

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: P1498906

Luminaire Tested: MAE-G-4-120-1HI-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498906
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-4-120-1HI-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

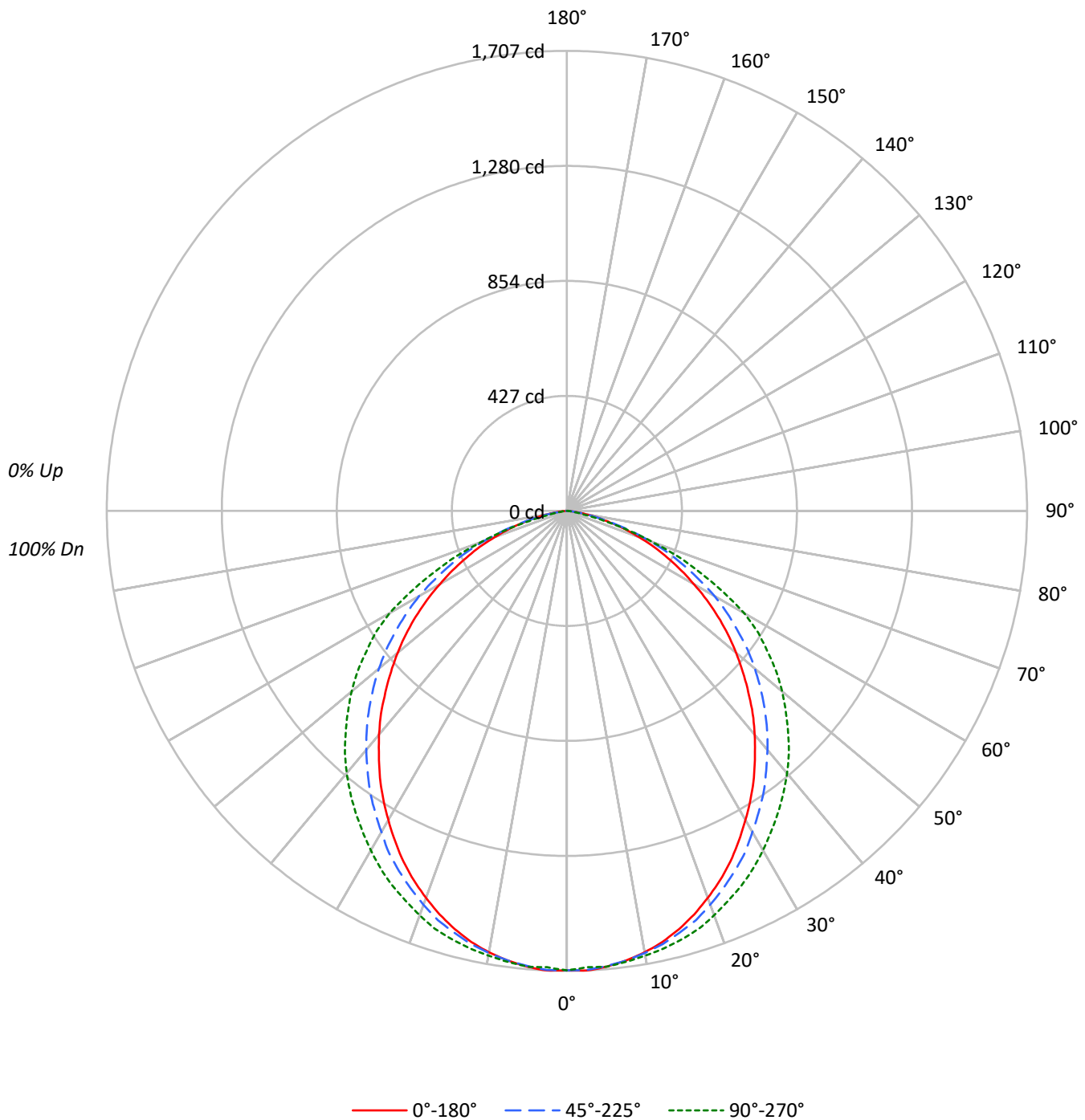
Lumens per Lamp: N/A
Luminaire Lumens: 4292.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.3
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°	2294	2294	2294
5°	2293	2289	2293
10°	2272	2276	2289
15°	2238	2255	2293
20°	2188	2227	2287
25°	2130	2189	2276
30°	2058	2138	2260
35°	1986	2091	2244
40°	1904	2034	2232
45°	1811	1974	2208
50°	1715	1905	2182
55°	1605	1813	2129
60°	1466	1703	2046
65°	1312	1523	1757
70°	1119	1283	1341
75°	867	931	752
80°	570	494	266
85°	303	227	151

