

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: P1498776

Luminaire Tested: MAE-G-2-120-3LO-STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498776
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-35-90
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

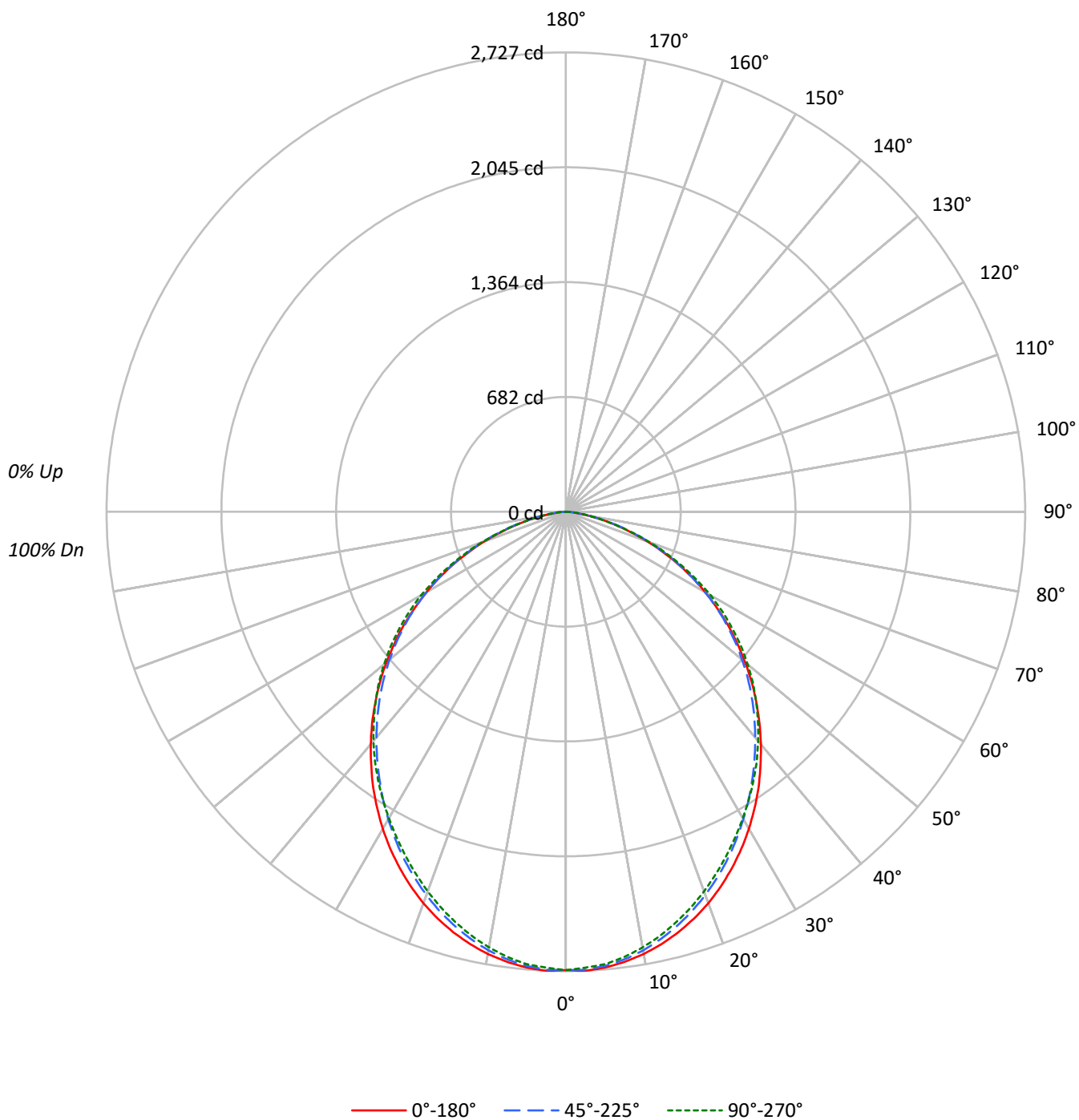
Lumens per Lamp: N/A
Luminaire Lumens: 6644.0 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	7322	7322	7322
5°	7334	7309	7279
10°	7284	7224	7175
15°	7197	7092	7031
20°	7081	6933	6867
25°	6928	6752	6691
30°	6753	6549	6527
35°	6555	6344	6386
40°	6329	6145	6240
45°	6085	5943	6081
50°	5817	5718	5898
55°	5514	5461	5652
60°	5141	5137	5344
65°	4676	4711	4838
70°	4037	4131	4167
75°	3217	3350	3249
80°	2182	2307	2283
85°	1139	1541	1942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6085 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.9	3.9
10°-20°	717.3	10.8
20°-30°	1049.9	15.8
30°-40°	1218.4	18.3
40°-50°	1217.3	18.3
50°-60°	1049.6	15.8
60°-70°	733.8	11.0
70°-80°	338.7	5.1
80°-90°	63.2	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°	2023.1	30.5
0°-40°	3241.5	48.8
0°-60°	5508.3	82.9
0°-90°	6644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2721	2721	2721	2721	2721	
5°	2715	2705	2706	2691	2695	258
15°	2583	2566	2546	2521	2524	728
25°	2333	2307	2274	2247	2253	1074
35°	1995	1962	1931	1929	1944	1247
45°	1599	1571	1562	1582	1598	1234
55°	1175	1153	1164	1194	1205	1049
65°	734	724	740	756	760	726
75°	309	308	322	318	312	332
85°	37	41	50	59	63	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2720.8	2720.8	2720.8	2720.8	2720.8
2.5°	2727.1	2717.6	2720.8	2709.0	2708.3
5°	2715.1	2704.7	2705.6	2690.6	2694.7
7.5°	2694.1	2682.5	2679.2	2662.2	2665.5
10°	2665.7	2651.4	2643.7	2623.5	2625.8
12.5°	2627.9	2612.3	2599.2	2575.6	2579.1
15°	2583.4	2565.5	2545.8	2521.1	2523.9
17.5°	2531.7	2511.3	2487.2	2459.0	2464.2
20°	2472.7	2449.7	2421.1	2391.5	2398.0
22.5°	2406.3	2381.4	2349.3	2321.3	2327.1
25°	2333.4	2307.0	2274.0	2247.3	2253.4
27.5°	2256.5	2227.0	2192.6	2170.5	2177.5
30°	2173.4	2142.2	2107.6	2090.1	2100.6
32.5°	2085.6	2053.9	2020.9	2011.0	2023.3
