

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: P1499099

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499099
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-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

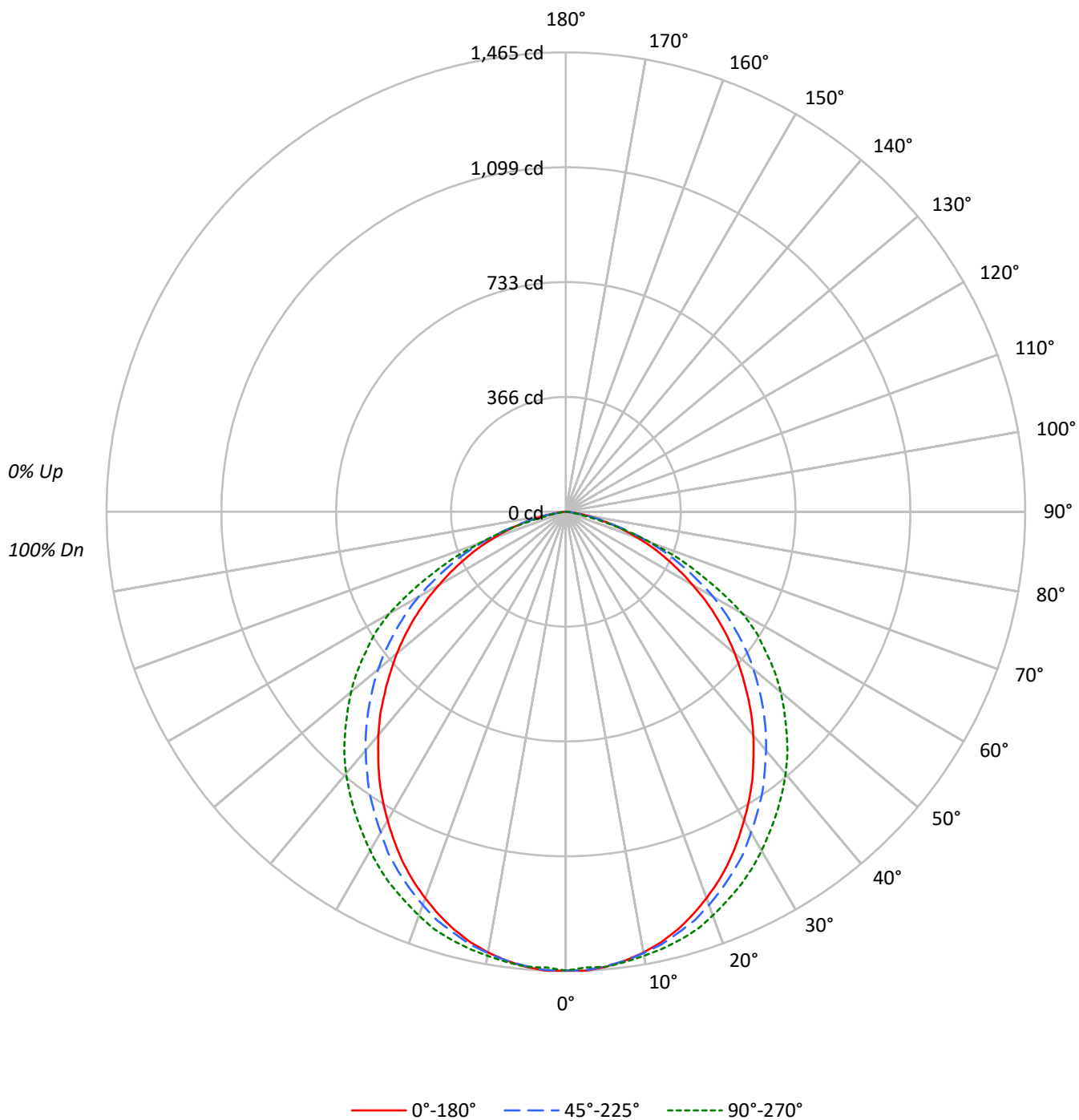
Lumens per Lamp: N/A
Luminaire Lumens: 3683.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1499099

CATALOG NUMBER: MAE-G-4-120-1STD-50-90-WDDCPH

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°	1968	1968	1968
5°	1967	1964	1967
10°	1950	1953	1964
15°	1920	1935	1967
20°	1878	1911	1962
25°	1828	1878	1953
30°	1766	1835	1939
35°	1704	1794	1926
40°	1634	1745	1915
45°	1554	1694	1894
50°	1472	1635	1873
55°	1378	1555	1827
60°	1257	1461	1756
65°	1126	1307	1508
70°	961	1102	1151
75°	744	799	646
80°	489	424	229
85°	259	195	130

