

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: P1498725

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498725
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-HI-30
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

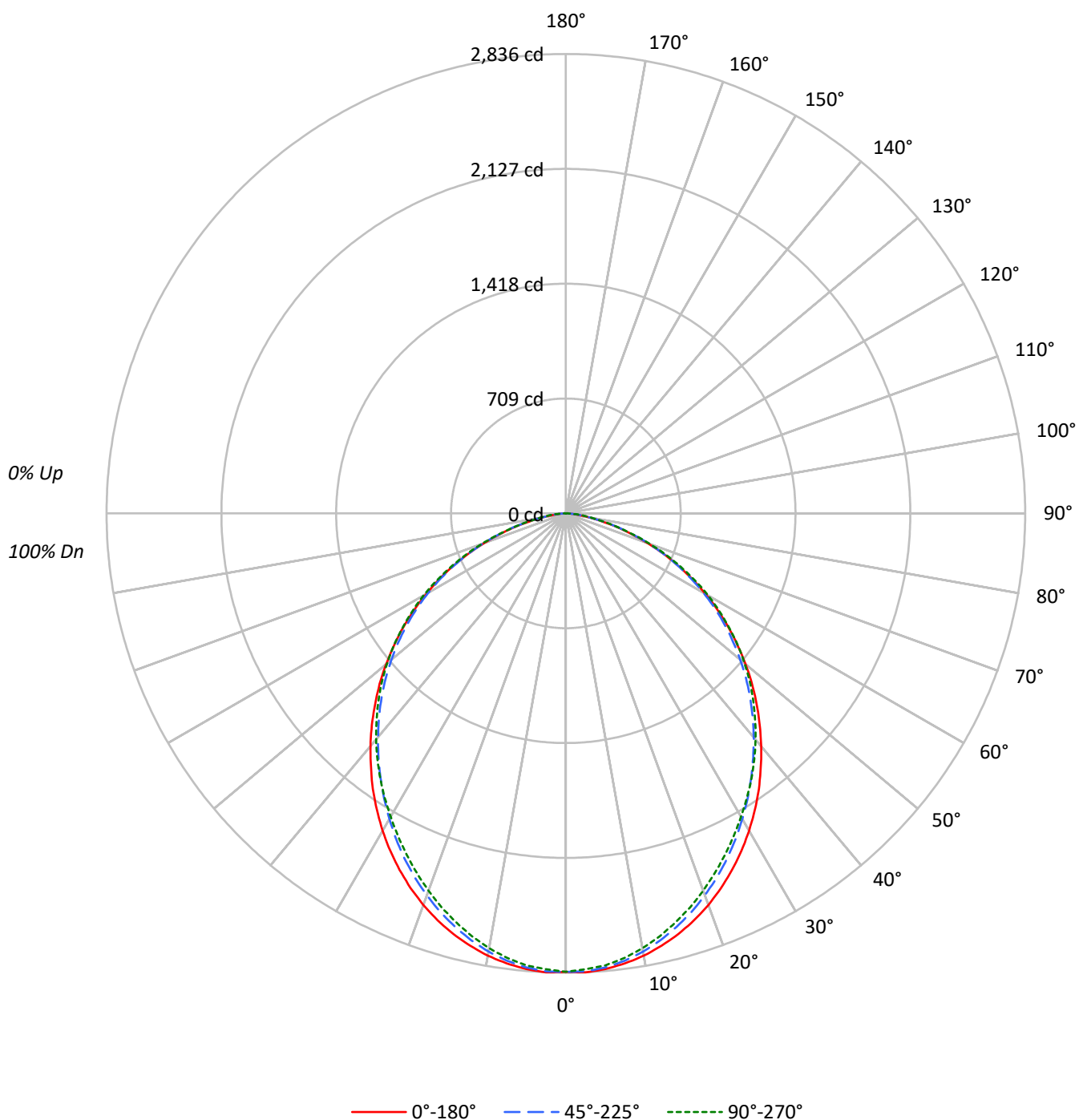
Lumens per Lamp: N/A
Luminaire Lumens: 6878.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 79.2
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	87	85
2	100	92	86	80	98	90	85	79	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	56		66	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	41	35	61	48	40	35	47	40	34		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7616	7616	7616
5°	7628	7601	7566
10°	7577	7507	7447
15°	7487	7362	7283
20°	7368	7186	7099
25°	7210	6989	6903
30°	7030	6770	6721
35°	6824	6551	6563
40°	6592	6338	6401
45°	6339	6122	6226
50°	6062	5885	6028
55°	5748	5615	5773
60°	5361	5278	5470
65°	4882	4844	4991
70°	4220	4273	4355
75°	3368	3512	3483
80°	2294	2490	2548
85°	1207	1720	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6339 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	3.9
10°-20°	744.5	10.8
20°-30°	1087.5	15.8
30°-40°	1259.4	18.3
40°-50°	1255.8	18.3
50°-60°	1081.2	15.7
60°-70°	758.1	11.0
70°-80°	356.0	5.2
80°-90°	69.3	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°	2098.0	30.5
0°-40°	3357.5	48.8
0°-60°	5694.5	82.8
0°-90°	6878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2830	2830	2830	2830	2830	
5°	2824	2814	2814	2796	2801	268
15°	2687	2668	2642	2612	2614	757
25°	2428	2397	2354	2320	2325	1118
35°	2077	2037	1994	1985	1998	1298
45°	1666	1630	1609	1623	1636	1285
55°	1225	1196	1197	1221	1231	1094
65°	767	750	761	779	784	758
75°	324	319	338	338	335	348
85°	39	44	56	67	72	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2830.1	2830.1	2830.1	2830.1	2830.1
2.5°	2836.4	2827.7	2830.1	2816.6	2816.7
5°	2824.0	2814.0	2813.7	2796.5	2801.1
7.5°	2802.2	2790.6	2785.4	2765.4	2769.0
10°	2772.8	2758.1	2747.3	2723.2	2725.4
12.5°	2733.7	2717.1	2699.6	2671.1	2674.4
15°	2687.4	2668.0	2642.5	2612.1	2614.3
17.5°	2634.0	2611.2	2579.7	2545.3	2550.0
20°	2572.8	2546.8	2509.4	2473.5	2478.9
22.5°	2503.9	2475.2	2433.7	2398.9	2403.3
25°	2428.3	2397.3	2353.8	2320.5	2324.9
