

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: P1498386

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498386
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-30-90
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

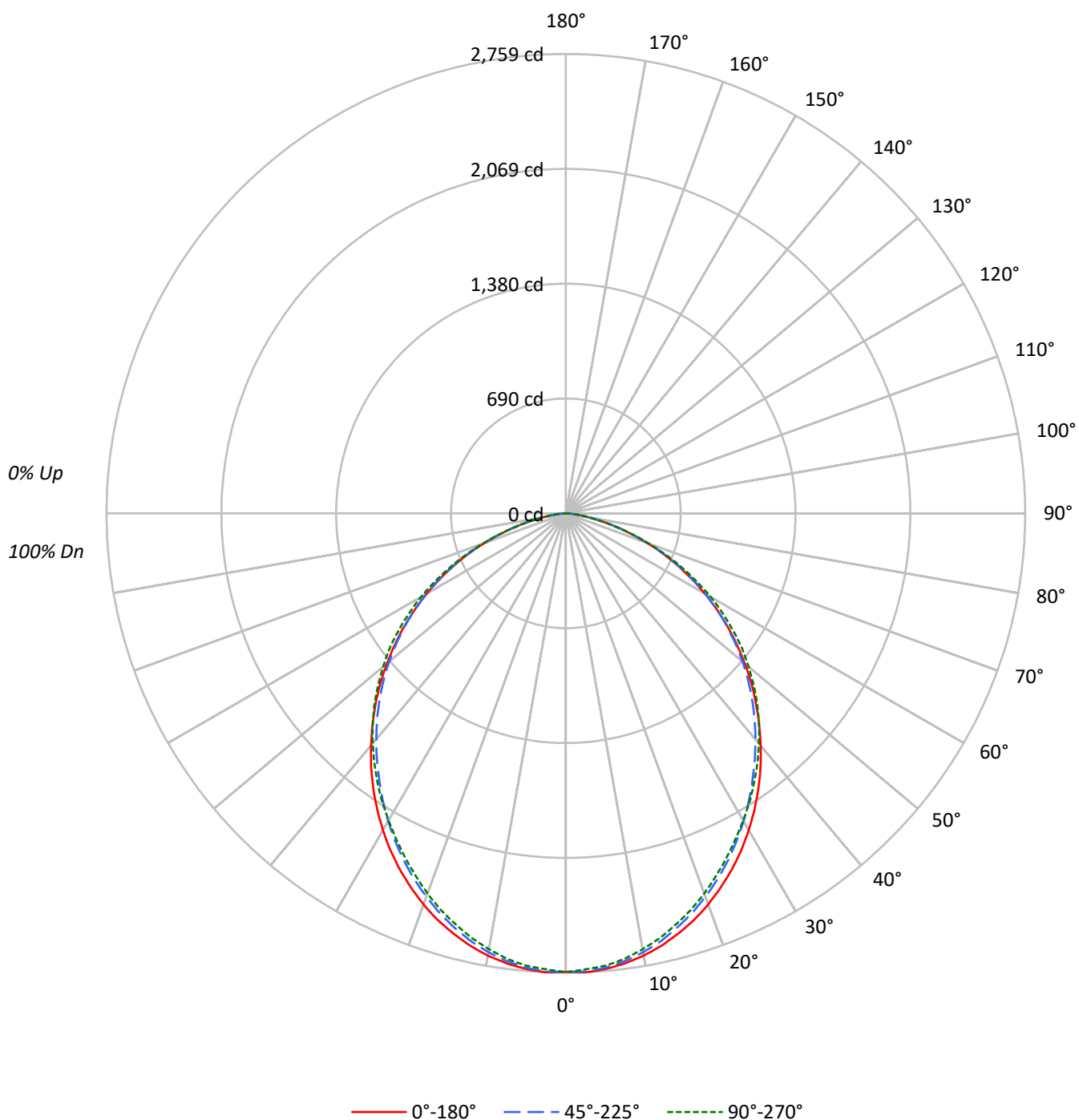
Lumens per Lamp: N/A
Luminaire Lumens: 6721.0 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
2	100	92	86	81	98	91	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°	7410	7410	7410
5°	7421	7398	7367
10°	7369	7314	7263
15°	7277	7181	7120
20°	7158	7017	6958
25°	7007	6833	6777
30°	6827	6632	6617
35°	6625	6421	6478
40°	6394	6223	6337
45°	6146	6020	6188
50°	5875	5798	5997
55°	5564	5534	5751
60°	5189	5204	5415
65°	4715	4759	4885
70°	4068	4139	4173
75°	3239	3327	3246
80°	2187	2270	2228
85°	1118	1482	1871

