

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: P1498770

Luminaire Tested: MAE-G-2-120-3LO-STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498770
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-2-120-3LO-STD-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

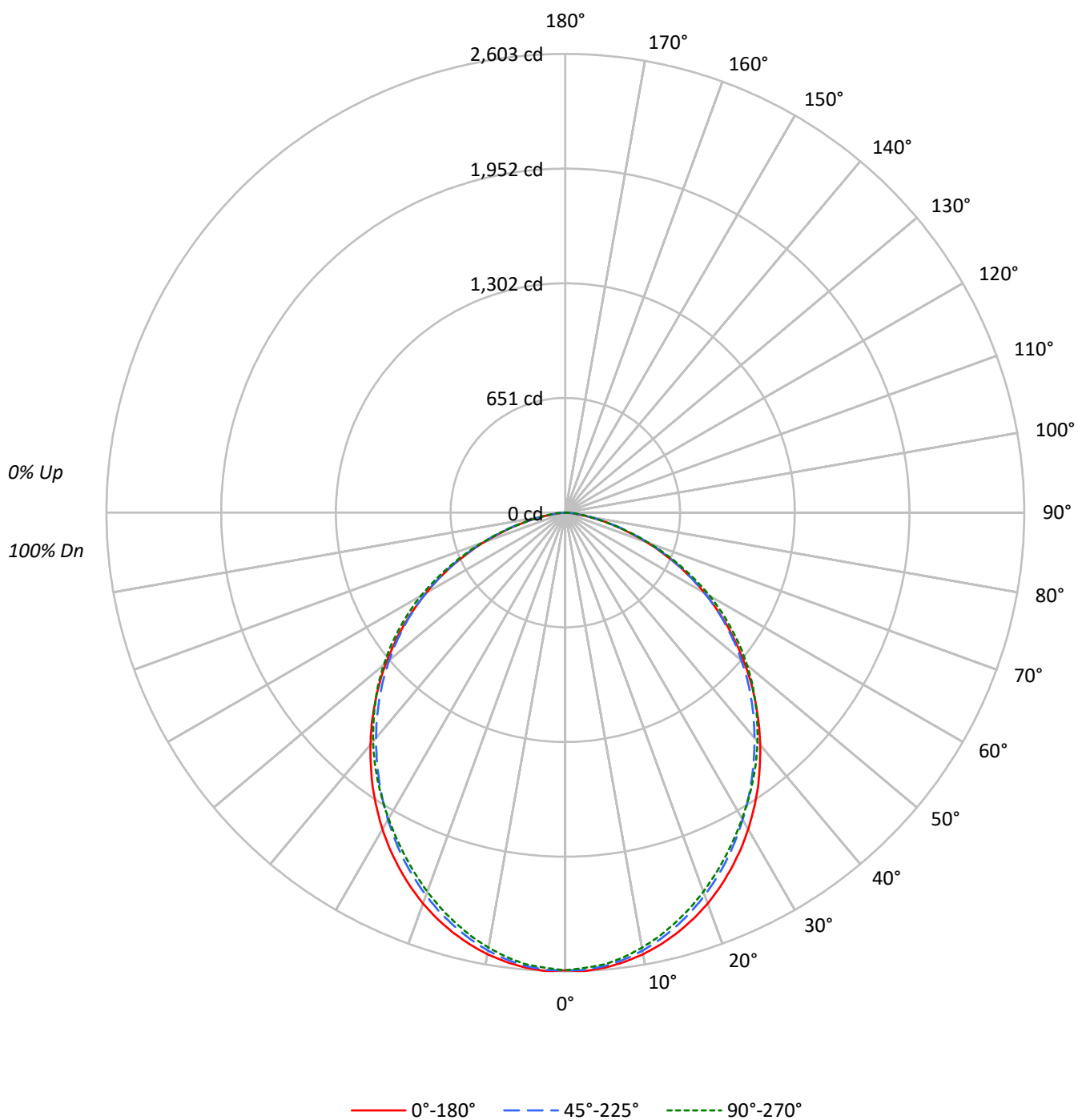
Lumens per Lamp: N/A
Luminaire Lumens: 6342.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 71.5
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	90	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64
5	78	65	56	50	75	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	41	35	61	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	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6989	6989	6989
5°	7001	6977	6948
10°	6953	6896	6849
15°	6870	6770	6712
20°	6759	6618	6555
25°	6613	6445	6386
30°	6446	6251	6230
35°	6256	6056	6095
40°	6042	5866	5956
45°	5808	5673	5804
50°	5553	5458	5630
55°	5264	5212	5395
60°	4907	4903	5100
65°	4464	4497	4618
70°	3854	3943	3978
75°	3070	3198	3103
80°	2081	2204	2179
85°	1087	1470	1856

