

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: P1498806

Luminaire Tested: MAE-G-2-120-3STD-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498806
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

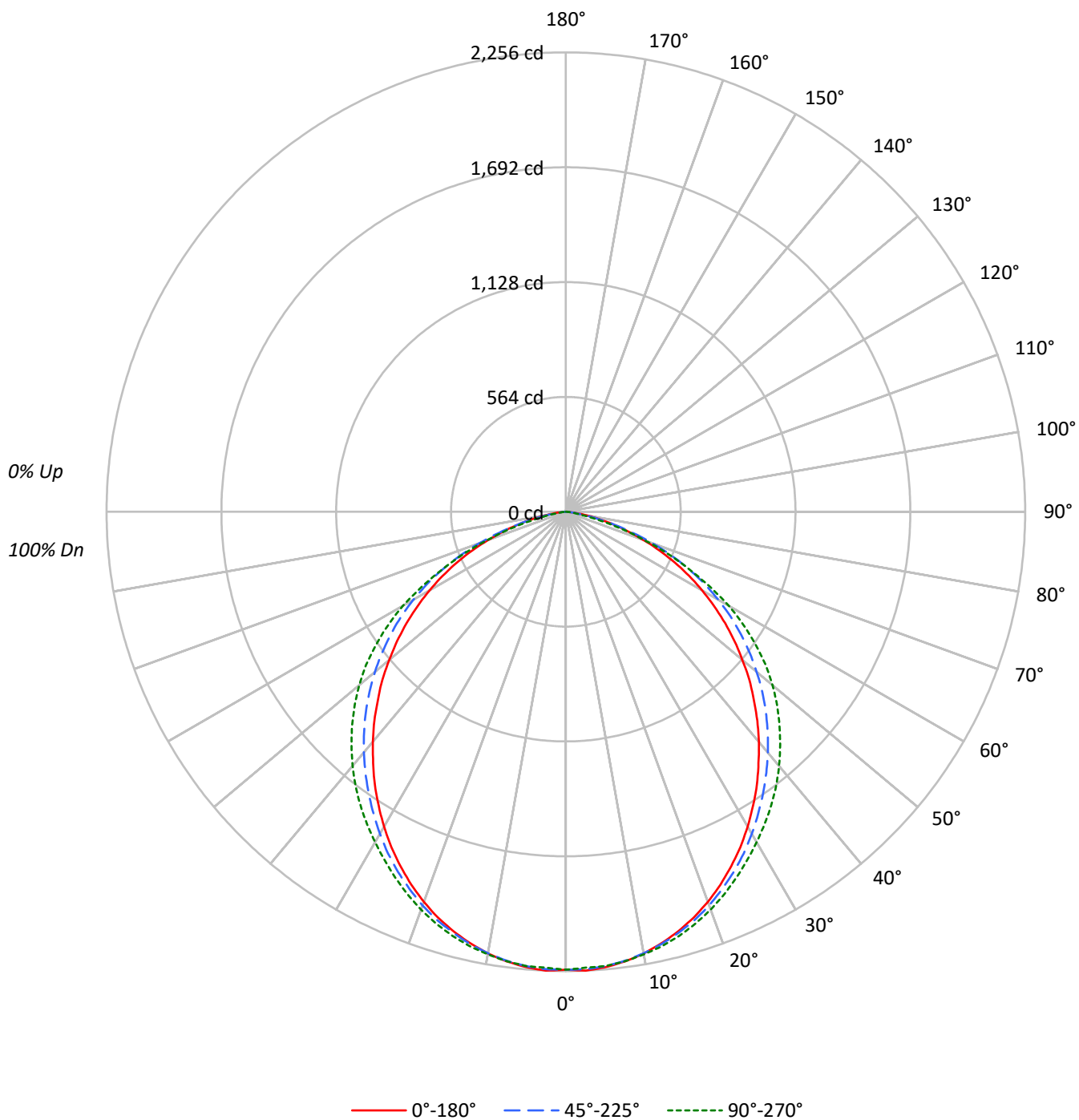
Lumens per Lamp: N/A
Luminaire Lumens: 5699.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	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	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6051	6051	6051
5°	6064	6051	6048
10°	6019	6016	6031
15°	5943	5962	6005
20°	5839	5893	5954
25°	5704	5795	5886
30°	5549	5675	5824
35°	5375	5546	5779
40°	5179	5420	5722
45°	4968	5286	5649
50°	4738	5123	5548
55°	4483	4925	5334
60°	4161	4653	4978
65°	3757	4244	4264
70°	3207	3563	3313
75°	2518	2599	2038
80°	1644	1337	789
85°	787	528	420

