

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: P1498788

Luminaire Tested: MAE-G-2-120-3LO-STD-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498788
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-50-90
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

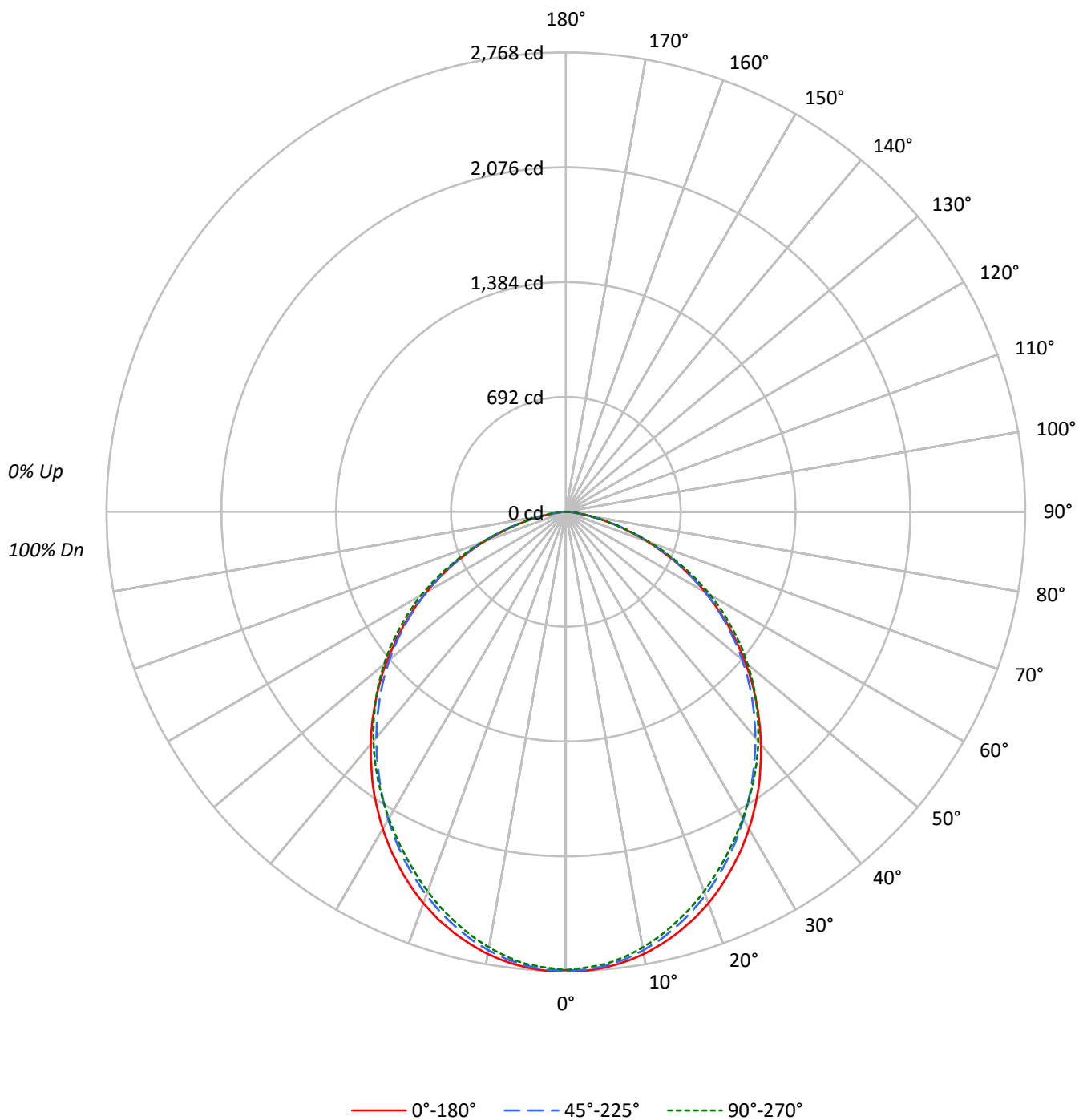
Lumens per Lamp: N/A
Luminaire Lumens: 6745.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	7433	7433	7433
5°	7445	7420	7390
10°	7395	7334	7284
15°	7306	7200	7138
20°	7189	7039	6971
25°	7033	6855	6792
30°	6856	6648	6626
35°	6654	6441	6483
40°	6426	6239	6335
45°	6178	6033	6173
50°	5906	5805	5988
55°	5598	5544	5737
60°	5219	5215	5425
65°	4748	4783	4912
70°	4098	4194	4231
75°	3266	3402	3299
80°	2213	2345	2317
85°	1155	1565	1973