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5808 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	3.9
10°-20°	684.7	10.8
20°-30°	1002.2	15.8
30°-40°	1163.0	18.3
40°-50°	1161.9	18.3
50°-60°	1001.8	15.8
60°-70°	700.4	11.0
70°-80°	323.3	5.1
80°-90°	60.3	1.0
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°	1931.1	30.5
0°-40°	3094.2	48.8
0°-60°	5257.9	82.9
0°-90°	6342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6342.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2597	2597	2597	2597	2597	
5°	2592	2582	2583	2568	2572	246
15°	2466	2449	2430	2406	2409	695
25°	2227	2202	2171	2145	2151	1026
35°	1904	1872	1844	1842	1856	1190
45°	1526	1500	1491	1510	1525	1177
55°	1122	1100	1111	1139	1150	1002
65°	701	691	706	721	725	693
75°	295	294	308	304	298	317
85°	35	39	48	56	60	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2597.1	2597.1	2597.1	2597.1	2597.1
2.5°	2603.2	2594.1	2597.1	2585.9	2585.3
5°	2591.7	2581.8	2582.7	2568.3	2572.3
7.5°	2571.6	2560.6	2557.5	2541.1	2544.4
10°	2544.5	2530.9	2523.6	2504.2	2506.4
12.5°	2508.5	2493.6	2481.1	2458.5	2461.9
15°	2465.9	2448.9	2430.2	2406.5	2409.2
17.5°	2416.7	2397.1	2374.1	2347.2	2352.2
20°	2360.3	2338.4	2311.1	2282.8	2289.0
22.5°	2296.9	2273.2	2242.6	2215.7	2221.3
25°	2227.3	2202.1	2170.6	2145.2	2150.9
27.5°	2154.0	2125.8	2092.9	2071.8	2078.5
30°	2074.6	2044.9	2011.8	1995.1	2005.1
32.5°	1990.8	1960.6	1929.1	1919.5	1931.3
35°	1904.5	1872.4	1843.5	1841.5	1855.5
37.5°	1811.9	1783.2	1757.5	1763.1	1777.3
40°	1719.9	1690.1	1669.9	1680.5	1695.6
42.5°	1624.6	1597.0	1581.3	1597.7	1611.4
45°	1526.2	1499.5	1490.6	1510.1	1525.2
47.5°	1429.0	1402.3	1398.9	1421.1	1437.9
50°	1326.5	1302.7	1303.8	1330.2	1344.8
52.5°	1223.5	1200.9	1208.0	1236.5	1251.2
55°	1122.1	1100.5	1111.0	1139.2	1149.9
57.5°	1016.6	1000.5	1013.0	1038.5	1050.2
60°	911.8	896.9	911.0	936.3	947.7
62.5°	806.6	794.4	809.4	831.8	837.1
65°	701.1	690.7	706.2	721.4	725.3
67.5°	594.1	587.5	603.9	615.2	616.6
70°	489.8	482.6	501.1	508.4	505.6
72.5°	388.4	385.2	400.4	403.8	397.7
75°	295.3	293.6	307.6	303.7	298.4
77.5°	209.0	208.9	219.1	213.9	211.6
80°	134.3	138.2	142.2	142.3	140.6
82.5°	75.6	80.8	84.0	93.2	97.2
85°	35.2	39.1	47.6	56.3	60.1
87.5°	12.0	15.1	19.8	21.4	20.1
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	17.69	19.27	18.05	19.59	19.90	17.94	19.53	18.31	19.84	20.16
	3H	19.14	20.57	19.52	20.90	21.26	19.41	20.84	19.79	21.17	21.53
	4H	19.57	20.91	19.97	21.26	21.63	19.82	21.16	20.22	21.51	21.89
	6H	19.78	21.01	20.19	21.38	21.77	20.02	21.26	20.44	21.63	22.02
	8H	19.80	20.98	20.23	21.37	21.77	20.07	21.25	20.49	21.64	22.04
	12H	19.80	20.93	20.23	21.31	21.74	20.09	21.22	20.52	21.61	22.03
4H	2H	18.25	19.59	18.65	19.94	20.32	18.46	19.80	18.86	20.15	20.53
	3H	19.89	21.00	20.30	21.40	21.80	20.12	21.23	20.53	21.63	22.03
	4H	20.40	21.40	20.83	21.82	22.25	20.62	21.63	21.06	22.04	22.48
	6H	20.68	21.55	21.14	22.00	22.45	20.90	21.77	21.36	22.22	22.67
	8H	20.73	21.54	21.19	21.98	22.45	20.97	21.78	21.43	22.23	22.69
	12H	20.74	21.47	21.22	21.95	22.42	21.02	21.75	21.50	22.22	22.69
8H	4H	20.59	21.41	21.05	21.85	22.32	20.80	21.61	21.26	22.05	22.52
	6H	20.93	21.60	21.43	22.09	22.57	21.13	21.80	21.63	22.29	22.77
	8H	21.00	21.60	21.51	22.11	22.60	21.23	21.83	21.74	22.34	22.83
	12H	21.04	21.57	21.55	22.06	22.62	21.32	21.85	21.83	22.34	22.91
12H	4H	20.59	21.32	21.07	21.80	22.27	20.79	21.52	21.27	22.00	22.47
	6H	20.93	21.53	21.44	22.04	22.53	21.13	21.73	21.64	22.24	22.73
	8H	21.04	21.57	21.55	22.06	22.62	21.27	21.80	21.77	22.29	22.85