

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: P1498407

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498407
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-STD-50
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

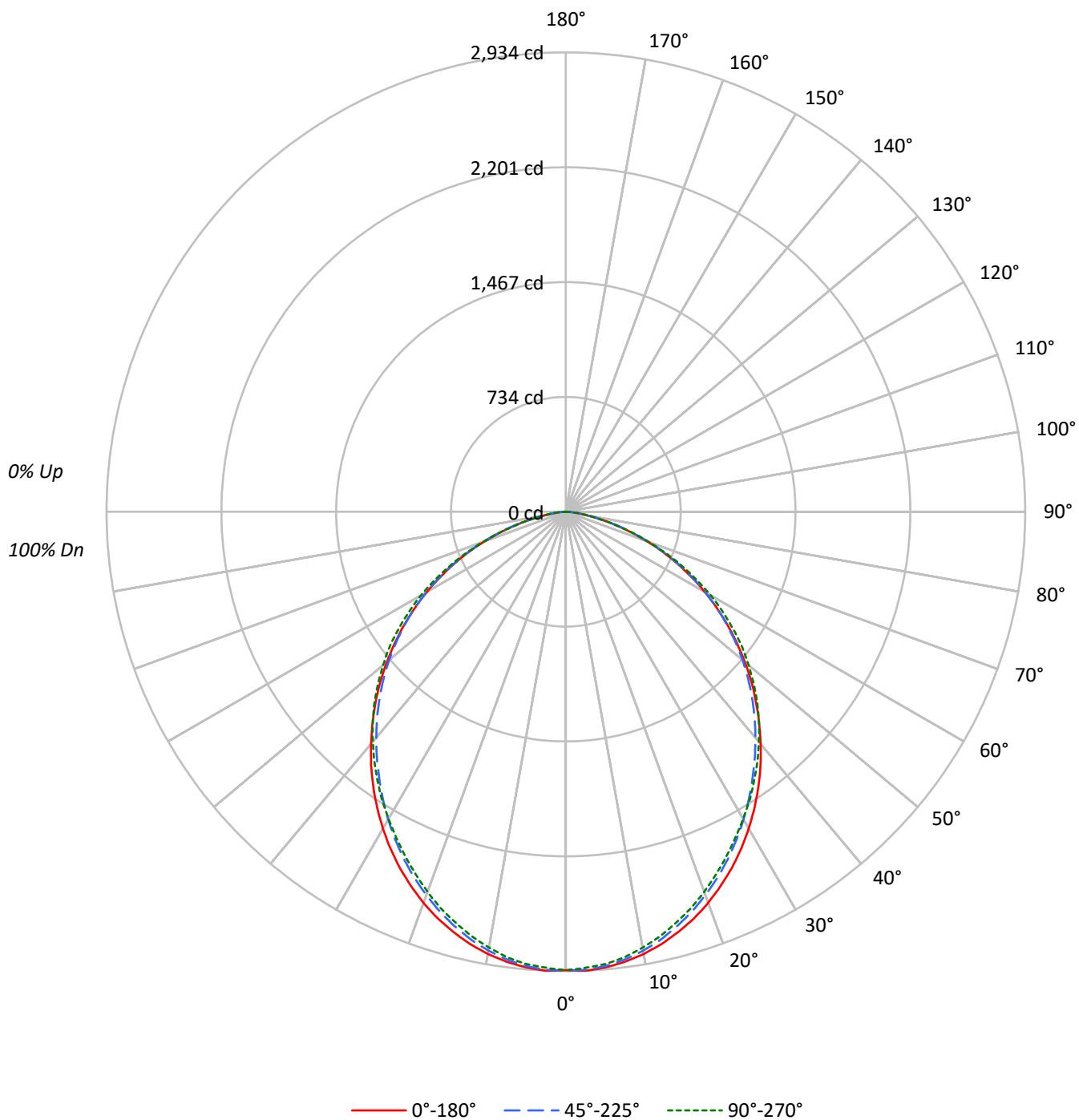
Lumens per Lamp: N/A
Luminaire Lumens: 7147.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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

