7757
30°	7881	7605	7559
35°	7650	7356	7387
40°	7386	7120	7213
45°	7101	6881	7030
50°	6790	6621	6802
55°	6432	6313	6519
60°	6001	5934	6151
65°	5459	5431	5592
70°	4717	4754	4840
75°	3761	3872	3857
80°	2551	2720	2763
85°	1318	1843	2368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7101 cd/sqm

TEST NUMBER: P1498356

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.7	3.9
10°-20°	835.9	10.8
20°-30°	1221.3	15.8
30°-40°	1415.3	18.3
40°-50°	1411.8	18.3
50°-60°	1215.5	15.7
60°-70°	849.3	11.0
70°-80°	394.9	5.1
80°-90°	75.3	1.0
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°	2355.8	30.5
0°-40°	3771.2	48.9
0°-60°	6398.5	82.9
0°-90°	7718.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7718.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3176	3176	3176	3176	3176	
5°	3169	3158	3158	3139	3144	301
15°	3014	2993	2967	2935	2936	850
25°	2724	2691	2642	2609	2612	1254
35°	2329	2287	2239	2235	2249	1455
45°	1866	1828	1808	1830	1847	1439
55°	1371	1341	1346	1376	1390	1224
65°	857	842	853	869	878	848
75°	362	357	372	372	371	389
85°	43	48	60	72	77	63
90°	0	0	0	0	0	

TEST NUMBER: P1498356

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3176.4	3176.4	3176.4	3176.4	3176.4
2.5°	3182.7	3172.8	3176.4	3161.9	3161.4
5°	3168.8	3157.7	3158.3	3139.4	3143.8
7.5°	3144.5	3131.4	3127.0	3105.5	3109.4
10°	3110.8	3094.5	3084.4	3057.9	3059.8
12.5°	3067.6	3048.8	3031.7	3000.8	3004.0
15°	3013.7	2992.6	2967.1	2934.6	2936.1
17.5°	2954.5	2931.1	2895.9	2861.1	2866.1
20°	2884.4	2858.5	2816.9	2780.8	2785.9
22.5°	2806.6	2777.2	2733.6	2697.6	2700.1
25°	2723.5	2690.9	2642.3	2609.4	2612.5
27.5°	2633.4	2597.0	2547.1	2517.3	2522.9
30°	2536.4	2498.0	2447.4	2424.5	2432.6
32.5°	2434.4	2394.9	2345.5	2332.0	2344.3
35°	2328.8	2286.6	2239.2	2234.9	2248.6
37.5°	2218.7	2177.2	2133.9	2138.6	2152.9
40°	2102.5	2063.1	2027.0	2037.8	2053.2
42.5°	1985.3	1947.4	1918.7	1935.9	1952.6
45°	1865.9	1828.0	1808.0	1829.5	1847.4
47.5°	1746.9	1709.0	1696.7	1722.0	1738.0
50°	1621.9	1587.7	1581.5	1609.3	1624.7
52.5°	1495.6	1463.8	1464.6	1494.8	1514.1
55°	1370.9	1341.1	1345.7	1376.0	1389.6
57.5°	1242.7	1218.7	1226.1	1253.5	1267.2
60°	1115.1	1092.9	1102.5	1129.1	1142.9
62.5°	986.1	966.4	978.6	1001.7	1011.1
65°	857.4	842.0	852.9	868.7	878.2
67.5°	730.4	716.2	729.2	745.0	748.8
70°	599.5	589.8	604.2	614.4	615.1
72.5°	478.7	469.7	484.3	489.5	487.8
75°	361.7	356.6	372.4	371.5	371.0
77.5°	255.4	256.5	266.0	265.8	266.0
80°	164.6	170.3	175.5	178.9	178.3
82.5°	92.7	98.2	104.8	117.9	123.1
85°	42.7	48.2	59.7	71.6	76.7
87.5°	14.4	18.7	25.2	27.1	25.7
90°	0.0	0.0	0.0	0.0	0.0

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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	18.38	19.97	18.75	20.28	20.59	18.57	20.15	18.93	20.47	20.78
	3H	19.85	21.27	20.23	21.60	21.96	20.05	21.47	20.43	21.80	22.16
	4H	20.28	21.61	20.67	21.96	22.34	20.48	21.82	20.88	22.16	22.54
	6H	20.48	21.72	20.90	22.09	22.48	20.70	21.93	21.11	22.30	22.69
	8H	20.51	21.69	20.94	22.08	22.48	20.75	21.93	21.17	22.32	22.72
	12H	20.51	21.64	20.94	22.02	22.45	20.78	21.91	21.21	22.29	22.72
4H	2H	18.94	20.27	19.34	20.62	21.00	19.09	20.43	19.49	20.77	21.15
	3H	20.58	21.69	20.99	22.09	22.49	20.76	21.87	21.17	22.27	22.67
	4H	21.09	22.09	21.52	22.51	22.95	21.28	22.28	21.71	22.69	23.13
	6H	21.38	22.25	21.84	22.69	23.15	21.58	22.45	22.03	22.89	23.35
	8H	21.42	22.24	21.89	22.68	23.15	21.65	22.47	22.11	22.91	23.38
	12H	21.44	22.17	21.92	22.64	23.11	21.71	22.44	22.19	22.91	23.38
8H	4H	21.28	22.10	21.75	22.54	23.01	21.45	22.26	21.91	22.71	23.17
	6H	21.63	22.30	22.12	22.79	23.27	21.81	22.49	22.31	22.98	23.45
	8H	21.70	22.30	22.21	22.81	23.30	21.92	22.53	22.44	23.03	23.52
	12H	21.74	22.27	22.25	22.76	23.32	22.02	22.55	22.53	23.05	23.61
12H	4H	21.28	22.01	21.77	22.49	22.96	21.45	22.18	21.93	22.65	23.12
	6H	21.63	22.23	22.14	22.74	23.23	21.81	22.41	22.32	22.92	23.41
	8H	21.74	22.27	22.25	22.76	23.32	21.96	22.49	22.47	22.98	23.55