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	3.9
10°-20°	726.1	10.8
20°-30°	1063.0	15.8
30°-40°	1234.4	18.4
40°-50°	1233.6	18.4
50°-60°	1063.5	15.8
60°-70°	740.8	11.0
70°-80°	338.6	5.0
80°-90°	61.8	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°	2048.2	30.5
0°-40°	3282.6	48.8
0°-60°	5579.8	83.0
0°-90°	6721.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6721.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2754	2754	2754	2754	2754	
5°	2747	2737	2739	2724	2727	261
15°	2612	2595	2578	2554	2556	736
25°	2360	2335	2301	2278	2282	1086
35°	2017	1986	1955	1958	1972	1260
45°	1615	1588	1582	1608	1626	1246
55°	1186	1166	1180	1212	1226	1059
65°	740	733	747	760	767	733
75°	312	310	320	314	312	335
85°	36	40	48	57	61	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2753.6	2753.6	2753.6	2753.6	2753.6
2.5°	2759.4	2749.7	2753.6	2742.4	2741.1
5°	2747.2	2736.9	2738.7	2723.7	2727.2
7.5°	2726.1	2714.3	2712.4	2695.7	2699.0
10°	2696.7	2682.4	2676.5	2656.2	2658.0
12.5°	2659.1	2643.2	2632.1	2609.0	2612.1
15°	2612.2	2594.6	2577.6	2553.6	2555.6
17.5°	2560.7	2541.9	2517.2	2492.1	2497.0
20°	2499.6	2479.4	2450.3	2424.0	2429.6
22.5°	2432.0	2409.2	2379.2	2353.3	2356.8
25°	2359.9	2334.9	2301.2	2278.2	2282.4
27.5°	2281.5	2253.8	2219.8	2199.6	2206.2
30°	2197.2	2168.3	2134.2	2120.4	2129.4
32.5°	2108.5	2079.2	2046.3	2041.1	2054.1
35°	2016.7	1985.5	1954.6	1957.6	1972.0
37.5°	1921.3	1890.8	1863.8	1874.8	1889.9
40°	1820.2	1792.0	1771.5	1787.9	1804.0
42.5°	1718.6	1691.6	1677.8	1699.9	1717.2
45°	1614.9	1588.2	1581.8	1607.6	1626.1
47.5°	1512.1	1485.0	1485.2	1514.2	1530.8
50°	1403.4	1379.8	1385.0	1416.0	1432.5
52.5°	1294.2	1272.3	1283.2	1316.3	1335.9
55°	1185.9	1166.0	1179.5	1212.0	1225.9
57.5°	1074.7	1059.7	1075.2	1103.7	1117.1
60°	964.2	950.4	966.9	993.4	1006.1
62.5°	852.4	840.7	858.1	879.5	887.1
65°	740.5	732.7	747.4	759.6	767.2
67.5°	630.8	623.2	637.7	648.6	650.8
70°	517.1	513.2	526.1	531.4	530.4
72.5°	412.8	408.4	419.3	419.5	416.4
75°	311.5	309.6	320.0	314.4	312.2
77.5°	219.4	222.1	225.9	221.1	219.4
80°	141.1	146.3	146.5	145.6	143.8
82.5°	79.1	83.2	85.5	94.6	98.3
85°	36.2	40.1	48.0	56.9	60.6
87.5°	12.3	15.4	20.2	21.5	20.3
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	17.88	19.47	18.25	19.78	20.10	18.17	19.75	18.53	20.06	20.38
	3H	19.35	20.77	19.72	21.10	21.46	19.61	21.03	19.99	21.36	21.72
	4H	19.77	21.11	20.17	21.45	21.83	20.01	21.34	20.41	21.69	22.07
	6H	19.97	21.21	20.38	21.57	21.97	20.20	21.43	20.61	21.80	22.19
	8H	20.00	21.18	20.42	21.57	21.97	20.24	21.41	20.66	21.80	22.20
	12H	20.00	21.13	20.43	21.51	21.94	20.26	21.38	20.69	21.77	22.20
4H	2H	18.45	19.79	18.85	20.14	20.51	18.68	20.02	19.08	20.36	20.74
	3H	20.09	21.20	20.50	21.60	22.00	20.31	21.42	20.72	21.82	22.22
	4H	20.60	21.60	21.03	22.01	22.45	20.79	21.79	21.23	22.21	22.65
	6H	20.88	21.75	21.33	22.19	22.65	21.06	21.93	21.51	22.37	22.83
	8H	20.92	21.73	21.38	22.17	22.64	21.12	21.93	21.58	22.37	22.84
	12H	20.93	21.66	21.41	22.13	22.60	21.16	21.89	21.64	22.36	22.83
8H	4H	20.78	21.59	21.24	22.04	22.50	20.96	21.77	21.42	22.22	22.68
	6H	21.12	21.79	21.61	22.28	22.75	21.28	21.95	21.77	22.44	22.92
	8H	21.18	21.78	21.70	22.29	22.78	21.37	21.97	21.88	22.48	22.97
	12H	21.22	21.75	21.73	22.24	22.80	21.45	21.98	21.96	22.47	23.03
12H	4H	20.78	21.50	21.26	21.98	22.45	20.96	21.68	21.44	22.16	22.63
	6H	21.11	21.71	21.63	22.22	22.71	21.27	21.88	21.79	22.38	22.87
	8H	21.21	21.74	21.72	22.24	22.80	21.40	21.93	21.91	22.42	22.98