

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: P1498716

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498716
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-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

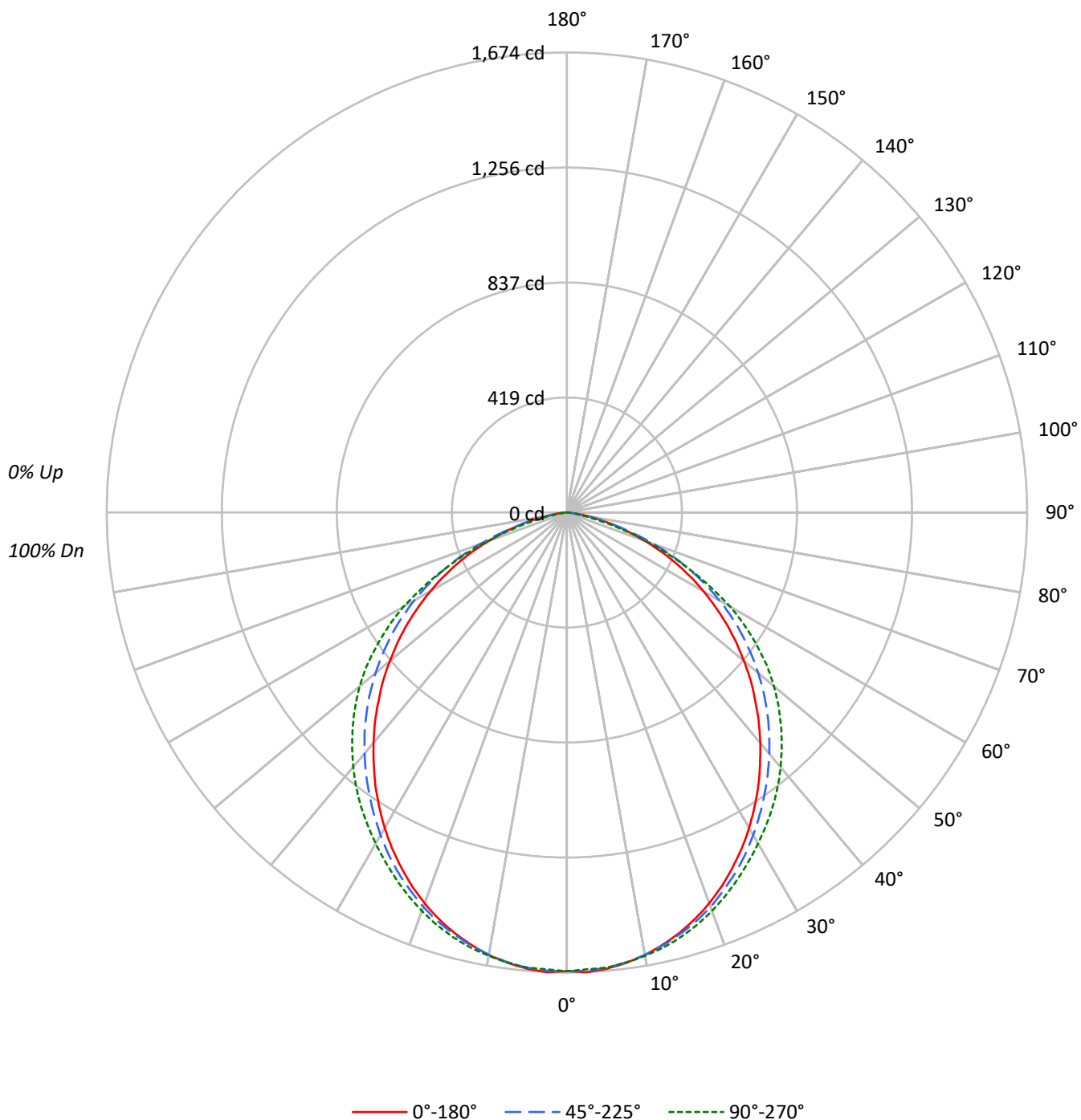
Lumens per Lamp: N/A
Luminaire Lumens: 4230.0 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4491	4491	4491
5°	4501	4491	4489
10°	4468	4465	4476
15°	4411	4425	4457
20°	4334	4374	4419
25°	4233	4301	4369
30°	4119	4212	4323
35°	3989	4116	4290
40°	3844	4023	4247
45°	3688	3924	4193
50°	3517	3803	4118
55°	3328	3655	3959
60°	3088	3454	3695
65°	2789	3150	3165
70°	2380	2644	2460
75°	1869	1930	1513
80°	1220	993	586
85°	584	392	312