35°	1995.3	1961.6	1931.2	1929.3	1943.8
37.5°	1898.2	1868.1	1841.2	1847.2	1861.9
40°	1801.8	1770.6	1749.4	1760.5	1776.3
42.5°	1702.0	1673.1	1656.6	1673.7	1688.1
45°	1599.0	1570.9	1561.6	1582.0	1597.9
47.5°	1497.1	1469.1	1465.5	1488.9	1506.4
50°	1389.6	1364.7	1365.9	1393.5	1408.9
52.5°	1281.8	1258.1	1265.6	1295.4	1310.8
55°	1175.4	1152.8	1164.0	1193.5	1204.7
57.5°	1065.0	1048.1	1061.2	1088.0	1100.4
60°	955.2	939.6	954.4	981.0	993.0
62.5°	845.0	832.3	848.0	871.4	877.0
65°	734.4	723.6	739.8	755.7	759.8
67.5°	622.4	615.5	632.6	644.5	646.0
70°	513.1	505.6	525.0	532.6	529.6
72.5°	406.9	403.6	419.4	423.0	416.6
75°	309.4	307.7	322.2	318.1	312.5
77.5°	218.9	218.8	229.6	224.0	221.6
80°	140.8	144.8	148.9	149.0	147.3
82.5°	79.2	84.6	88.0	97.6	101.7
85°	36.9	40.9	49.9	59.0	62.9
87.5°	12.5	15.7	20.7	22.4	21.0
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	17.85	19.43	18.21	19.75	20.06	18.11	19.69	18.47	20.00	20.32
	3H	19.31	20.73	19.68	21.06	21.42	19.58	21.00	19.95	21.33	21.69
	4H	19.73	21.07	20.13	21.42	21.79	19.99	21.32	20.38	21.67	22.05
	6H	19.94	21.18	20.35	21.54	21.93	20.19	21.42	20.60	21.79	22.18
	8H	19.97	21.15	20.39	21.53	21.93	20.23	21.41	20.66	21.80	22.20
	12H	19.97	21.09	20.39	21.48	21.90	20.26	21.39	20.69	21.77	22.20
4H	2H	18.42	19.75	18.82	20.10	20.48	18.62	19.96	19.02	20.31	20.69
	3H	20.05	21.16	20.46	21.56	21.96	20.28	21.40	20.69	21.79	22.19
	4H	20.56	21.56	20.99	21.98	22.41	20.79	21.79	21.22	22.20	22.64
	6H	20.84	21.72	21.30	22.16	22.62	21.06	21.94	21.52	22.38	22.84
	8H	20.89	21.70	21.35	22.15	22.61	21.13	21.94	21.59	22.39	22.85
	12H	20.90	21.63	21.38	22.11	22.58	21.18	21.91	21.66	22.38	22.85
8H	4H	20.75	21.57	21.22	22.01	22.48	20.96	21.77	21.42	22.21	22.68
	6H	21.09	21.77	21.59	22.25	22.73	21.29	21.97	21.79	22.46	22.93
	8H	21.16	21.77	21.68	22.27	22.76	21.39	21.99	21.91	22.50	22.99
	12H	21.20	21.73	21.71	22.22	22.79	21.48	22.01	21.99	22.50	23.07
12H	4H	20.75	21.48	21.23	21.96	22.43	20.95	21.68	21.44	22.16	22.63
	6H	21.09	21.70	21.61	22.20	22.69	21.29	21.89	21.80	22.40	22.89
	8H	21.20	21.73	21.71	22.22	22.78	21.43	21.96	21.93	22.45	23.01