

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: P1498755

Luminaire Tested: MAE-G-2-120-3LO-LO-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498755
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-35
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

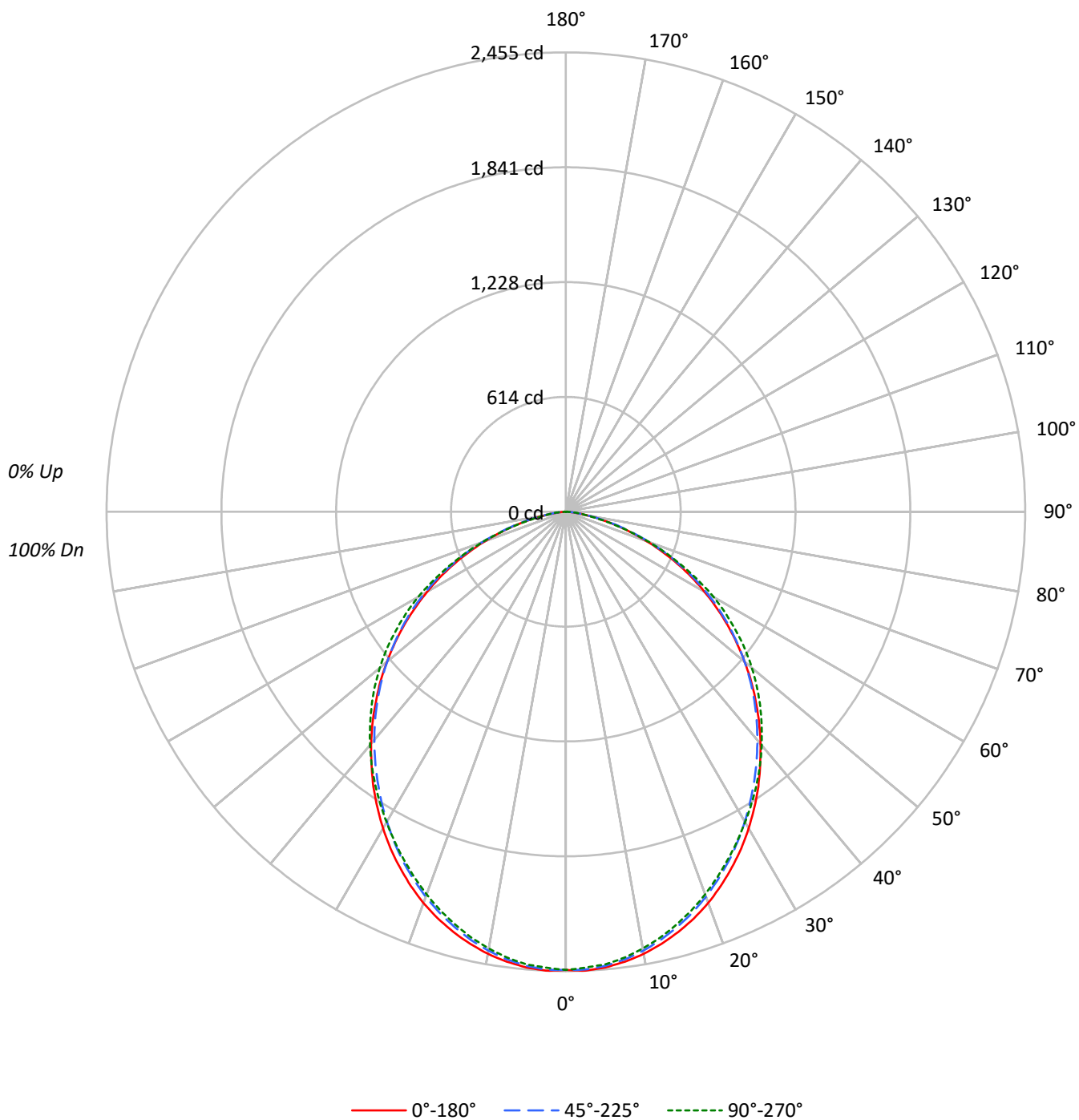
Lumens per Lamp: N/A
Luminaire Lumens: 6018.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	6589	6589	6589
5°	6601	6580	6557
10°	6556	6510	6476
15°	6476	6402	6364
20°	6371	6270	6232
25°	6231	6116	6087
30°	6072	5942	5954
35°	5891	5766	5840
40°	5687	5594	5720
45°	5465	5418	5588
50°	5223	5220	5433
55°	4949	4991	5209
60°	4611	4698	4913
65°	4189	4304	4403
70°	3609	3745	3726
75°	2869	2984	2804
80°	1934	1971	1850
85°	997	1247	1528

