

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: P1499100

Luminaire Tested: MAE-G-4-120-1STD-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

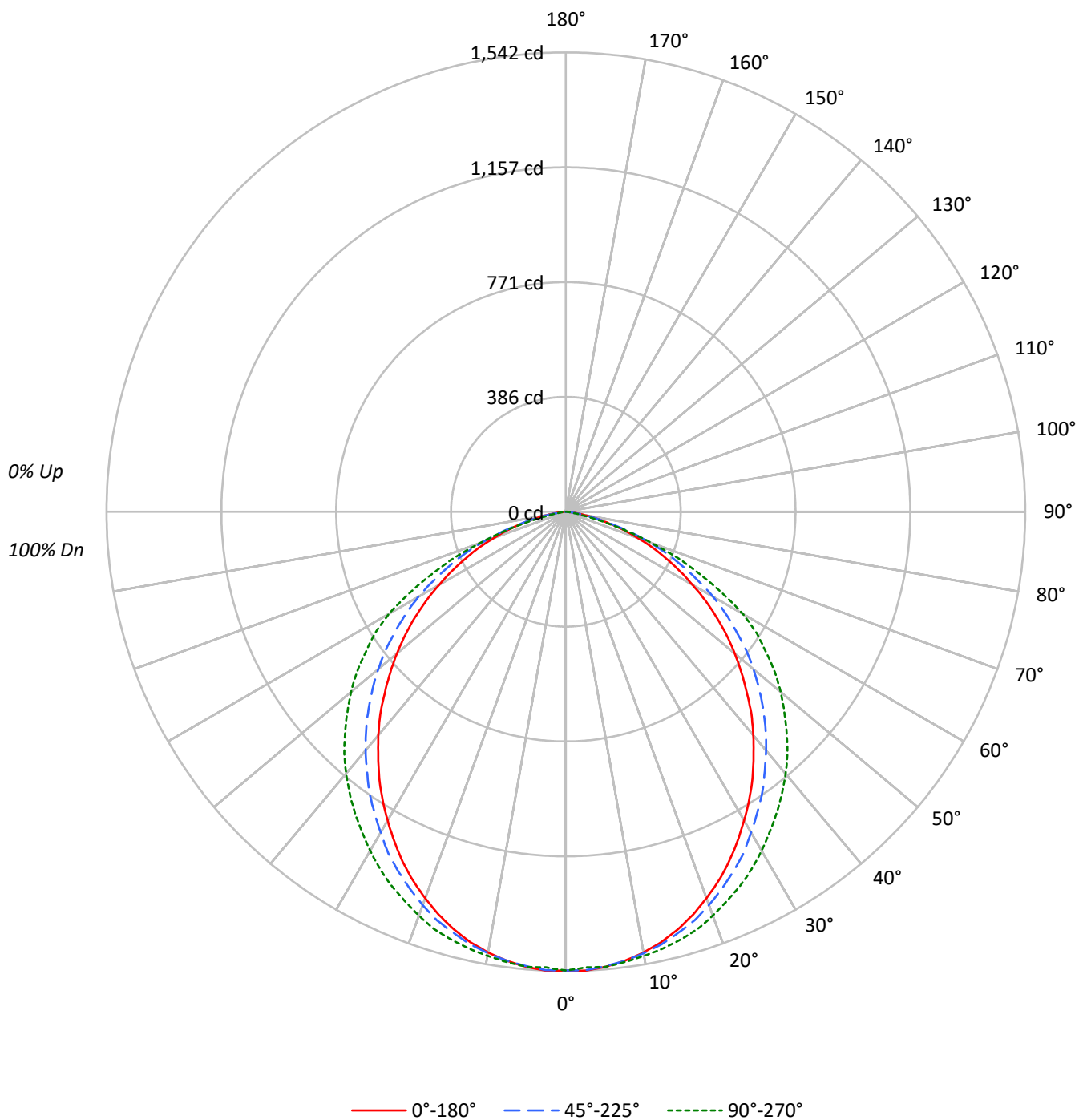
Lumens per Lamp: N/A
Luminaire Lumens: 3877.0 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.1
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	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	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2072	2072	2072
5°	2071	2068	2071
10°	2053	2056	2068
15°	2022	2037	2071
20°	1977	2011	2065
25°	1924	1977	2056
30°	1859	1931	2041
35°	1794	1889	2027
40°	1720	1837	2016
45°	1636	1784	1994
50°	1549	1721	1971
55°	1450	1637	1923
60°	1324	1538	1848
65°	1185	1376	1587
70°	1011	1159	1212
75°	783	841	679
80°	515	446	240
85°	273	205	137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1994 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	3.8
10°-20°	413.3	10.7
20°-30°	614.5	15.9
30°-40°	722.5	18.6
40°-50°	729.2	18.8
50°-60°	633.2	16.3
60°-70°	430.9	11.1
70°-80°	167.9	4.3
80°-90°	20.1	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°	1173.2	30.3
0°-40°	1895.7	48.9
0°-60°	3258.1	84.0
0°-90°	3877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1540	1540	1540	1540	1540	
5°	1533	1531	1531	1531	1533	145
15°	1451	1454	1462	1478	1487	409
25°	1296	1303	1332	1365	1385	596
35°	1092	1106	1150	1203	1234	682
45°	860	882	937	1010	1048	664
55°	618	638	698	778	820	552
65°	372	390	432	479	499	370
75°	151	160	162	146	131	164
85°	18	18	13	11	9	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1540.0	1540.0	1540.0	1540.0	1540.0
2.5°	1542.2	1542.2	1540.0	1533.3	1531.1
5°	1533.3	1531.1	1531.1	1531.1	1533.3
7.5°	1520.0	1520.0	1520.0	1522.2	1524.5
10°	1502.3	1502.3	1504.5	1509.0	1513.4
12.5°	1480.1	1482.4	1486.8	1495.7	1502.3
15°	1451.3	1453.6	1462.4	1477.9	1486.8
17.5°	1418.1	1424.8	1438.0	1455.8	1469.1
20°	1380.4	1387.1	1404.8	1427.0	1442.5
22.5°	1340.6	1347.2	1369.4	1395.9	1413.7
25°	1296.2	1302.9	1331.7	1364.9	1384.9
27.5°	1247.5	1256.4	1291.8	1327.3	1351.6
30°	1196.5	1207.6	1243.1	1287.4	1314.0