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6178 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.8	3.9
10°-20°	728.2	10.8
20°-30°	1065.9	15.8
30°-40°	1236.9	18.3
40°-50°	1235.8	18.3
50°-60°	1065.5	15.8
60°-70°	744.9	11.0
70°-80°	343.9	5.1
80°-90°	64.2	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°	2053.9	30.5
0°-40°	3290.8	48.8
0°-60°	5592.1	82.9
0°-90°	6745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2762	2762	2762	2762	2762	
5°	2756	2746	2747	2732	2736	261
15°	2623	2604	2585	2559	2562	739
25°	2369	2342	2309	2282	2288	1091
35°	2026	1991	1961	1959	1973	1266
45°	1623	1595	1585	1606	1622	1252
55°	1193	1170	1182	1212	1223	1065
65°	746	735	751	767	771	737
75°	314	312	327	323	317	337
85°	37	42	51	60	64	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2762.2	2762.2	2762.2	2762.2	2762.2
2.5°	2768.5	2759.0	2762.2	2750.2	2749.6
5°	2756.3	2745.9	2746.7	2731.5	2735.7
7.5°	2735.1	2723.3	2720.0	2702.7	2706.1
10°	2706.2	2691.7	2683.9	2663.4	2665.7
12.5°	2667.8	2652.1	2638.8	2614.7	2618.4
15°	2622.6	2604.4	2584.6	2559.4	2562.3
17.5°	2570.2	2549.5	2525.1	2496.4	2501.7
20°	2510.3	2487.0	2458.0	2427.9	2434.4
22.5°	2442.9	2417.6	2385.1	2356.6	2362.5
25°	2368.8	2342.0	2308.6	2281.5	2287.6
27.5°	2290.8	2260.9	2225.9	2203.5	2210.5
30°	2206.4	2174.8	2139.6	2121.9	2132.5
32.5°	2117.3	2085.1	2051.6	2041.5	2054.0
35°	2025.6	1991.4	1960.6	1958.6	1973.4
37.5°	1927.1	1896.5	1869.2	1875.2	1890.2
40°	1829.2	1797.5	1776.0	1787.3	1803.3
42.5°	1727.8	1698.5	1681.7	1699.2	1713.9
45°	1623.3	1594.8	1585.4	1606.1	1622.1
47.5°	1519.8	1491.4	1487.8	1511.4	1529.3
50°	1410.7	1385.4	1386.7	1414.7	1430.3
52.5°	1301.2	1277.2	1284.8	1315.1	1330.7
55°	1193.3	1170.4	1181.7	1211.6	1222.9
57.5°	1081.3	1064.1	1077.3	1104.5	1117.0
60°	969.7	953.9	968.9	995.8	1008.0
62.5°	857.8	844.9	860.9	884.6	890.3
65°	745.7	734.6	751.1	767.2	771.4
67.5°	631.9	624.8	642.3	654.3	655.8
70°	520.9	513.3	533.0	540.7	537.7
72.5°	413.0	409.7	425.8	429.4	423.0
75°	314.1	312.3	327.2	322.9	317.3
77.5°	222.3	222.2	233.0	227.5	225.1
80°	142.8	147.0	151.3	151.3	149.5
82.5°	80.5	85.9	89.3	99.2	103.3
85°	37.4	41.6	50.7	59.9	63.9
87.5°	12.7	16.0	21.0	22.8	21.4
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	17.90	19.49	18.27	19.80	20.11	18.16	19.74	18.52	20.06	20.37
	3H	19.36	20.78	19.74	21.11	21.47	19.63	21.05	20.00	21.38	21.74
	4H	19.78	21.12	20.18	21.47	21.85	20.04	21.38	20.44	21.72	22.10
	6H	19.99	21.23	20.40	21.59	21.98	20.24	21.48	20.65	21.84	22.23
	8H	20.02	21.20	20.44	21.59	21.99	20.28	21.46	20.71	21.85	22.25
	12H	20.02	21.15	20.45	21.53	21.96	20.31	21.44	20.74	21.82	22.25
4H	2H	18.47	19.81	18.87	20.16	20.53	18.68	20.01	19.07	20.36	20.74
	3H	20.10	21.22	20.51	21.61	22.01	20.33	21.45	20.74	21.85	22.25
	4H	20.61	21.62	21.05	22.03	22.47	20.84	21.84	21.27	22.25	22.69
	6H	20.90	21.77	21.35	22.21	22.67	21.12	21.99	21.57	22.43	22.89
	8H	20.94	21.75	21.40	22.20	22.66	21.18	22.00	21.64	22.44	22.91
	12H	20.95	21.68	21.44	22.16	22.63	21.23	21.96	21.71	22.44	22.91
8H	4H	20.81	21.62	21.27	22.06	22.53	21.01	21.82	21.47	22.27	22.73
	6H	21.15	21.82	21.64	22.31	22.78	21.35	22.02	21.84	22.51	22.98
	8H	21.22	21.82	21.73	22.33	22.81	21.45	22.05	21.96	22.56	23.04
	12H	21.25	21.78	21.76	22.28	22.84	21.53	22.07	22.04	22.56	23.12
12H	4H	20.81	21.53	21.29	22.01	22.48	21.01	21.74	21.49	22.21	22.68
	6H	21.15	21.75	21.66	22.26	22.74	21.34	21.95	21.85	22.45	22.94
	8H	21.25	21.78	21.76	22.27	22.84	21.48	22.01	21.99	22.50	23.06