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5588 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.5	3.8
10°-20°	647.4	10.8
20°-30°	950.3	15.8
30°-40°	1105.8	18.4
40°-50°	1107.6	18.4
50°-60°	956.9	15.9
60°-70°	666.3	11.1
70°-80°	300.5	5.0
80°-90°	52.7	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°	1828.2	30.4
0°-40°	2934.0	48.8
0°-60°	4998.5	83.1
0°-90°	6018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2449	2449	2449	2449	2449	
5°	2444	2434	2436	2424	2427	232
15°	2325	2310	2298	2281	2284	655
25°	2099	2079	2060	2043	2050	966
35°	1793	1770	1755	1761	1778	1120
45°	1436	1418	1424	1450	1468	1108
55°	1055	1042	1064	1098	1110	942
65°	658	655	676	689	692	650
75°	276	278	287	277	270	296
85°	32	35	40	47	50	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2448.7	2448.7	2448.7	2448.7	2448.7
2.5°	2454.7	2444.9	2448.7	2439.6	2438.0
5°	2443.7	2433.5	2435.8	2424.1	2427.4
7.5°	2424.8	2413.8	2413.1	2400.3	2403.2
10°	2399.1	2386.1	2382.4	2367.7	2370.0
12.5°	2364.9	2351.3	2344.1	2327.2	2331.0
15°	2324.7	2309.6	2297.9	2281.0	2284.3
17.5°	2278.0	2261.3	2247.1	2227.6	2233.2
20°	2224.6	2206.4	2189.5	2168.8	2176.1
22.5°	2164.5	2145.4	2126.1	2107.4	2114.6
25°	2098.7	2079.0	2059.9	2042.6	2050.2
27.5°	2029.2	2007.3	1988.0	1975.1	1983.6
30°	1954.1	1931.4	1912.4	1903.9	1916.1
32.5°	1874.8	1852.2	1835.1	1833.8	1847.8
35°	1793.3	1769.5	1755.1	1761.3	1777.7
37.5°	1705.7	1685.5	1674.7	1688.2	1704.9
40°	1618.9	1597.8	1592.4	1610.8	1628.4
42.5°	1529.1	1510.2	1509.0	1533.1	1549.4
45°	1436.1	1418.4	1423.7	1450.4	1468.3
47.5°	1344.7	1326.6	1336.8	1366.3	1385.7
50°	1247.6	1232.6	1246.9	1280.1	1297.7
52.5°	1151.0	1136.6	1155.9	1191.1	1208.1
55°	1054.9	1041.8	1063.8	1098.1	1110.3
57.5°	955.5	947.4	970.4	1000.6	1013.6
60°	856.7	849.5	873.0	901.2	912.9
62.5°	757.6	752.9	775.5	798.5	802.7
65°	657.9	654.7	676.0	688.9	691.5
67.5°	557.1	556.8	576.6	583.8	583.7
70°	458.7	457.3	476.0	478.5	473.6
72.5°	363.2	364.8	377.3	375.4	367.3
75°	275.9	277.7	287.0	277.4	269.7
77.5°	194.8	196.5	201.2	190.5	185.9
80°	124.8	128.6	127.2	122.6	119.4
82.5°	69.7	73.9	72.7	78.6	81.3
85°	32.3	34.8	40.4	46.9	49.5
87.5°	11.0	13.2	16.6	17.8	16.6
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	17.48	19.07	17.85	19.38	19.69	17.87	19.45	18.23	19.77	20.08
	3H	18.93	20.36	19.31	20.68	21.04	19.29	20.71	19.67	21.04	21.40
	4H	19.35	20.69	19.75	21.04	21.41	19.66	21.00	20.06	21.35	21.72
	6H	19.55	20.79	19.96	21.15	21.54	19.82	21.06	20.23	21.42	21.81
	8H	19.58	20.76	20.00	21.14	21.54	19.85	21.03	20.27	21.42	21.82
	12H	19.57	20.70	20.00	21.08	21.51	19.86	20.99	20.29	21.37	21.80
4H	2H	18.07	19.40	18.47	19.75	20.13	18.38	19.72	18.78	20.07	20.44
	3H	19.69	20.80	20.10	21.20	21.60	19.98	21.10	20.39	21.49	21.89
	4H	20.19	21.19	20.63	21.61	22.05	20.44	21.44	20.87	21.86	22.29
	6H	20.47	21.34	20.93	21.78	22.24	20.67	21.54	21.13	21.98	22.44
	8H	20.51	21.32	20.97	21.77	22.23	20.72	21.53	21.18	21.97	22.44
	12H	20.52	21.25	21.00	21.72	22.19	20.75	21.48	21.23	21.95	22.42
8H	4H	20.38	21.19	20.84	21.63	22.10	20.60	21.42	21.07	21.86	22.33
	6H	20.71	21.38	21.20	21.87	22.34	20.88	21.55	21.38	22.04	22.52
	8H	20.77	21.37	21.28	21.88	22.37	20.96	21.56	21.47	22.06	22.55
	12H	20.80	21.33	21.31	21.82	22.39	21.02	21.55	21.53	22.04	22.60
12H	4H	20.37	21.10	20.86	21.58	22.05	20.60	21.33	21.08	21.80	22.27
	6H	20.70	21.30	21.21	21.81	22.30	20.88	21.48	21.39	21.99	22.47
	8H	20.80	21.33	21.31	21.82	22.38	20.98	21.51	21.49	22.00	22.57