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5649 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	3.7
10°-20°	603.0	10.6
20°-30°	896.8	15.7
30°-40°	1056.8	18.5
40°-50°	1071.5	18.8
50°-60°	933.7	16.4
60°-70°	638.6	11.2
70°-80°	256.5	4.5
80°-90°	29.7	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°	1712.2	30.0
0°-40°	2769.0	48.6
0°-60°	4774.2	83.8
0°-90°	5699.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2249	2249	2249	2249	2249	
5°	2245	2231	2240	2238	2239	213
15°	2133	2124	2140	2149	2156	601
25°	1921	1922	1952	1966	1982	884
35°	1636	1643	1688	1730	1759	1022
45°	1306	1323	1389	1452	1484	1008
55°	956	976	1050	1116	1137	853
65°	590	617	666	672	670	583
75°	242	258	250	215	196	260
85°	26	23	17	15	14	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2248.6	2248.6	2248.6	2248.6	2248.6
2.5°	2255.8	2240.7	2248.6	2246.9	2241.2
5°	2244.9	2231.3	2240.2	2237.6	2239.1
7.5°	2227.2	2214.8	2224.1	2223.6	2226.2
10°	2202.8	2190.3	2201.8	2203.9	2207.0
12.5°	2170.5	2160.2	2174.2	2178.3	2184.6
15°	2133.1	2123.8	2139.9	2148.7	2155.5
17.5°	2089.4	2081.6	2102.4	2110.8	2120.1
20°	2039.0	2033.3	2057.7	2065.5	2079.1
22.5°	1982.9	1979.8	2005.2	2017.1	2032.8
25°	1921.0	1921.5	1951.6	1965.8	1982.3
27.5°	1856.0	1857.1	1891.4	1911.1	1928.8
30°	1785.8	1788.9	1826.4	1850.9	1874.2
32.5°	1711.5	1717.7	1758.2	1791.6	1817.5
35°	1636.1	1643.3	1688.1	1729.6	1759.3
37.5°	1554.5	1566.5	1616.9	1666.3	1696.9
40°	1474.4	1486.4	1543.0	1597.6	1628.8
42.5°	1391.8	1406.8	1467.2	1528.0	1558.1
45°	1305.5	1323.1	1389.1	1451.5	1484.3
47.5°	1222.8	1238.4	1308.0	1373.1	1406.8
50°	1131.7	1151.5	1223.8	1291.9	1325.3
52.5°	1045.0	1063.1	1137.5	1207.2	1237.4
55°	955.6	975.8	1049.7	1115.7	1137.0
57.5°	864.0	888.5	959.7	1014.9	1035.1
60°	773.1	797.5	864.6	909.9	924.9
62.5°	682.6	708.6	767.4	797.5	797.5
65°	590.1	616.6	666.5	671.6	669.6
67.5°	497.6	524.1	562.0	552.6	546.4
70°	407.6	430.5	452.9	435.6	421.1
72.5°	320.3	342.1	345.8	320.8	302.6
75°	242.2	258.4	250.0	214.8	196.0
77.5°	168.9	178.3	160.6	124.8	109.7
80°	106.1	110.2	86.3	60.8	50.9
82.5°	57.2	57.7	37.5	30.7	28.6
85°	25.5	22.9	17.1	15.1	13.6
87.5°	8.8	7.8	6.2	5.7	4.7
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	17.18	18.76	17.55	19.08	19.39	18.16	19.75	18.53	20.06	20.38
	3H	18.59	20.01	18.97	20.34	20.70	19.37	20.79	19.75	21.12	21.48
	4H	18.98	20.32	19.38	20.67	21.04	19.59	20.92	19.98	21.27	21.64
	6H	19.16	20.39	19.57	20.76	21.15	19.60	20.83	20.01	21.20	21.59
	8H	19.17	20.35	19.60	20.74	21.14	19.58	20.75	20.00	21.14	21.54
	12H	19.16	20.29	19.59	20.67	21.10	19.55	20.68	19.98	21.06	21.49
4H	2H	17.85	19.19	18.25	19.53	19.91	18.64	19.98	19.04	20.32	20.70
	3H	19.42	20.53	19.83	20.92	21.33	20.01	21.12	20.42	21.52	21.92
	4H	19.90	20.89	20.33	21.30	21.74	20.28	21.28	20.72	21.69	22.13
	6H	20.14	21.00	20.59	21.44	21.90	20.34	21.20	20.79	21.64	22.10
	8H	20.16	20.96	20.62	21.41	21.87	20.31	21.12	20.77	21.56	22.03
	12H	20.16	20.88	20.64	21.36	21.83	20.29	21.01	20.77	21.49	21.96
8H	4H	20.04	20.85	20.50	21.29	21.76	20.40	21.21	20.86	21.65	22.12
	6H	20.32	20.98	20.81	21.47	21.95	20.46	21.12	20.96	21.61	22.09
	8H	20.36	20.95	20.87	21.46	21.95	20.44	21.03	20.95	21.54	22.03
	12H	20.37	20.89	20.88	21.38	21.95	20.43	20.95	20.93	21.44	22.00
12H	4H	20.02	20.74	20.51	21.22	21.69	20.39	21.11	20.87	21.59	22.06
	6H	20.29	20.88	20.80	21.39	21.88	20.44	21.03	20.95	21.54	22.03
	8H	20.35	20.87	20.86	21.37	21.93	20.44	20.96	20.95	21.45	22.02