

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: P1498434

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498434
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-2-120-2LO-HI-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

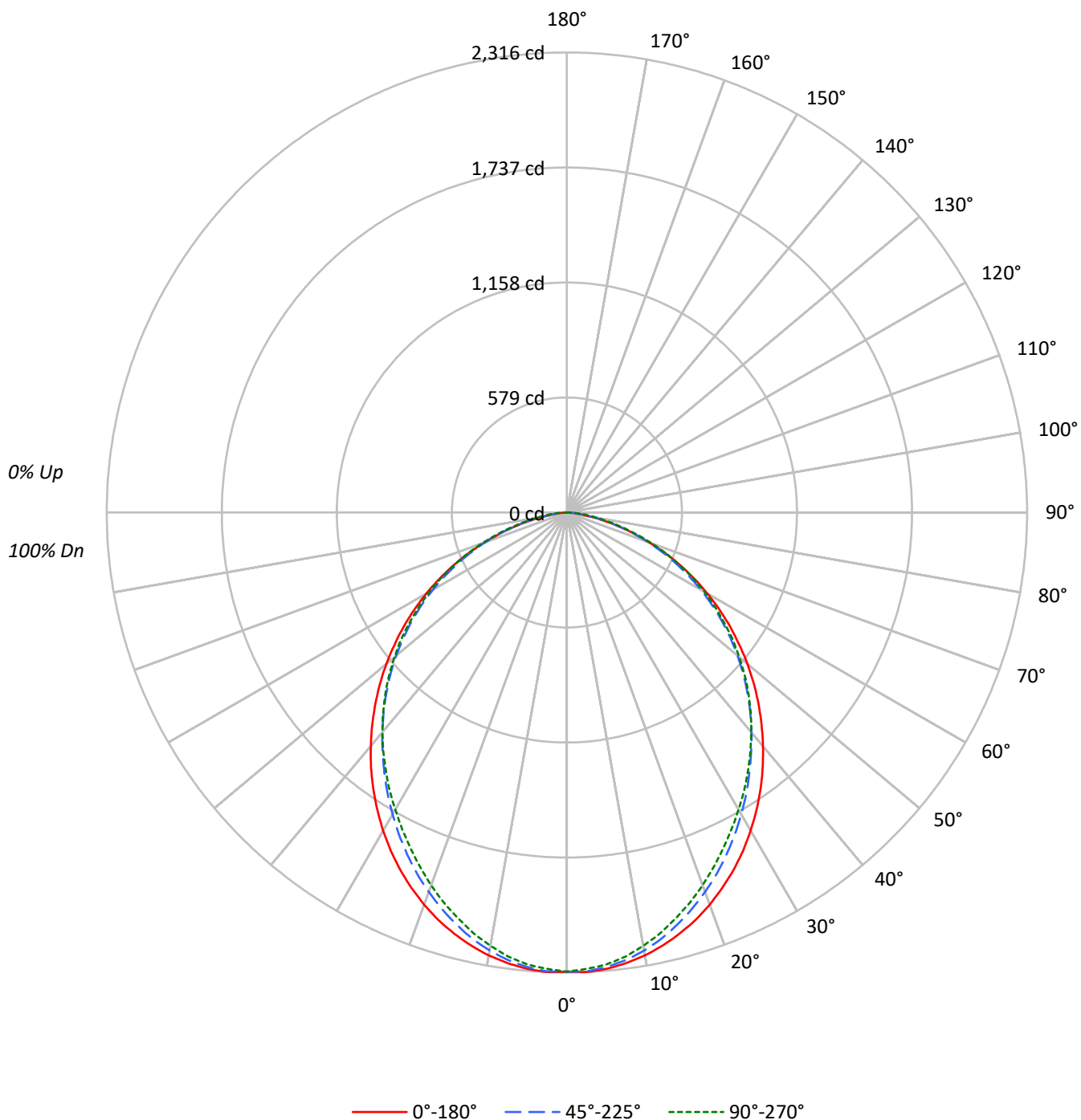
Lumens per Lamp: N/A
Luminaire Lumens: 5553.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67
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	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	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	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	55	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°	6220	6220	6220
5°	6229	6205	6170
10°	6187	6119	6053
15°	6113	5984	5892
20°	6017	5820	5718
25°	5893	5643	5534
30°	5747	5453	5367
35°	5582	5260	5218
40°	5393	5076	5071
45°	5188	4891	4918
50°	4965	4694	4737
55°	4707	4466	4534
60°	4397	4191	4302
65°	4009	3845	3989
70°	3475	3420	3569
75°	2783	2881	3014
80°	1909	2166	2363
85°	1010	1584	2106

