

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: P1498704

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498704
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-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

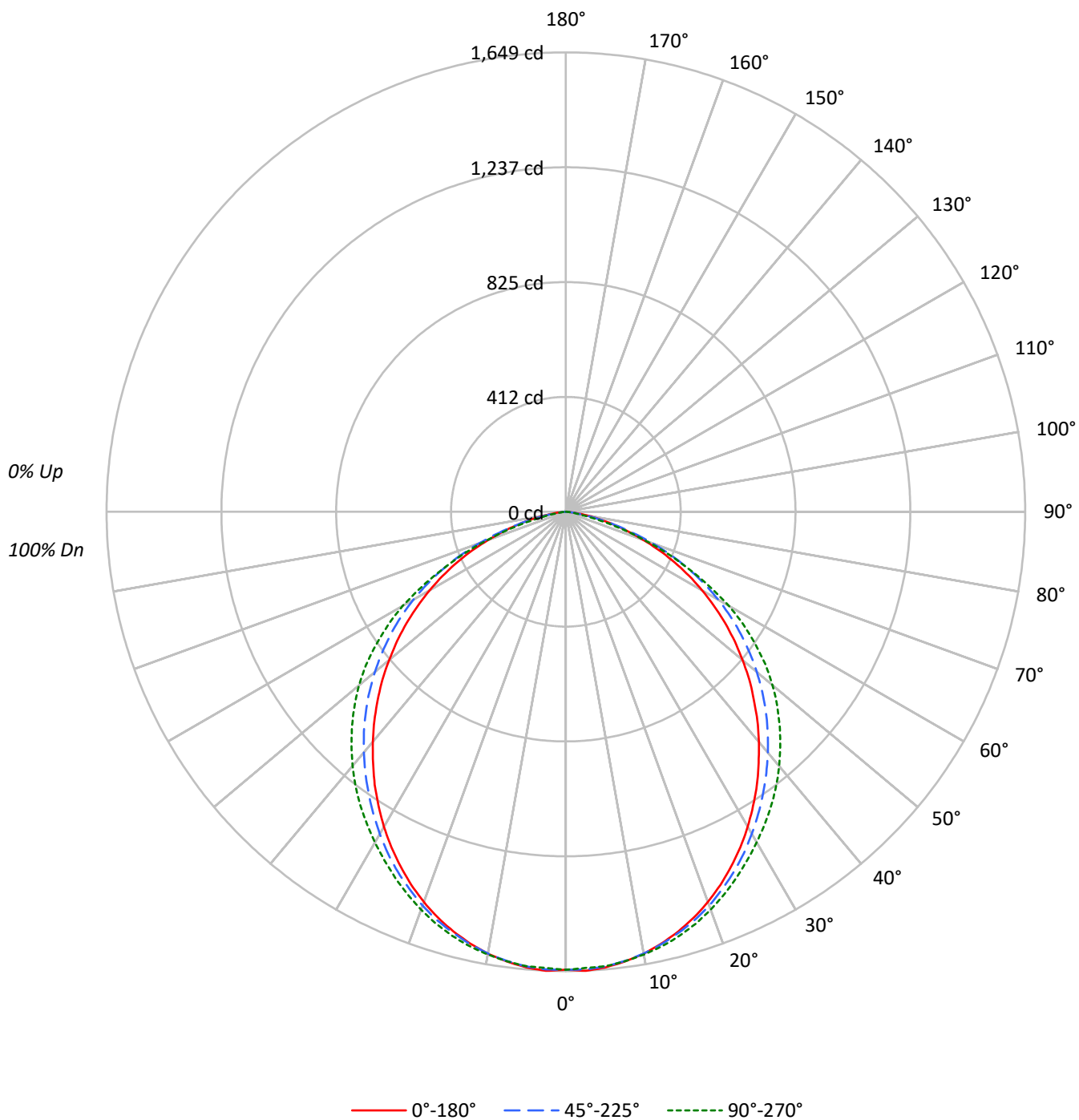
Lumens per Lamp: N/A
Luminaire Lumens: 4167.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4424	4424	4424
5°	4434	4425	4422
10°	4401	4399	4409
15°	4345	4359	4391
20°	4269	4308	4353
25°	4170	4237	4304
30°	4057	4149	4258
35°	3930	4055	4226
40°	3787	3963	4184
45°	3633	3865	4130
50°	3464	3746	4057
55°	3278	3601	3901
60°	3042	3402	3640
65°	2747	3103	3117
70°	2345	2605	2423
75°	1841	1901	1490
80°	1203	978	576
85°	577	386	306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4130 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	3.7
10°-20°	440.9	10.6
20°-30°	655.7	15.7
30°-40°	772.7	18.5
40°-50°	783.5	18.8
50°-60°	682.7	16.4
60°-70°	466.9	11.2
70°-80°	187.5	4.5
80°-90°	21.7	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°	1251.9	30.0
0°-40°	2024.7	48.6
0°-60°	3490.8	83.8
0°-90°	4167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1641	1632	1638	1636	1637	156
15°	1560	1553	1565	1571	1576	439
25°	1405	1405	1427	1437	1449	647
35°	1196	1202	1234	1265	1286	747
45°	955	967	1016	1061	1085	737
55°	699	714	768	816	831	624
65°	431	451	487	491	490	427
75°	177	189	183	157	143	190
85°	19	17	12	11	10	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1649.4	1638.4	1644.1	1642.9	1638.7
5°	1641.4	1631.5	1638.0	1636.1	1637.2
7.5°	1628.5	1619.4	1626.2	1625.9	1627.7
10°	1610.7	1601.5	1609.9	1611.4	1613.7
12.5°	1587.1	1579.5	1589.7	1592.8	1597.3
15°	1559.7	1552.9	1564.6	1571.1	1576.0
17.5°	1527.7	1522.0	1537.2	1543.4	1550.2
20°	1490.9	1486.7	1504.5	1510.3	1520.2
22.5°	1449.8	1447.6	1466.1	1474.9	1486.3
25°	1404.6	1405.0	1427.0	1437.3	1449.4
27.5°	1357.1	1357.8	1383.0	1397.3	1410.3
30°	1305.8	1308.0	1335.4	1353.3	1370.4
32.5°	1251.4	1255.9	1285.6	1310.0	1328.9
35°	1196.3	1201.6	1234.3	1264.7	1286.3
37.5°	1136.6	1145.4	1182.2	1218.4	1240.7
