

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: P1498749

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498749
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-30
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

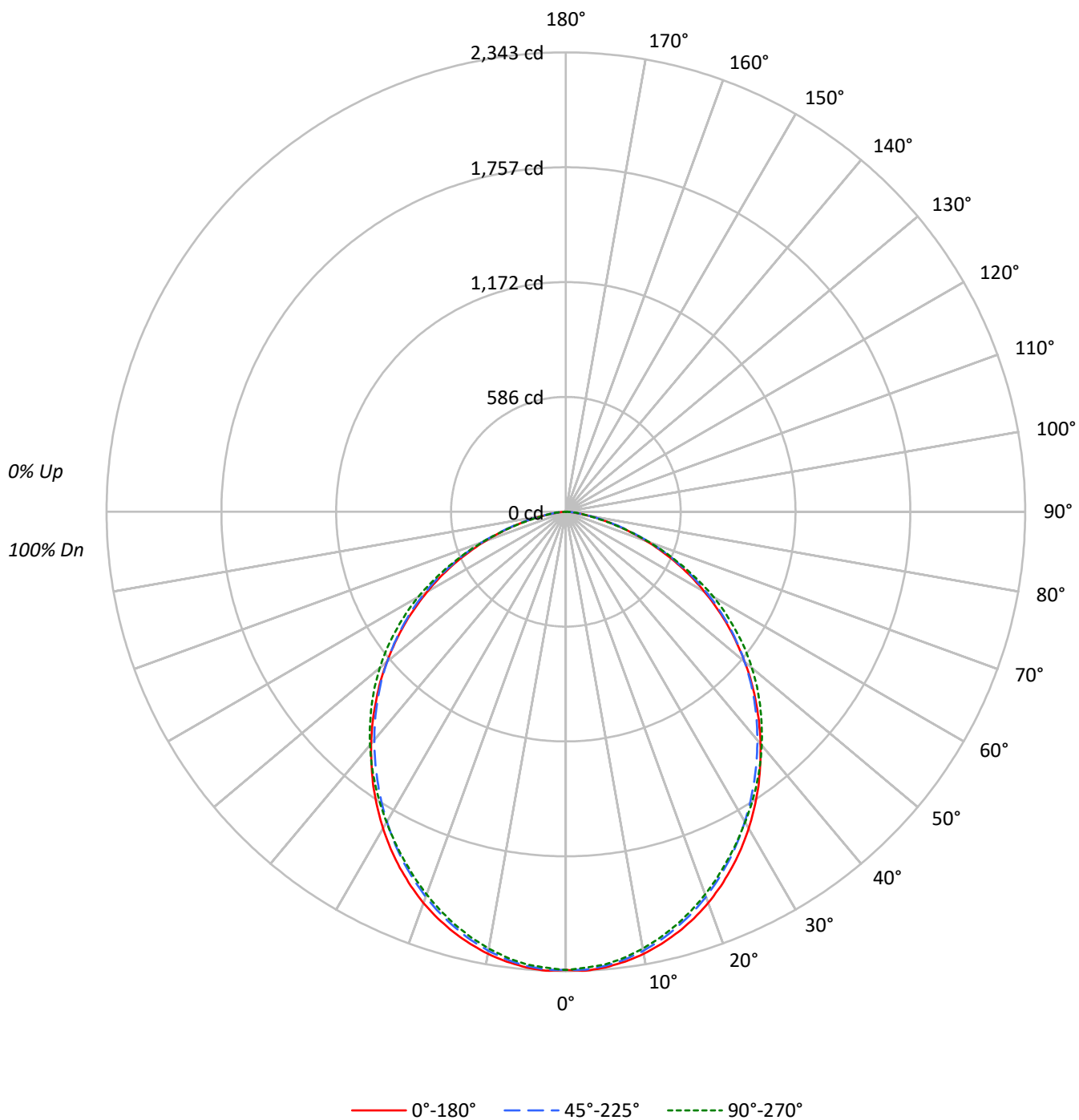
Lumens per Lamp: N/A
Luminaire Lumens: 5744.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	88	86
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	42	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6289	6289	6289
5°	6301	6280	6259
10°	6257	6214	6181
15°	6181	6110	6074
20°	6080	5985	5948
25°	5948	5838	5810
30°	5795	5672	5683
35°	5623	5503	5574
40°	5428	5339	5460
45°	5216	5171	5333
50°	4985	4982	5185
55°	4724	4763	4972
60°	4400	4484	4689
65°	3999	4108	4203
70°	3445	3574	3556
75°	2739	2849	2677
80°	1846	1881	1767
85°	951	1192	1460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5333 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.0	3.8
10°-20°	618.0	10.8
20°-30°	907.0	15.8
30°-40°	1055.4	18.4
40°-50°	1057.2	18.4
50°-60°	913.3	15.9
60°-70°	636.0	11.1
70°-80°	286.8	5.0
80°-90°	50.3	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°	1745.0	30.4
0°-40°	2800.4	48.8
0°-60°	4770.9	83.1
0°-90°	5744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2337	2337	2337	2337	2337	
5°	2332	2323	2325	2314	2317	221
15°	2219	2204	2193	2177	2180	625
25°	2003	1984	1966	1950	1957	922
35°	1712	1689	1675	1681	1697	1069
45°	1371	1354	1359	1384	1401	1058
55°	1007	994	1015	1048	1060	899
65°	628	625	645	658	660	621
75°	263	265	274	265	258	283
85°	31	33	39	45	47	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2337.2	2337.2	2337.2	2337.2	2337.2
2.5°	2343.0	2333.6	2337.2	2328.5	2327.0
5°	2332.5	2322.7	2324.9	2313.7	2317.0
7.5°	2314.4	2303.9	2303.3	2290.9	2293.9
10°	2289.8	2277.5	2274.0	2259.9	2262.1
12.5°	2257.2	2244.3	2237.4	2221.2	2224.9
15°	2218.7	2204.5	2193.3	2177.2	2180.4
17.5°	2174.3	2158.3	2144.8	2126.2	2131.5
20°	2123.3	2105.9	2089.8	2070.0	2077.1
22.5°	2066.0	2047.7	2029.4	2011.4	2018.3
25°	2003.1	1984.3	1966.1	1949.6	1956.8
27.5°	1936.8	1915.9	1897.4	1885.2	1893.3
30°	1865.1	1843.5	1825.3	1817.2	1828.8