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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	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	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7880	7880	7880
5°	7891	7867	7834
10°	7836	7777	7723
15°	7739	7636	7571
20°	7612	7462	7398
25°	7451	7266	7206
30°	7260	7052	7036
35°	7045	6828	6889
40°	6799	6617	6739
45°	6536	6401	6581
50°	6247	6166	6377
55°	5916	5885	6116
60°	5518	5534	5758
65°	5014	5060	5195
70°	4327	4402	4437
75°	3444	3538	3452
80°	2325	2414	2369
85°	1189	1578	1988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6581 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.5	3.9
10°-20°	772.2	10.8
20°-30°	1130.4	15.8
30°-40°	1312.6	18.4
40°-50°	1311.8	18.4
50°-60°	1130.9	15.8
60°-70°	787.8	11.0
70°-80°	360.1	5.0
80°-90°	65.7	0.9
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°	2178.1	30.5
0°-40°	3490.7	48.8
0°-60°	5933.4	83.0
0°-90°	7147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2928	2928	2928	2928	2928	
5°	2921	2910	2912	2896	2900	277
15°	2778	2759	2741	2716	2718	783
25°	2509	2483	2447	2423	2427	1155
35°	2145	2111	2078	2082	2097	1340
45°	1717	1689	1682	1710	1729	1325
55°	1261	1240	1254	1289	1304	1126
65°	788	779	795	808	816	779
75°	331	329	340	334	332	356
85°	38	43	51	60	64	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2928.2	2928.2	2928.2	2928.2	2928.2
2.5°	2934.3	2924.0	2928.2	2916.1	2914.9
5°	2921.3	2910.3	2912.2	2896.3	2900.0
7.5°	2898.9	2886.4	2884.3	2866.6	2870.2
10°	2867.6	2852.5	2846.1	2824.6	2826.5
12.5°	2827.6	2810.8	2799.0	2774.3	2777.7
15°	2777.8	2759.1	2740.9	2715.6	2717.6
17.5°	2723.0	2703.1	2676.9	2650.1	2655.4
20°	2658.1	2636.5	2605.6	2577.7	2583.5
22.5°	2586.1	2561.9	2530.0	2502.5	2506.2
25°	2509.4	2482.9	2447.1	2422.6	2427.1
27.5°	2426.0	2396.6	2360.5	2339.0	2346.0
30°	2336.4	2305.7	2269.4	2254.7	2264.3
32.5°	2242.1	2210.9	2176.0	2170.4	2184.2
35°	2144.6	2111.4	2078.5	2081.7	2097.0
37.5°	2043.2	2010.6	1982.0	1993.7	2009.7
40°	1935.6	1905.5	1883.8	1901.3	1918.3
42.5°	1827.5	1798.9	1784.1	1807.6	1826.1
45°	1717.4	1688.9	1682.1	1709.5	1729.2
47.5°	1607.9	1579.1	1579.3	1610.2	1627.9
50°	1492.3	1467.2	1472.9	1505.8	1523.3
52.5°	1376.2	1353.0	1364.6	1399.7	1420.5
55°	1261.0	1239.9	1254.4	1288.9	1303.6
57.5°	1142.9	1126.8	1143.2	1173.7	1188.0
60°	1025.3	1010.7	1028.2	1056.3	1069.9
62.5°	906.3	894.0	912.5	935.2	943.3
65°	787.5	779.2	794.7	807.7	815.9
67.5°	670.8	662.6	678.1	689.6	692.0
70°	549.9	545.8	559.5	565.1	564.0
72.5°	438.9	434.3	445.9	446.1	442.7
75°	331.2	329.3	340.3	334.3	332.0
77.5°	233.4	236.2	240.2	235.2	233.4
80°	150.0	155.5	155.8	154.8	152.9
82.5°	84.1	88.5	90.8	100.6	104.5
85°	38.5	42.6	51.1	60.5	64.4
87.5°	13.0	16.4	21.4	22.9	21.6
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	18.10	19.68	18.46	20.00	20.31	18.38	19.96	18.75	20.28	20.59
	3H	19.56	20.98	19.94	21.31	21.67	19.82	21.25	20.20	21.57	21.94
	4H	19.98	21.32	20.38	21.67	22.04	20.22	21.56	20.62	21.91	22.28
	6H	20.19	21.42	20.60	21.79	22.18	20.41	21.65	20.82	22.01	22.40
	8H	20.21	21.39	20.64	21.78	22.18	20.45	21.63	20.87	22.02	22.42
	12H	20.21	21.34	20.64	21.72	22.15	20.47	21.60	20.90	21.98	22.41
4H	2H	18.66	20.00	19.06	20.35	20.73	18.89	20.23	19.29	20.58	20.96
	3H	20.30	21.41	20.71	21.81	22.21	20.52	21.63	20.93	22.03	22.43
	4H	20.81	21.81	21.24	22.22	22.66	21.01	22.01	21.44	22.42	22.86
	6H	21.09	21.96	21.55	22.40	22.86	21.27	22.14	21.73	22.58	23.04
	8H	21.13	21.94	21.59	22.39	22.85	21.33	22.14	21.79	22.59	23.05
	12H	21.14	21.87	21.63	22.35	22.82	21.37	22.10	21.86	22.58	23.05
8H	4H	20.99	21.81	21.45	22.25	22.71	21.17	21.99	21.64	22.43	22.90
	6H	21.33	22.00	21.82	22.49	22.97	21.49	22.16	21.99	22.65	23.13
	8H	21.40	22.00	21.91	22.51	22.99	21.58	22.18	22.09	22.69	23.18
	12H	21.43	21.96	21.94	22.45	23.02	21.66	22.19	22.17	22.68	23.25
12H	4H	20.99	21.72	21.47	22.19	22.67	21.17	21.90	21.65	22.37	22.84
	6H	21.33	21.93	21.84	22.44	22.92	21.49	22.09	22.00	22.60	23.08
	8H	21.43	21.96	21.94	22.45	23.01	21.61	22.14	22.12	22.63	23.20