

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: P1498812

Luminaire Tested: MAE-G-2-120-3STD-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498812
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-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

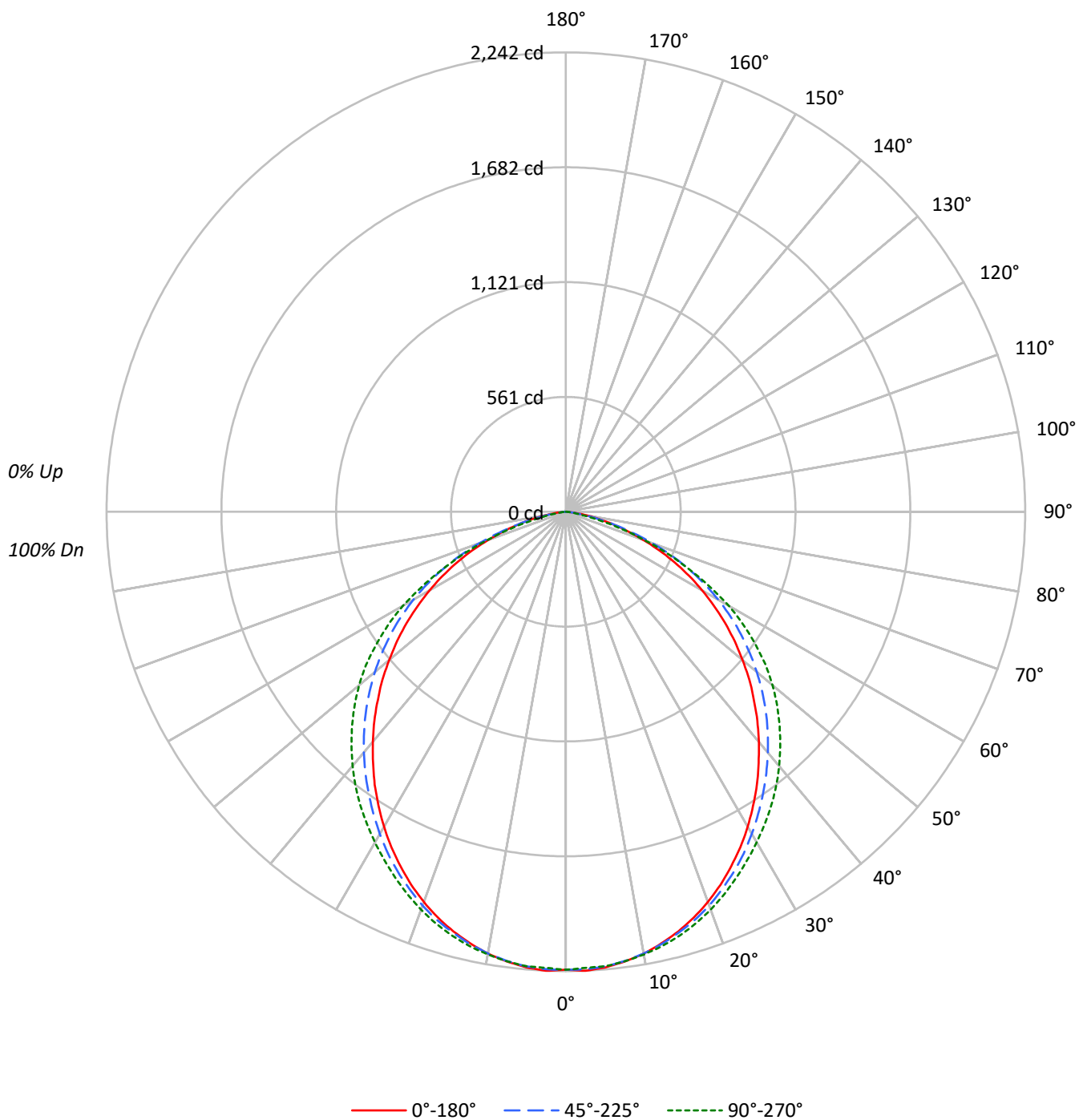
Lumens per Lamp: N/A
Luminaire Lumens: 5665.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6015	6015	6015
5°	6028	6015	6012
10°	5983	5981	5995
15°	5907	5926	5969
20°	5804	5857	5918
25°	5670	5760	5851
30°	5516	5641	5789
35°	5343	5513	5745
40°	5148	5388	5688
45°	4939	5255	5615
50°	4710	5093	5515
55°	4457	4895	5303
60°	4136	4625	4948
65°	3734	4218	4238
70°	3188	3542	3294
75°	2504	2585	2026
80°	1633	1330	784
85°	784	525	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5615 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	3.7
10°-20°	599.4	10.6
20°-30°	891.5	15.7
30°-40°	1050.5	18.5
40°-50°	1065.1	18.8
50°-60°	928.1	16.4
60°-70°	634.7	11.2
70°-80°	255.0	4.5
80°-90°	29.6	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°	1702.0	30.0
0°-40°	2752.5	48.6
0°-60°	4745.7	83.8
0°-90°	5665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5665.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2235	2235	2235	2235	2235	
5°	2232	2218	2227	2224	2226	212
15°	2120	2111	2127	2136	2143	597
25°	1910	1910	1940	1954	1970	879
35°	1626	1634	1678	1719	1749	1016
45°	1298	1315	1381	1443	1475	1002
55°	950	970	1043	1109	1130	848
65°	586	613	662	668	666	580
75°	241	257	249	214	195	259
85°	25	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°	2235.1	2235.1	2235.1	2235.1	2235.1
2.5°	2242.3	2227.4	2235.1	2233.5	2227.8
5°	2231.5	2218.0	2226.8	2224.3	2225.8
7.5°	2213.9	2201.6	2210.8	2210.4	2212.9
10°	2189.7	2177.2	2188.7	2190.7	2193.8
12.5°	2157.6	2147.3	2161.2	2165.4	2171.5
15°	2120.3	2111.1	2127.1	2135.9	2142.6
17.5°	2076.9	2069.2	2089.9	2098.2	2107.4
20°	2026.8	2021.2	2045.4	2053.2	2066.7
22.5°	1971.1	1968.0	1993.2	2005.1	2020.6
25°	1909.5	1910.1	1940.0	1954.0	1970.5
27.5°	1845.0	1846.0	1880.1	1899.7	1917.3
30°	1775.2	1778.2	1815.5	1839.8	1863.0
