

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: P1498758

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498758
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-LO-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

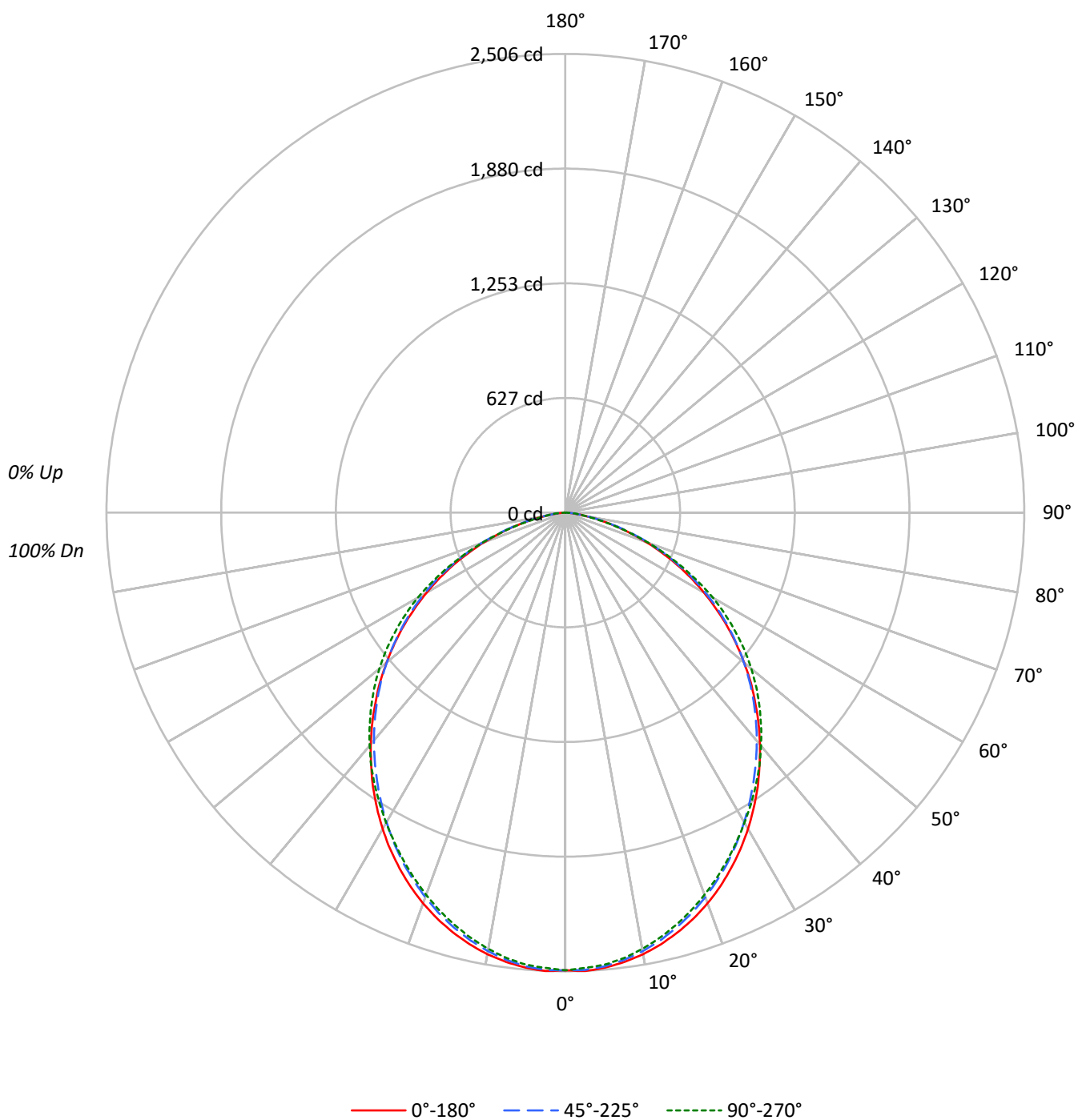
Lumens per Lamp: N/A
Luminaire Lumens: 6145.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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	81	98	91	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	57		67	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	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	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6728	6728	6728
5°	6740	6719	6696
10°	6694	6647	6613
15°	6613	6537	6498
20°	6505	6402	6363
25°	6363	6245	6216
30°	6200	6068	6079
35°	6015	5888	5963
40°	5807	5712	5841
45°	5581	5533	5706
50°	5333	5330	5547
55°	5054	5096	5319
60°	4708	4797	5017
65°	4278	4395	4496
70°	3685	3824	3804
75°	2930	3047	2864
80°	1974	2013	1891
85°	1016	1275	1562