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4193 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	3.7
10°-20°	447.6	10.6
20°-30°	665.7	15.7
30°-40°	784.4	18.5
40°-50°	795.3	18.8
50°-60°	693.0	16.4
60°-70°	474.0	11.2
70°-80°	190.4	4.5
80°-90°	22.1	0.5
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°	1270.9	30.0
0°-40°	2055.3	48.6
0°-60°	3543.6	83.8
0°-90°	4230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1669	1669	1669	1669	1669	
5°	1666	1656	1663	1661	1662	158
15°	1583	1576	1588	1595	1600	446
25°	1426	1426	1449	1459	1471	656
35°	1214	1220	1253	1284	1306	759
45°	969	982	1031	1077	1102	748
55°	709	724	779	828	844	633
65°	438	458	495	498	497	433
75°	180	192	186	159	146	193
85°	19	17	13	11	10	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1669.0	1669.0	1669.0	1669.0	1669.0
2.5°	1674.3	1663.2	1669.0	1667.8	1663.5
5°	1666.2	1656.2	1662.7	1660.9	1662.0
7.5°	1653.1	1643.9	1650.8	1650.5	1652.3
10°	1635.0	1625.7	1634.2	1635.8	1638.1
12.5°	1611.0	1603.4	1613.8	1616.8	1621.5
15°	1583.2	1576.3	1588.3	1594.8	1599.9
17.5°	1550.8	1545.0	1560.5	1566.7	1573.6
20°	1513.4	1509.2	1527.3	1533.1	1543.2
22.5°	1471.8	1469.5	1488.3	1497.2	1508.8
25°	1425.8	1426.2	1448.6	1459.1	1471.3
27.5°	1377.6	1378.4	1403.9	1418.5	1431.6
30°	1325.5	1327.8	1355.6	1373.8	1391.1
32.5°	1270.3	1274.9	1305.0	1329.8	1349.0
35°	1214.4	1219.7	1253.0	1283.8	1305.8
37.5°	1153.8	1162.7	1200.1	1236.8	1259.5
40°	1094.4	1103.2	1145.3	1185.8	1209.0
42.5°	1033.0	1044.2	1089.0	1134.1	1156.5
45°	969.0	982.0	1031.1	1077.4	1101.7
47.5°	907.6	919.2	970.9	1019.1	1044.2
50°	840.0	854.7	908.3	958.9	983.7
52.5°	775.6	789.1	844.3	896.1	918.4
55°	709.3	724.3	779.1	828.1	843.9
57.5°	641.3	659.5	712.3	753.3	768.3
60°	573.8	591.9	641.7	675.3	686.5
62.5°	506.6	526.0	569.6	591.9	591.9
65°	438.0	457.7	494.7	498.5	497.0
67.5°	369.3	389.0	417.2	410.2	405.6
70°	302.5	319.5	336.1	323.3	312.6
72.5°	237.7	253.9	256.6	238.1	224.6
75°	179.8	191.8	185.6	159.4	145.5
77.5°	125.4	132.4	119.2	92.6	81.5
80°	78.7	81.8	64.1	45.1	37.8
82.5°	42.5	42.8	27.8	22.8	21.2
85°	18.9	17.0	12.7	11.2	10.1
87.5°	6.6	5.8	4.6	4.3	3.5
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	16.15	17.73	16.51	18.04	18.36	17.13	18.71	17.49	19.03	19.34
	3H	17.56	18.98	17.93	19.30	19.66	18.33	19.75	18.71	20.08	20.44
	4H	17.95	19.28	18.35	19.63	20.01	18.55	19.88	18.95	20.23	20.61
	6H	18.12	19.36	18.54	19.72	20.11	18.57	19.80	18.98	20.16	20.56
	8H	18.14	19.31	18.56	19.70	20.10	18.54	19.72	18.97	20.11	20.51
	12H	18.13	19.25	18.56	19.63	20.06	18.52	19.64	18.95	20.02	20.45
4H	2H	16.82	18.15	17.22	18.50	18.88	17.61	18.94	18.01	19.29	19.67
	3H	18.38	19.49	18.79	19.89	20.29	18.98	20.08	19.39	20.48	20.88
	4H	18.86	19.85	19.29	20.27	20.71	19.25	20.24	19.68	20.66	21.09
	6H	19.10	19.96	19.56	20.40	20.86	19.30	20.16	19.76	20.60	21.06
	8H	19.12	19.93	19.59	20.37	20.84	19.28	20.08	19.74	20.52	20.99
	12H	19.12	19.84	19.61	20.32	20.79	19.26	19.97	19.74	20.45	20.92
8H	4H	19.01	19.81	19.47	20.25	20.72	19.37	20.17	19.83	20.61	21.08
	6H	19.28	19.94	19.78	20.43	20.91	19.43	20.09	19.92	20.58	21.06
	8H	19.32	19.91	19.83	20.42	20.91	19.40	20.00	19.92	20.51	20.99
	12H	19.34	19.86	19.85	20.35	20.91	19.39	19.91	19.90	20.40	20.97
12H	4H	18.99	19.71	19.47	20.18	20.65	19.36	20.07	19.84	20.55	21.02
	6H	19.25	19.84	19.76	20.35	20.84	19.40	20.00	19.92	20.51	20.99
	8H	19.32	19.84	19.83	20.33	20.89	19.40	19.93	19.91	20.42	20.98