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1894 cd/sqm

TEST NUMBER: P1499099

CATALOG NUMBER: MAE-G-4-120-1STD-50-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.1	3.8
10°-20°	392.6	10.7
20°-30°	583.8	15.9
30°-40°	686.4	18.6
40°-50°	692.7	18.8
50°-60°	601.5	16.3
60°-70°	409.4	11.1
70°-80°	159.5	4.3
80°-90°	19.1	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°	1114.5	30.3
0°-40°	1800.9	48.9
0°-60°	3095.1	84.0
0°-90°	3683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1457	1454	1454	1454	1457	138
15°	1379	1381	1389	1404	1412	388
25°	1231	1238	1265	1297	1316	566
35°	1038	1050	1092	1143	1172	648
45°	817	838	890	960	996	630
55°	587	606	663	739	779	524
65°	354	370	410	455	474	351
75°	143	152	154	139	124	156
85°	17	17	13	10	8	25
90°	0	0	0	0	0	

TEST NUMBER: P1499099

CATALOG NUMBER: MAE-G-4-120-1STD-50-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.9	1462.9	1462.9	1462.9	1462.9
2.5°	1465.0	1465.0	1462.9	1456.6	1454.5
5°	1456.6	1454.5	1454.5	1454.5	1456.6
7.5°	1444.0	1444.0	1444.0	1446.1	1448.2
10°	1427.1	1427.1	1429.2	1433.4	1437.7
12.5°	1406.1	1408.2	1412.4	1420.8	1427.1
15°	1378.7	1380.8	1389.2	1404.0	1412.4
17.5°	1347.1	1353.5	1366.1	1382.9	1395.6
20°	1311.4	1317.7	1334.5	1355.6	1370.3
22.5°	1273.5	1279.8	1300.8	1326.1	1342.9
25°	1231.4	1237.7	1265.1	1296.6	1315.6
27.5°	1185.1	1193.5	1227.2	1260.8	1284.0
30°	1136.7	1147.2	1180.9	1223.0	1248.2
32.5°	1088.2	1100.9	1136.7	1185.1	1210.3
35°	1037.7	1050.4	1092.5	1143.0	1172.4
37.5°	983.0	997.7	1041.9	1103.0	1132.4
40°	930.4	945.1	993.5	1058.8	1090.3
42.5°	875.6	892.5	943.0	1010.4	1046.1
45°	816.7	837.8	890.4	959.8	995.6
47.5°	759.9	778.8	835.7	907.2	945.1
50°	703.0	724.1	780.9	854.6	894.6
52.5°	646.2	665.2	724.1	797.8	839.9
55°	587.3	606.2	663.0	738.8	778.8
57.5°	528.3	551.5	604.1	677.8	722.0
60°	467.3	488.3	543.1	616.7	652.5
62.5°	410.5	429.4	475.7	545.2	562.0
65°	353.6	370.5	410.5	454.7	473.6
67.5°	301.0	313.6	349.4	378.9	387.3
70°	244.2	256.8	280.0	296.8	292.6
72.5°	193.7	202.1	216.8	214.7	204.2
75°	143.1	151.6	153.7	138.9	124.2
77.5°	101.0	105.2	98.9	77.9	63.1
80°	63.1	65.3	54.7	33.7	29.5
82.5°	35.8	35.8	25.3	21.0	16.8
85°	16.8	16.8	12.6	10.5	8.4
87.5°	6.3	6.3	4.2	4.2	4.2
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	12.96	14.54	13.32	14.85	15.16	14.54	16.12	14.90	16.43	16.74
	3H	14.29	15.71	14.67	16.04	16.40	15.81	17.22	16.18	17.55	17.91
	4H	14.66	15.99	15.06	16.34	16.72	16.00	17.33	16.40	17.68	18.06
	6H	14.82	16.05	15.24	16.42	16.81	16.00	17.23	16.41	17.59	17.98
	8H	14.84	16.01	15.26	16.40	16.80	15.97	17.14	16.40	17.53	17.93
	12H	14.83	15.95	15.26	16.33	16.76	15.95	17.07	16.38	17.45	17.88
4H	2H	13.62	14.95	14.02	15.30	15.68	14.91	16.24	15.31	16.59	16.97
	3H	15.12	16.22	15.53	16.62	17.02	16.35	17.45	16.76	17.85	18.25
	4H	15.56	16.55	15.99	16.97	17.40	16.60	17.59	17.04	18.01	18.45
	6H	15.79	16.65	16.24	17.09	17.55	16.63	17.49	17.09	17.93	18.39
	8H	15.81	16.61	16.27	17.06	17.52	16.60	17.41	17.07	17.85	18.32
	12H	15.81	16.53	16.30	17.01	17.48	16.58	17.30	17.06	17.78	18.25
8H	4H	15.72	16.52	16.18	16.96	17.43	16.69	17.49	17.15	17.93	18.40
	6H	15.98	16.64	16.47	17.13	17.61	16.72	17.38	17.22	17.87	18.35
	8H	16.02	16.61	16.53	17.12	17.61	16.70	17.28	17.21	17.79	18.28
	12H	16.04	16.56	16.55	17.05	17.62	16.68	17.20	17.19	17.69	18.26
12H	4H	15.70	16.42	16.18	16.89	17.36	16.67	17.39	17.16	17.87	18.34
	6H	15.95	16.54	16.46	17.05	17.54	16.69	17.29	17.21	17.79	18.28
	8H	16.02	16.54	16.53	17.03	17.59	16.69	17.21	17.20	17.70	18.27