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	3.8
10°-20°	661.1	10.8
20°-30°	970.3	15.8
30°-40°	1129.1	18.4
40°-50°	1131.0	18.4
50°-60°	977.0	15.9
60°-70°	680.4	11.1
70°-80°	306.9	5.0
80°-90°	53.8	0.9
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°	1866.8	30.4
0°-40°	2995.9	48.8
0°-60°	5103.9	83.1
0°-90°	6145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2500	2500	2500	2500	2500	
5°	2495	2485	2487	2475	2479	237
15°	2374	2358	2346	2329	2332	669
25°	2143	2123	2103	2086	2094	987
35°	1831	1807	1792	1798	1815	1144
45°	1466	1448	1454	1481	1499	1131
55°	1077	1064	1086	1121	1134	962
65°	672	668	690	703	706	664
75°	282	284	293	283	276	303
85°	33	36	41	48	51	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2500.3	2500.3	2500.3	2500.3	2500.3
2.5°	2506.5	2496.5	2500.3	2491.0	2489.5
5°	2495.3	2484.9	2487.2	2475.3	2478.7
7.5°	2476.0	2464.7	2464.0	2450.9	2454.0
10°	2449.7	2436.4	2432.7	2417.6	2420.0
12.5°	2414.8	2400.9	2393.6	2376.3	2380.1
15°	2373.7	2358.3	2346.4	2329.2	2332.5
17.5°	2326.1	2309.0	2294.6	2274.6	2280.3
20°	2271.4	2252.9	2235.7	2214.6	2222.1
22.5°	2210.3	2190.7	2171.0	2151.8	2159.3
25°	2142.9	2122.9	2103.4	2085.8	2093.5
27.5°	2072.1	2049.7	2029.9	2016.8	2025.5
30°	1995.3	1972.1	1952.8	1944.1	1956.5
32.5°	1914.3	1891.4	1873.8	1872.5	1886.8
35°	1831.1	1806.8	1792.2	1798.5	1815.2
37.5°	1741.7	1721.0	1710.0	1723.8	1740.9
40°	1653.0	1631.4	1626.0	1644.8	1662.7
42.5°	1561.3	1542.1	1540.8	1565.4	1582.2
45°	1466.4	1448.3	1453.8	1481.1	1499.3
47.5°	1373.0	1354.6	1365.0	1395.2	1414.9
50°	1273.9	1258.5	1273.2	1307.1	1325.1
52.5°	1175.2	1160.6	1180.3	1216.3	1233.6
55°	1077.3	1063.8	1086.2	1121.2	1133.7
57.5°	975.7	967.4	990.9	1021.6	1034.9
60°	874.7	867.4	891.4	920.2	932.2
62.5°	773.5	768.8	791.8	815.4	819.6
65°	671.8	668.5	690.2	703.4	706.1
67.5°	568.8	568.5	588.7	596.1	596.1
70°	468.4	467.0	486.0	488.6	483.5
72.5°	370.9	372.5	385.4	383.3	375.0
75°	281.8	283.5	293.1	283.2	275.5
77.5°	198.9	200.7	205.4	194.5	189.8
80°	127.4	131.3	129.9	125.2	122.0
82.5°	71.2	75.5	74.2	80.3	83.1
85°	32.9	35.6	41.3	47.8	50.6
87.5°	11.2	13.5	16.9	18.2	17.0
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	17.55	19.14	17.92	19.45	19.77	17.94	19.53	18.31	19.84	20.15
	3H	19.00	20.43	19.38	20.75	21.12	19.36	20.78	19.74	21.11	21.47
	4H	19.42	20.76	19.82	21.11	21.49	19.73	21.07	20.13	21.42	21.80
	6H	19.62	20.86	20.04	21.23	21.62	19.89	21.13	20.31	21.50	21.89
	8H	19.65	20.83	20.07	21.22	21.62	19.92	21.10	20.35	21.49	21.89
	12H	19.65	20.78	20.08	21.16	21.59	19.94	21.06	20.37	21.45	21.87
4H	2H	18.14	19.48	18.54	19.82	20.20	18.45	19.79	18.85	20.14	20.51
	3H	19.76	20.87	20.17	21.27	21.67	20.06	21.17	20.47	21.57	21.97
	4H	20.27	21.27	20.70	21.68	22.12	20.51	21.51	20.95	21.93	22.37
	6H	20.54	21.41	21.00	21.85	22.31	20.74	21.61	21.20	22.06	22.51
	8H	20.58	21.39	21.04	21.84	22.30	20.79	21.60	21.25	22.05	22.51
	12H	20.59	21.32	21.07	21.80	22.27	20.82	21.55	21.30	22.03	22.50
8H	4H	20.45	21.26	20.91	21.71	22.17	20.68	21.49	21.14	21.93	22.40
	6H	20.78	21.45	21.27	21.94	22.42	20.96	21.63	21.45	22.12	22.59
	8H	20.84	21.44	21.36	21.95	22.44	21.03	21.63	21.54	22.14	22.62
	12H	20.88	21.41	21.39	21.90	22.46	21.09	21.62	21.60	22.11	22.68
12H	4H	20.45	21.17	20.93	21.65	22.12	20.67	21.40	21.15	21.88	22.35
	6H	20.77	21.37	21.28	21.88	22.37	20.95	21.55	21.46	22.06	22.55
	8H	20.87	21.40	21.38	21.89	22.45	21.05	21.58	21.56	22.08	22.64