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	3.9
10°-20°	605.1	10.9
20°-30°	879.7	15.8
30°-40°	1014.4	18.3
40°-50°	1007.0	18.1
50°-60°	863.9	15.6
60°-70°	608.4	11.0
70°-80°	295.3	5.3
80°-90°	62.1	1.1
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°	1701.9	30.6
0°-40°	2716.3	48.9
0°-60°	4587.2	82.6
0°-90°	5553.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5553.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2312	2312	2312	2312	2312	
5°	2306	2299	2297	2280	2284	219
15°	2194	2177	2148	2115	2115	618
25°	1985	1954	1901	1865	1864	914
35°	1699	1657	1601	1584	1588	1062
45°	1363	1323	1285	1286	1292	1052
55°	1003	969	952	961	966	896
65°	630	607	604	619	626	623
75°	268	258	277	286	290	288
85°	33	39	51	63	68	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2311.6	2311.6	2311.6	2311.6	2311.6
2.5°	2315.7	2310.7	2311.6	2298.5	2299.7
5°	2305.9	2299.3	2297.1	2280.3	2284.1
7.5°	2288.3	2279.6	2272.5	2252.5	2255.4
10°	2264.1	2252.4	2239.3	2214.1	2215.2
12.5°	2232.8	2218.5	2198.0	2168.1	2169.5
15°	2194.2	2177.0	2148.1	2115.1	2115.0
17.5°	2151.3	2131.1	2092.9	2057.3	2059.4
20°	2101.0	2077.6	2032.5	1995.6	1996.9
22.5°	2044.9	2017.6	1969.5	1932.1	1930.9
25°	1984.6	1953.6	1900.6	1864.8	1863.8
27.5°	1919.6	1884.9	1829.0	1795.2	1795.7
30°	1849.5	1812.2	1754.9	1725.5	1727.1
32.5°	1775.7	1736.6	1679.6	1656.2	1660.1
35°	1699.1	1657.1	1601.1	1583.8	1588.5
37.5°	1619.0	1577.4	1523.5	1512.4	1517.0
40°	1535.1	1494.3	1444.9	1438.0	1443.6
42.5°	1450.0	1410.0	1365.8	1363.2	1369.3
45°	1363.3	1322.9	1285.1	1285.9	1292.4
47.5°	1276.3	1236.5	1204.4	1207.9	1213.8
50°	1186.0	1148.4	1121.2	1126.9	1131.6
52.5°	1093.3	1058.2	1037.2	1044.8	1052.9
55°	1003.2	969.0	952.0	960.8	966.5
57.5°	909.9	880.2	866.7	876.0	882.7
60°	816.9	788.9	778.7	791.0	799.4
62.5°	722.9	697.2	691.7	705.5	713.5
65°	629.6	607.0	603.9	618.6	626.5
67.5°	536.6	516.4	518.9	536.7	541.5
70°	441.7	425.0	434.7	449.8	453.6
72.5°	353.1	339.1	353.6	366.6	368.8
75°	267.7	258.5	277.1	286.4	289.9
77.5°	189.9	187.3	203.6	213.0	217.0
80°	123.2	126.9	139.8	150.3	152.5
82.5°	70.2	75.7	87.8	102.0	107.5
85°	32.7	38.7	51.3	63.0	68.2
87.5°	11.0	15.3	21.8	23.8	22.8
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	17.28	18.87	17.65	19.18	19.49	17.22	18.80	17.58	19.12	19.43
	3H	18.76	20.19	19.14	20.51	20.88	18.80	20.23	19.18	20.56	20.92
	4H	19.20	20.54	19.60	20.89	21.26	19.31	20.65	19.71	21.00	21.37
	6H	19.42	20.66	19.83	21.02	21.41	19.61	20.85	20.03	21.22	21.61
	8H	19.45	20.63	19.88	21.02	21.42	19.70	20.88	20.13	21.27	21.67
	12H	19.45	20.58	19.88	20.97	21.39	19.76	20.89	20.19	21.27	21.70
4H	2H	17.80	19.14	18.20	19.49	19.87	17.75	19.09	18.15	19.44	19.82
	3H	19.47	20.58	19.88	20.98	21.38	19.53	20.65	19.94	21.05	21.45
	4H	19.99	21.00	20.42	21.41	21.85	20.15	21.15	20.58	21.57	22.00
	6H	20.29	21.17	20.75	21.61	22.07	20.55	21.42	21.00	21.87	22.32
	8H	20.35	21.16	20.81	21.61	22.07	20.67	21.48	21.13	21.93	22.39
	12H	20.36	21.10	20.85	21.57	22.04	20.76	21.49	21.24	21.97	22.44
8H	4H	20.20	21.02	20.66	21.46	21.93	20.34	21.16	20.80	21.60	22.07
	6H	20.57	21.24	21.06	21.73	22.21	20.82	21.50	21.32	21.99	22.46
	8H	20.65	21.25	21.16	21.76	22.25	20.99	21.59	21.50	22.10	22.59
	12H	20.69	21.23	21.20	21.72	22.28	21.14	21.67	21.64	22.16	22.72
12H	4H	20.21	20.94	20.69	21.42	21.89	20.34	21.07	20.82	21.55	22.02
	6H	20.58	21.19	21.09	21.70	22.18	20.83	21.43	21.34	21.94	22.43
	8H	20.70	21.24	21.21	21.73	22.29	21.04	21.57	21.54	22.06	22.62