32.5°	1701.3	1707.4	1747.7	1780.9	1806.7
35°	1626.3	1633.5	1678.1	1719.3	1748.8
37.5°	1545.2	1557.1	1607.3	1656.4	1686.8
40°	1465.6	1477.5	1533.8	1588.1	1619.1
42.5°	1383.5	1398.4	1458.4	1518.8	1548.8
45°	1297.7	1315.2	1380.9	1442.9	1475.4
47.5°	1215.5	1231.0	1300.2	1364.9	1398.4
50°	1125.0	1144.6	1216.5	1284.2	1317.4
52.5°	1038.8	1056.8	1130.7	1200.0	1230.0
55°	949.9	970.0	1043.4	1109.0	1130.3
57.5°	858.9	883.2	954.0	1008.8	1028.9
60°	768.5	792.7	859.4	904.4	919.4
62.5°	678.5	704.4	762.8	792.7	792.7
65°	586.5	612.9	662.5	667.6	665.6
67.5°	494.6	521.0	558.7	549.3	543.1
70°	405.2	427.9	450.2	433.0	418.6
72.5°	318.3	340.0	343.7	318.9	300.8
75°	240.8	256.9	248.6	213.5	194.9
77.5°	167.9	177.3	159.7	124.0	109.1
80°	105.4	109.5	85.8	60.4	50.6
82.5°	56.9	57.3	37.2	30.5	28.4
85°	25.4	22.7	17.0	15.0	13.5
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	17.16	18.74	17.53	19.06	19.37	18.14	19.73	18.51	20.04	20.35
	3H	18.57	19.99	18.95	20.32	20.68	19.35	20.77	19.72	21.10	21.46
	4H	18.96	20.30	19.36	20.65	21.02	19.56	20.90	19.96	21.25	21.62
	6H	19.14	20.37	19.55	20.74	21.13	19.58	20.81	19.99	21.18	21.57
	8H	19.15	20.33	19.58	20.72	21.12	19.56	20.73	19.98	21.12	21.52
	12H	19.14	20.27	19.57	20.65	21.08	19.53	20.66	19.96	21.04	21.47
4H	2H	17.83	19.16	18.23	19.51	19.89	18.62	19.96	19.02	20.30	20.68
	3H	19.40	20.51	19.81	20.90	21.30	19.99	21.10	20.40	21.49	21.90
	4H	19.88	20.87	20.31	21.28	21.72	20.26	21.26	20.70	21.67	22.11
	6H	20.12	20.98	20.57	21.42	21.88	20.31	21.18	20.77	21.62	22.08
	8H	20.14	20.94	20.60	21.39	21.85	20.29	21.09	20.75	21.54	22.00
	12H	20.14	20.86	20.62	21.34	21.81	20.27	20.99	20.75	21.47	21.94
8H	4H	20.02	20.83	20.48	21.27	21.74	20.38	21.19	20.84	21.63	22.10
	6H	20.30	20.96	20.79	21.45	21.92	20.44	21.10	20.94	21.59	22.07
	8H	20.34	20.93	20.85	21.44	21.92	20.42	21.01	20.93	21.52	22.01
	12H	20.35	20.87	20.86	21.36	21.93	20.40	20.93	20.91	21.42	21.98
12H	4H	20.00	20.72	20.48	21.20	21.67	20.37	21.09	20.85	21.57	22.04
	6H	20.27	20.86	20.78	21.37	21.86	20.42	21.01	20.93	21.52	22.01
	8H	20.33	20.85	20.84	21.35	21.91	20.42	20.94	20.93	21.43	22.00