32.5°	1145.6	1158.9	1196.5	1247.5	1274.1
35°	1092.4	1105.7	1150.0	1203.2	1234.2
37.5°	1034.8	1050.3	1096.8	1161.1	1192.1
40°	979.4	994.9	1045.9	1114.5	1147.8
42.5°	921.8	939.5	992.7	1063.6	1101.2
45°	859.7	881.9	937.3	1010.4	1048.1
47.5°	799.9	819.8	879.7	955.0	994.9
50°	740.1	762.2	822.1	899.6	941.7
52.5°	680.2	700.2	762.2	839.8	884.1
55°	618.2	638.1	698.0	777.7	819.8
57.5°	556.2	580.5	635.9	713.5	760.0
60°	491.9	514.1	571.7	649.2	686.9
62.5°	432.1	452.0	500.8	573.9	591.6
65°	372.3	390.0	432.1	478.6	498.6
67.5°	316.9	330.2	367.8	398.8	407.7
70°	257.0	270.3	294.7	312.4	308.0
72.5°	203.9	212.7	228.2	226.0	214.9
75°	150.7	159.5	161.8	146.2	130.7
77.5°	106.4	110.8	104.1	82.0	66.5
80°	66.5	68.7	57.6	35.5	31.0
82.5°	37.7	37.7	26.6	22.2	17.7
85°	17.7	17.7	13.3	11.1	8.9
87.5°	6.6	6.6	4.4	4.4	4.4
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	13.13	14.71	13.50	15.03	15.34	14.71	16.29	15.08	16.61	16.92
	3H	14.47	15.89	14.85	16.22	16.58	15.98	17.40	16.36	17.73	18.09
	4H	14.84	16.17	15.24	16.52	16.89	16.18	17.51	16.58	17.86	18.23
	6H	15.00	16.23	15.41	16.60	16.99	16.18	17.40	16.59	17.77	18.16
	8H	15.02	16.19	15.44	16.58	16.98	16.15	17.32	16.58	17.71	18.11
	12H	15.01	16.13	15.44	16.51	16.94	16.12	17.24	16.55	17.63	18.05
4H	2H	13.80	15.13	14.20	15.48	15.85	15.09	16.42	15.49	16.77	17.15
	3H	15.30	16.40	15.71	16.80	17.20	16.53	17.63	16.94	18.03	18.43
	4H	15.74	16.73	16.17	17.14	17.58	16.78	17.77	17.21	18.19	18.62
	6H	15.97	16.82	16.42	17.27	17.72	16.81	17.67	17.27	18.11	18.57
	8H	15.99	16.79	16.45	17.23	17.70	16.78	17.58	17.25	18.03	18.49
	12H	15.99	16.71	16.47	17.19	17.66	16.76	17.48	17.24	17.95	18.42
8H	4H	15.90	16.70	16.36	17.14	17.61	16.87	17.67	17.33	18.11	18.58
	6H	16.16	16.82	16.65	17.31	17.78	16.90	17.56	17.40	18.05	18.53
	8H	16.20	16.79	16.71	17.30	17.78	16.87	17.46	17.39	17.97	18.46
	12H	16.22	16.74	16.73	17.23	17.79	16.86	17.38	17.37	17.87	18.43
12H	4H	15.88	16.59	16.36	17.07	17.54	16.85	17.57	17.33	18.04	18.52
	6H	16.13	16.72	16.64	17.23	17.72	16.87	17.46	17.39	17.97	18.46
	8H	16.20	16.72	16.71	17.21	17.77	16.87	17.39	17.38	17.88	18.45