27.5°	2348.6	2313.9	2268.1	2239.1	2244.5
30°	2262.3	2225.4	2178.9	2154.5	2163.1
32.5°	2171.3	2133.3	2088.2	2071.2	2081.5
35°	2077.4	2036.9	1994.3	1985.3	1997.8
37.5°	1976.7	1939.5	1900.1	1899.2	1911.7
40°	1876.5	1838.0	1804.3	1808.7	1822.2
42.5°	1772.7	1736.5	1707.6	1718.1	1730.2
45°	1665.7	1630.1	1608.8	1622.7	1636.1
47.5°	1559.5	1524.2	1509.0	1526.1	1541.3
50°	1448.1	1415.8	1405.8	1427.4	1440.0
52.5°	1335.5	1304.9	1301.9	1325.8	1339.1
55°	1225.2	1195.5	1196.8	1221.0	1230.6
57.5°	1110.4	1086.7	1090.8	1113.3	1124.5
60°	996.1	974.0	980.7	1004.6	1016.3
62.5°	881.4	862.4	871.5	894.2	900.7
65°	766.7	749.7	760.8	778.7	783.8
67.5°	650.1	637.7	651.8	667.2	669.9
70°	536.3	523.9	543.1	554.7	553.5
72.5°	425.7	418.4	436.5	444.6	440.0
75°	323.9	319.3	337.8	338.5	335.0
77.5°	229.7	228.0	243.3	242.7	242.2
80°	148.0	152.1	160.7	164.9	164.4
82.5°	83.7	90.0	97.1	109.5	114.6
85°	39.1	44.4	55.7	66.7	71.6
87.5°	13.3	17.3	23.3	25.3	24.0
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	17.99	19.57	18.35	19.89	20.20	18.14	19.73	18.51	20.04	20.36
	3H	19.45	20.88	19.83	21.20	21.56	19.65	21.08	20.03	21.40	21.77
	4H	19.88	21.22	20.28	21.57	21.94	20.09	21.43	20.49	21.78	22.16
	6H	20.09	21.33	20.50	21.69	22.09	20.33	21.56	20.74	21.93	22.32
	8H	20.12	21.30	20.54	21.69	22.09	20.38	21.56	20.81	21.95	22.35
	12H	20.12	21.25	20.55	21.63	22.06	20.42	21.55	20.85	21.93	22.36
4H	2H	18.54	19.88	18.94	20.23	20.60	18.67	20.01	19.07	20.35	20.73
	3H	20.18	21.30	20.59	21.70	22.10	20.37	21.48	20.78	21.88	22.28
	4H	20.70	21.70	21.13	22.12	22.55	20.91	21.91	21.34	22.32	22.76
	6H	20.99	21.86	21.44	22.30	22.76	21.22	22.10	21.68	22.54	23.00
	8H	21.03	21.85	21.50	22.29	22.76	21.31	22.12	21.77	22.56	23.03
	12H	21.05	21.78	21.53	22.26	22.73	21.37	22.10	21.85	22.58	23.05
8H	4H	20.90	21.71	21.36	22.16	22.62	21.09	21.90	21.55	22.34	22.81
	6H	21.25	21.92	21.74	22.41	22.89	21.47	22.14	21.96	22.63	23.11
	8H	21.32	21.92	21.83	22.43	22.92	21.59	22.19	22.10	22.70	23.19
	12H	21.36	21.89	21.87	22.38	22.95	21.70	22.23	22.20	22.72	23.28
12H	4H	20.90	21.63	21.38	22.11	22.58	21.08	21.81	21.57	22.29	22.76
	6H	21.25	21.85	21.76	22.36	22.85	21.47	22.07	21.98	22.58	23.07
	8H	21.36	21.89	21.87	22.39	22.95	21.63	22.16	22.14	22.65	23.21