

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: P1499274

Luminaire Tested: MAE-G-4-120-2LO-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499274
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-4-120-2LO-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

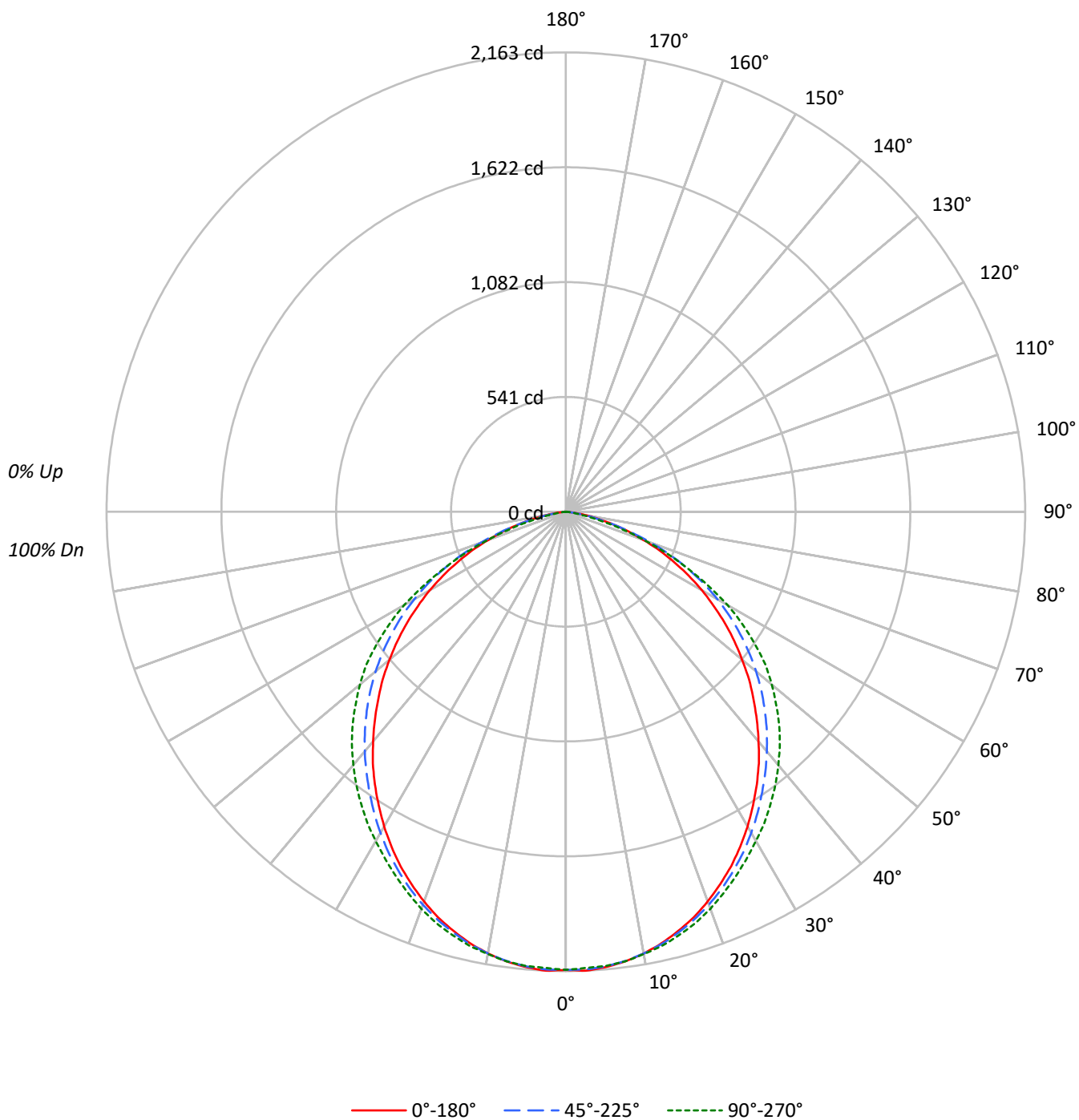
Lumens per Lamp: N/A
Luminaire Lumens: 5445.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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	97	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	58	69	62	57		67	61	56		65
5	78	65	57	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	45	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	37	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°	2902	2902	2902
5°	2907	2903	2900
10°	2885	2885	2889
15°	2846	2857	2874
20°	2796	2819	2848
25°	2734	2770	2811
30°	2658	2713	2781
35°	2575	2647	2760
40°	2479	2587	2734
45°	2378	2523	2704
50°	2268	2447	2649
55°	2143	2349	2550
60°	1991	2217	2367
65°	1796	2015	2027
70°	1533	1677	1567
75°	1203	1214	979
80°	783	625	375
85°	363	238	193