40°	1078.1	1086.8	1128.2	1168.1	1191.0
42.5°	1017.7	1028.7	1072.8	1117.2	1139.2
45°	954.6	967.4	1015.7	1061.3	1085.3
47.5°	894.1	905.5	956.4	1004.0	1028.7
50°	827.5	842.0	894.8	944.6	969.0
52.5°	764.1	777.4	831.7	882.7	904.7
55°	698.7	713.5	767.5	815.8	831.4
57.5°	631.7	649.6	701.7	742.1	756.9
60°	565.3	583.1	632.2	665.3	676.3
62.5°	499.1	518.2	561.1	583.1	583.1
65°	431.4	450.9	487.3	491.1	489.6
67.5°	363.8	383.2	410.9	404.1	399.5
70°	298.0	314.7	331.1	318.5	307.9
72.5°	234.2	250.1	252.8	234.6	221.2
75°	177.1	189.0	182.8	157.0	143.3
77.5°	123.5	130.4	117.5	91.2	80.2
80°	77.6	80.6	63.1	44.4	37.2
82.5°	41.8	42.2	27.4	22.4	20.9
85°	18.7	16.7	12.5	11.0	9.9
87.5°	6.5	5.7	4.5	4.2	3.4
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	16.09	17.68	16.46	17.99	18.30	17.08	18.66	17.44	18.97	19.29
	3H	17.50	18.92	17.88	19.25	19.61	18.28	19.70	18.66	20.03	20.39
	4H	17.90	19.23	18.30	19.58	19.96	18.50	19.83	18.90	20.18	20.56
	6H	18.07	19.30	18.48	19.67	20.06	18.51	19.75	18.93	20.11	20.50
	8H	18.09	19.26	18.51	19.65	20.05	18.49	19.67	18.92	20.05	20.45
	12H	18.08	19.20	18.51	19.58	20.01	18.47	19.59	18.90	19.97	20.40
4H	2H	16.76	18.10	17.16	18.45	18.82	17.55	18.89	17.95	19.24	19.61
	3H	18.33	19.44	18.74	19.84	20.24	18.92	20.03	19.33	20.43	20.83
	4H	18.81	19.80	19.24	20.22	20.65	19.20	20.19	19.63	20.60	21.04
	6H	19.05	19.91	19.50	20.35	20.81	19.25	20.11	19.70	20.55	21.01
	8H	19.07	19.88	19.53	20.32	20.79	19.22	20.03	19.69	20.47	20.94
	12H	19.07	19.79	19.55	20.27	20.74	19.20	19.92	19.68	20.40	20.87
8H	4H	18.95	19.76	19.42	20.20	20.67	19.31	20.12	19.78	20.56	21.03
	6H	19.23	19.89	19.72	20.38	20.86	19.37	20.04	19.87	20.53	21.00
	8H	19.27	19.86	19.78	20.37	20.86	19.35	19.94	19.86	20.45	20.94
	12H	19.28	19.81	19.79	20.30	20.86	19.34	19.86	19.85	20.35	20.91
12H	4H	18.94	19.65	19.42	20.13	20.60	19.30	20.02	19.79	20.50	20.97
	6H	19.20	19.79	19.71	20.30	20.79	19.35	19.94	19.86	20.45	20.94
	8H	19.27	19.79	19.77	20.28	20.84	19.35	19.87	19.86	20.37	20.93

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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