

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: P1499098

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499098
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-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

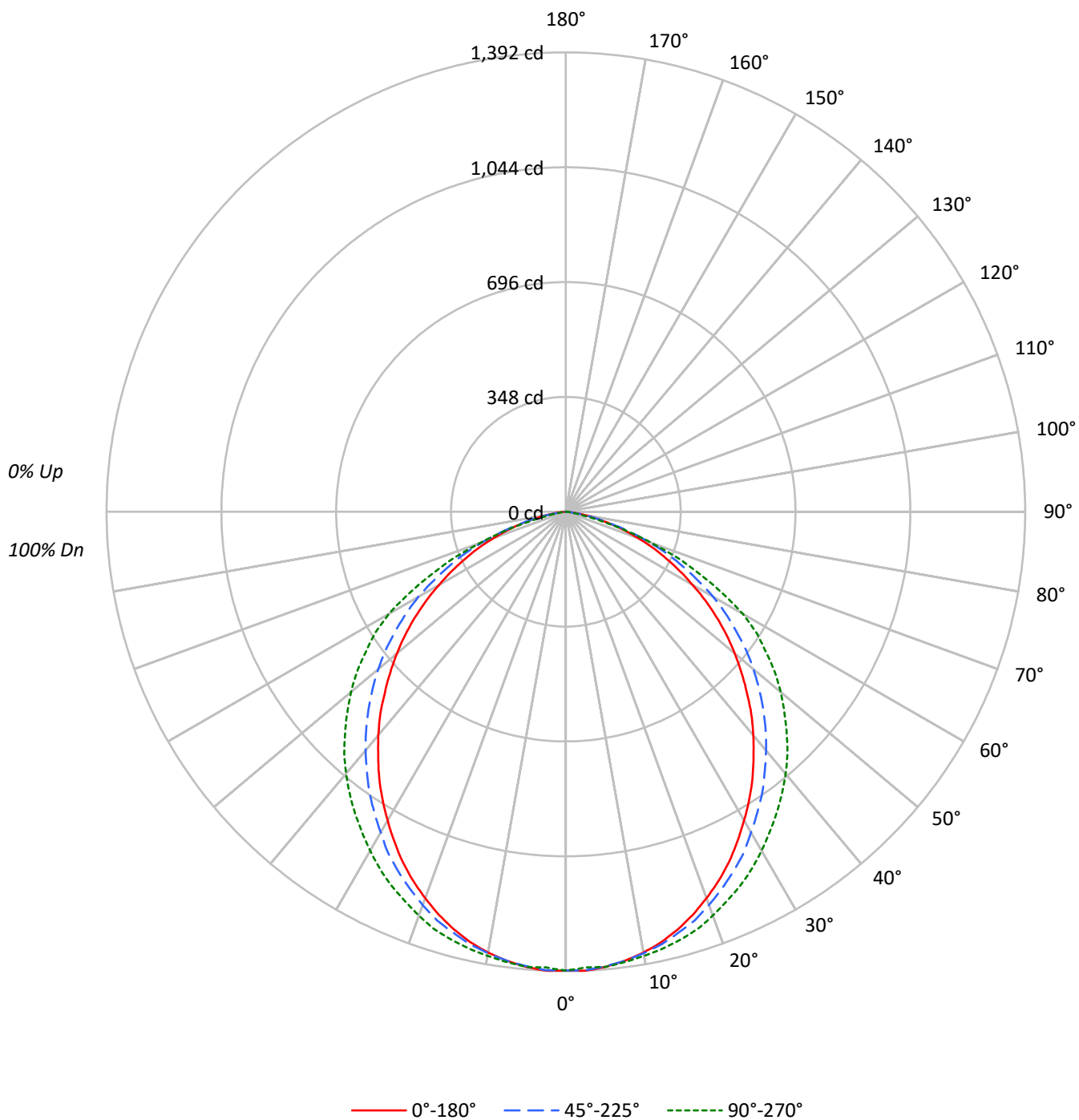
Lumens per Lamp: N/A
Luminaire Lumens: 3500.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1870	1870	1870
5°	1870	1867	1870
10°	1853	1856	1867
15°	1825	1839	1870
20°	1784	1816	1865
25°	1737	1785	1856
30°	1678	1743	1843
35°	1620	1705	1830
40°	1553	1658	1820
45°	1477	1610	1800
50°	1398	1553	1779
55°	1309	1478	1736
60°	1195	1389	1669
65°	1070	1242	1433
70°	913	1046	1094
75°	707	759	613
80°	465	403	217
85°	247	185	124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1800 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	3.8
10°-20°	373.1	10.7
20°-30°	554.8	15.9
30°-40°	652.3	18.6
40°-50°	658.3	18.8
50°-60°	571.6	16.3
60°-70°	389.0	11.1
70°-80°	151.5	4.3
80°-90°	18.1	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°	1059.1	30.3
0°-40°	1711.4	48.9
0°-60°	2941.3	84.0
0°-90°	3500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3500.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1384	1382	1382	1382	1384	131
15°	1310	1312	1320	1334	1342	369
25°	1170	1176	1202	1232	1250	538
35°	986	998	1038	1086	1114	616
45°	776	796	846	912	946	599
55°	558	576	630	702	740	498
65°	336	352	390	432	450	334
75°	136	144	146	132	118	148
85°	16	16	12	10	8	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.2	1390.2	1390.2	1390.2	1390.2
2.5°	1392.2	1392.2	1390.2	1384.2	1382.2
5°	1384.2	1382.2	1382.2	1382.2	1384.2
7.5°	1372.2	1372.2	1372.2	1374.2	1376.2
10°	1356.2	1356.2	1358.2	1362.2	1366.2
12.5°	1336.2	1338.2	1342.2	1350.2	1356.2
15°	1310.2	1312.2	1320.2	1334.2	1342.2
17.5°	1280.2	1286.2	1298.2	1314.2	1326.2
20°	1246.2	1252.2	1268.2	1288.2	1302.2
22.5°	1210.2	1216.2	1236.2	1260.2	1276.2
25°	1170.2	1176.2	1202.2	1232.2	1250.2
27.5°	1126.2	1134.2	1166.2	1198.2	1220.2
30°	1080.2	1090.2	1122.2	1162.2	1186.2
32.5°	1034.2	1046.2	1080.2	1126.2	1150.2