32.5°	1789.4	1767.9	1751.6	1750.2	1763.6
35°	1711.7	1689.0	1675.3	1681.1	1696.8
37.5°	1628.1	1608.7	1598.4	1611.3	1627.3
40°	1545.2	1525.0	1519.9	1537.5	1554.3
42.5°	1459.4	1441.5	1440.3	1463.3	1478.9
45°	1370.7	1353.8	1358.8	1384.4	1401.4
47.5°	1283.4	1266.2	1276.0	1304.1	1322.6
50°	1190.8	1176.5	1190.1	1221.9	1238.6
52.5°	1098.5	1084.8	1103.3	1136.9	1153.2
55°	1007.0	994.4	1015.3	1048.1	1059.8
57.5°	912.0	904.3	926.2	955.0	967.3
60°	817.6	810.8	833.2	860.1	871.3
62.5°	723.1	718.6	740.1	762.2	766.2
65°	628.0	624.8	645.2	657.5	660.1
67.5°	531.7	531.4	550.3	557.1	557.1
70°	437.8	436.6	454.3	456.7	452.0
72.5°	346.7	348.2	360.2	358.3	350.5
75°	263.4	264.9	274.0	264.8	257.5
77.5°	186.0	187.6	192.0	181.9	177.5
80°	119.1	122.7	121.4	117.0	114.0
82.5°	66.6	70.6	69.3	75.1	77.6
85°	30.8	33.3	38.6	44.7	47.3
87.5°	10.5	12.7	15.8	17.0	15.9
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	17.32	18.90	17.69	19.22	19.53	17.71	19.29	18.07	19.61	19.92
	3H	18.77	20.19	19.15	20.52	20.88	19.13	20.55	19.50	20.88	21.24
	4H	19.19	20.53	19.59	20.87	21.25	19.50	20.84	19.90	21.18	21.56
	6H	19.39	20.63	19.80	20.99	21.38	19.66	20.90	20.07	21.26	21.65
	8H	19.42	20.59	19.84	20.98	21.38	19.69	20.87	20.11	21.26	21.66
	12H	19.41	20.54	19.84	20.92	21.35	19.70	20.83	20.13	21.21	21.64
4H	2H	17.90	19.24	18.30	19.59	19.97	18.22	19.55	18.62	19.90	20.28
	3H	19.53	20.64	19.94	21.04	21.44	19.82	20.93	20.23	21.33	21.73
	4H	20.03	21.03	20.46	21.45	21.88	20.28	21.28	20.71	21.69	22.13
	6H	20.31	21.18	20.76	21.62	22.08	20.51	21.38	20.97	21.82	22.28
	8H	20.35	21.16	20.81	21.60	22.07	20.56	21.37	21.02	21.81	22.28
	12H	20.36	21.09	20.84	21.56	22.03	20.59	21.32	21.07	21.79	22.26
8H	4H	20.22	21.03	20.68	21.47	21.94	20.44	21.25	20.90	21.70	22.16
	6H	20.54	21.21	21.04	21.70	22.18	20.72	21.39	21.22	21.88	22.36
	8H	20.61	21.21	21.12	21.72	22.21	20.79	21.39	21.31	21.90	22.39
	12H	20.64	21.17	21.15	21.66	22.23	20.86	21.39	21.37	21.88	22.44
12H	4H	20.21	20.94	20.69	21.42	21.89	20.44	21.16	20.92	21.64	22.11
	6H	20.54	21.14	21.05	21.65	22.13	20.71	21.32	21.23	21.82	22.31
	8H	20.64	21.17	21.15	21.66	22.22	20.82	21.35	21.33	21.84	22.40