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2704 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.7	3.7
10°-20°	577.8	10.6
20°-30°	858.4	15.8
30°-40°	1011.1	18.6
40°-50°	1024.3	18.8
50°-60°	891.6	16.4
60°-70°	607.5	11.2
70°-80°	242.8	4.5
80°-90°	27.8	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°	1639.9	30.1
0°-40°	2651.0	48.7
0°-60°	4566.9	83.9
0°-90°	5445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5445.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2157	2157	2157	2157	2157	
5°	2153	2140	2149	2146	2147	204
15°	2044	2035	2051	2058	2063	576
25°	1841	1842	1866	1881	1894	847
35°	1567	1575	1612	1654	1680	980
45°	1250	1265	1326	1388	1421	964
55°	913	933	1001	1064	1087	816
65°	564	590	633	634	637	559
75°	232	245	234	201	188	249
85°	24	21	15	14	12	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2157.0	2157.0	2157.0	2157.0	2157.0
2.5°	2163.0	2149.1	2157.0	2155.6	2149.7
5°	2152.7	2140.2	2149.1	2146.2	2146.8
7.5°	2135.8	2124.2	2133.7	2132.9	2135.2
10°	2111.7	2100.0	2111.7	2112.4	2114.6
12.5°	2081.6	2071.4	2085.3	2088.2	2093.4
15°	2043.5	2034.8	2050.8	2058.3	2063.3
17.5°	2002.6	1996.8	2012.8	2022.3	2030.4
20°	1952.7	1949.8	1968.9	1978.3	1989.3
22.5°	1898.5	1897.0	1919.9	1931.5	1942.5
25°	1841.3	1842.2	1865.6	1881.0	1893.5
27.5°	1778.4	1779.8	1808.5	1826.8	1842.2
30°	1711.0	1714.7	1746.2	1771.1	1790.2
32.5°	1640.0	1646.6	1680.3	1714.7	1738.9
35°	1567.4	1574.9	1611.5	1653.9	1680.3
37.5°	1492.8	1500.9	1543.3	1593.2	1621.0
40°	1411.5	1423.8	1473.0	1527.9	1556.4
42.5°	1331.6	1345.5	1400.5	1460.6	1491.3
45°	1249.6	1265.0	1325.7	1388.1	1420.9
47.5°	1170.5	1183.6	1248.8	1314.1	1343.4
50°	1083.4	1100.9	1169.0	1234.3	1265.7
52.5°	999.8	1016.7	1086.3	1152.8	1185.2
55°	913.4	933.1	1001.3	1064.3	1086.9
57.5°	826.3	849.0	914.8	966.8	986.6
60°	739.8	762.5	824.0	865.0	879.7
62.5°	652.6	676.1	730.3	755.2	758.1
65°	564.0	590.4	632.8	633.6	636.6
67.5°	479.8	501.7	532.5	523.7	519.3
70°	389.7	413.8	426.3	408.8	398.4
72.5°	309.9	327.3	325.2	299.5	287.2
75°	231.5	245.4	233.6	200.7	188.3
77.5°	160.4	172.1	148.6	117.9	105.6
80°	101.0	106.2	80.6	57.1	48.4
82.5°	54.2	53.4	34.5	28.5	26.4
85°	23.5	21.2	15.4	13.9	12.5
87.5°	8.1	7.3	5.8	5.2	4.4
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	14.62	16.20	14.98	16.51	16.83	15.58	17.16	15.94	17.47	17.79
	3H	16.04	17.46	16.42	17.79	18.15	16.77	18.19	17.15	18.52	18.88
	4H	16.43	17.77	16.83	18.11	18.49	16.98	18.32	17.38	18.66	19.04
	6H	16.61	17.84	17.02	18.20	18.59	17.00	18.23	17.41	18.60	18.99
	8H	16.62	17.79	17.05	18.18	18.58	16.98	18.15	17.40	18.54	18.94
	12H	16.61	17.73	17.04	18.11	18.54	16.95	18.07	17.38	18.46	18.89
4H	2H	15.28	16.61	15.68	16.96	17.34	16.05	17.39	16.45	17.73	18.11
	3H	16.86	17.96	17.27	18.36	18.76	17.40	18.51	17.81	18.91	19.31
	4H	17.33	18.32	17.76	18.74	19.18	17.67	18.66	18.10	19.08	19.52
	6H	17.57	18.43	18.03	18.88	19.33	17.72	18.58	18.18	19.02	19.48
	8H	17.60	18.40	18.06	18.84	19.31	17.70	18.50	18.16	18.94	19.41
	12H	17.59	18.31	18.08	18.79	19.26	17.68	18.39	18.16	18.87	19.34
8H	4H	17.47	18.27	17.93	18.72	19.18	17.79	18.59	18.25	19.03	19.50
	6H	17.74	18.41	18.24	18.90	19.37	17.84	18.51	18.34	19.00	19.47
	8H	17.78	18.37	18.30	18.88	19.37	17.82	18.41	18.33	18.92	19.41
	12H	17.80	18.32	18.30	18.81	19.37	17.81	18.33	18.31	18.82	19.38
12H	4H	17.45	18.17	17.93	18.65	19.12	17.77	18.49	18.26	18.97	19.44
	6H	17.71	18.31	18.23	18.82	19.30	17.82	18.41	18.33	18.92	19.41
	8H	17.78	18.30	18.29	18.79	19.35	17.82	18.34	18.33	18.83	19.40