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2208 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	3.8
10°-20°	457.5	10.7
20°-30°	680.3	15.9
30°-40°	799.8	18.6
40°-50°	807.3	18.8
50°-60°	700.9	16.3
60°-70°	477.1	11.1
70°-80°	185.8	4.3
80°-90°	22.2	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°	1298.8	30.3
0°-40°	2098.6	48.9
0°-60°	3606.8	84.0
0°-90°	4292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1698	1695	1695	1695	1698	161
15°	1607	1609	1619	1636	1646	452
25°	1435	1442	1474	1511	1533	660
35°	1209	1224	1273	1332	1366	755
45°	952	976	1038	1119	1160	735
55°	684	706	773	861	908	611
65°	412	432	478	530	552	409
75°	167	177	179	162	145	181
85°	20	20	15	12	10	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1704.8	1704.8	1704.8	1704.8	1704.8
2.5°	1707.3	1707.3	1704.8	1697.5	1695.0
5°	1697.5	1695.0	1695.0	1695.0	1697.5
7.5°	1682.7	1682.7	1682.7	1685.2	1687.6
10°	1663.1	1663.1	1665.6	1670.5	1675.4
12.5°	1638.6	1641.0	1645.9	1655.8	1663.1
15°	1606.7	1609.1	1619.0	1636.1	1645.9
17.5°	1569.9	1577.3	1592.0	1611.6	1626.3
20°	1528.2	1535.6	1555.2	1579.7	1596.9
22.5°	1484.0	1491.4	1515.9	1545.4	1565.0
25°	1435.0	1442.3	1474.2	1511.0	1533.1
27.5°	1381.0	1390.8	1430.1	1469.3	1496.3
30°	1324.6	1336.9	1376.1	1425.2	1454.6
32.5°	1268.2	1282.9	1324.6	1381.0	1410.5
35°	1209.3	1224.0	1273.1	1332.0	1366.3
37.5°	1145.5	1162.7	1214.2	1285.4	1319.7
40°	1084.2	1101.4	1157.8	1233.8	1270.6
42.5°	1020.4	1040.1	1098.9	1177.4	1219.1
45°	951.8	976.3	1037.6	1118.6	1160.3
47.5°	885.5	907.6	973.8	1057.2	1101.4
50°	819.3	843.8	910.1	995.9	1042.5
52.5°	753.1	775.1	843.8	929.7	978.7
55°	684.4	706.5	772.7	861.0	907.6
57.5°	615.7	642.7	704.0	789.9	841.4
60°	544.6	569.1	632.9	718.7	760.4
62.5°	478.3	500.4	554.4	635.3	654.9
65°	412.1	431.7	478.3	529.8	551.9
67.5°	350.8	365.5	407.2	441.5	451.3
70°	284.5	299.3	326.2	345.9	341.0
72.5°	225.7	235.5	252.7	250.2	237.9
75°	166.8	176.6	179.1	161.9	144.7
77.5°	117.7	122.6	115.3	90.8	73.6
80°	73.6	76.0	63.8	39.2	34.3
82.5°	41.7	41.7	29.4	24.5	19.6
85°	19.6	19.6	14.7	12.3	9.8
87.5°	7.4	7.4	4.9	4.9	4.9
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	13.49	15.07	13.85	15.38	15.70	15.07	16.65	15.43	16.96	17.28
	3H	14.82	16.24	15.20	16.57	16.93	16.34	17.75	16.71	18.08	18.44
	4H	15.19	16.52	15.59	16.87	17.25	16.53	17.86	16.93	18.21	18.59
	6H	15.36	16.58	15.77	16.95	17.34	16.53	17.76	16.94	18.12	18.51
	8H	15.37	16.54	15.80	16.93	17.33	16.50	17.67	16.93	18.06	18.46
	12H	15.36	16.48	15.79	16.87	17.29	16.48	17.60	16.91	17.98	18.41
4H	2H	14.15	15.48	14.55	15.83	16.21	15.45	16.77	15.84	17.12	17.50
	3H	15.65	16.75	16.06	17.15	17.55	16.88	17.98	17.29	18.38	18.78
	4H	16.09	17.08	16.53	17.50	17.93	17.14	18.13	17.57	18.54	18.98
	6H	16.32	17.18	16.77	17.62	18.08	17.16	18.02	17.62	18.46	18.92
	8H	16.34	17.14	16.81	17.59	18.05	17.14	17.94	17.60	18.38	18.85
	12H	16.35	17.06	16.83	17.54	18.01	17.11	17.83	17.60	18.31	18.78
8H	4H	16.25	17.05	16.71	17.50	17.96	17.22	18.02	17.68	18.46	18.93
	6H	16.51	17.17	17.01	17.66	18.14	17.25	17.91	17.75	18.40	18.88
	8H	16.55	17.14	17.06	17.65	18.14	17.23	17.82	17.74	18.33	18.81
	12H	16.57	17.09	17.08	17.58	18.15	17.21	17.73	17.72	18.22	18.79
12H	4H	16.23	16.95	16.71	17.43	17.90	17.21	17.92	17.69	18.40	18.87
	6H	16.48	17.07	16.99	17.58	18.07	17.23	17.82	17.74	18.33	18.81
	8H	16.55	17.07	17.06	17.56	18.12	17.22	17.74	17.73	18.24	18.80