35°	986.2	998.2	1038.2	1086.2	1114.2
37.5°	934.2	948.2	990.2	1048.2	1076.2
40°	884.1	898.1	944.2	1006.2	1036.2
42.5°	832.1	848.1	896.1	960.2	994.2
45°	776.1	796.1	846.1	912.1	946.2
47.5°	722.1	740.1	794.1	862.1	898.1
50°	668.1	688.1	742.1	812.1	850.1
52.5°	614.1	632.1	688.1	758.1	798.1
55°	558.1	576.1	630.1	702.1	740.1
57.5°	502.1	524.1	574.1	644.1	686.1
60°	444.1	464.1	516.1	586.1	620.1
62.5°	390.1	408.1	452.1	518.1	534.1
65°	336.1	352.1	390.1	432.1	450.1
67.5°	286.0	298.0	332.1	360.1	368.1
70°	232.0	244.0	266.0	282.0	278.0
72.5°	184.0	192.0	206.0	204.0	194.0
75°	136.0	144.0	146.0	132.0	118.0
77.5°	96.0	100.0	94.0	74.0	60.0
80°	60.0	62.0	52.0	32.0	28.0
82.5°	34.0	34.0	24.0	20.0	16.0
85°	16.0	16.0	12.0	10.0	8.0
87.5°	6.0	6.0	4.0	4.0	4.0
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	12.78	14.36	13.14	14.67	14.99	14.36	15.94	14.72	16.25	16.57
	3H	14.12	15.53	14.49	15.86	16.22	15.63	17.05	16.01	17.37	17.73
	4H	14.48	15.81	14.88	16.16	16.54	15.82	17.15	16.22	17.50	17.88
	6H	14.65	15.87	15.06	16.24	16.63	15.82	17.05	16.23	17.41	17.81
	8H	14.66	15.83	15.09	16.22	16.62	15.79	16.96	16.22	17.35	17.75
	12H	14.65	15.77	15.08	16.16	16.58	15.77	16.89	16.20	17.27	17.70
4H	2H	13.44	14.77	13.84	15.12	15.50	14.74	16.07	15.14	16.41	16.79
	3H	14.94	16.04	15.35	16.44	16.84	16.17	17.28	16.58	17.67	18.08
	4H	15.38	16.37	15.82	16.79	17.23	16.43	17.42	16.86	17.83	18.27
	6H	15.61	16.47	16.07	16.91	17.37	16.45	17.31	16.91	17.75	18.21
	8H	15.63	16.43	16.10	16.88	17.34	16.43	17.23	16.89	17.67	18.14
	12H	15.64	16.35	16.12	16.83	17.30	16.41	17.12	16.89	17.60	18.07
8H	4H	15.54	16.34	16.00	16.79	17.25	16.51	17.31	16.97	17.76	18.22
	6H	15.80	16.46	16.30	16.95	17.43	16.54	17.20	17.04	17.69	18.17
	8H	15.84	16.43	16.36	16.94	17.43	16.52	17.11	17.03	17.62	18.10
	12H	15.86	16.38	16.37	16.87	17.44	16.50	17.02	17.01	17.51	18.08
12H	4H	15.52	16.24	16.01	16.72	17.19	16.50	17.21	16.98	17.69	18.16
	6H	15.77	16.36	16.29	16.87	17.36	16.52	17.11	17.03	17.62	18.10
	8H	15.84	16.36	16.35	16.85	17.42	16.52	17.03	17.02	17.53	18.09