

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: P1498889

Luminaire Tested: MAE-G-4-120-1HI-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498889
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-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

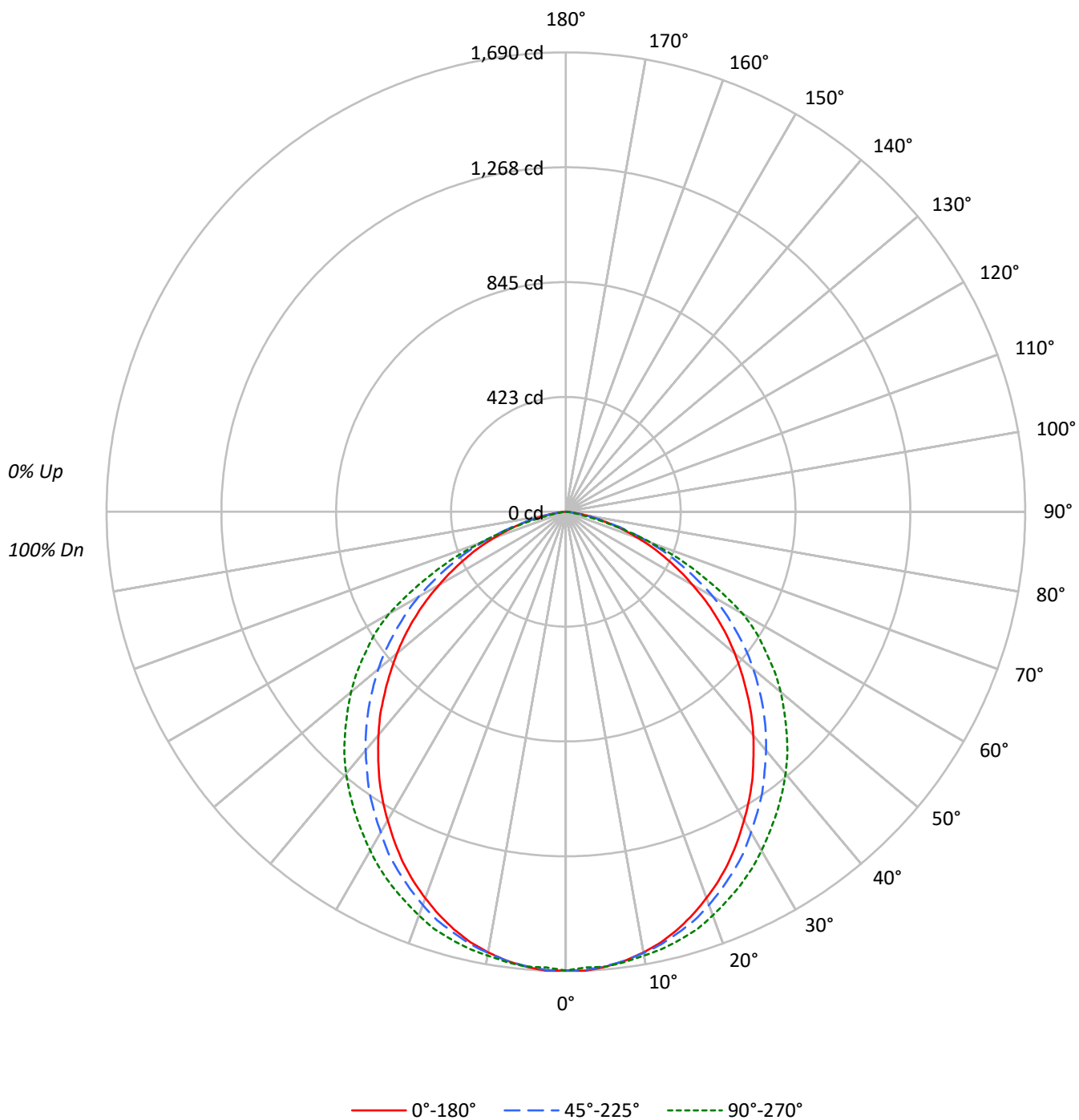
Lumens per Lamp: N/A
Luminaire Lumens: 4248.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1498889

CATALOG NUMBER: MAE-G-4-120-1HI-30-90-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	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	73
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	64	64	62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	55	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	43	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2270	2270	2270
5°	2269	2266	2269
10°	2249	2252	2266
15°	2215	2232	2269
20°	2166	2204	2263
25°	2109	2166	2253
30°	2037	2116	2237
35°	1966	2070	2221
40°	1885	2013	2209
45°	1792	1954	2185
50°	1697	1885	2160
55°	1589	1794	2107
60°	1450	1686	2025
65°	1299	1507	1739
70°	1108	1270	1328
75°	858	921	744
80°	564	489	263
85°	299	225	150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2185 cd/sqm

TEST NUMBER: P1498889

CATALOG NUMBER: MAE-G-4-120-1HI-30-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	3.8
10°-20°	452.9	10.7
20°-30°	673.3	15.9
30°-40°	791.6	18.6
40°-50°	799.0	18.8
50°-60°	693.8	16.3
60°-70°	472.2	11.1
70°-80°	183.9	4.3
80°-90°	22.0	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°	1285.5	30.3
0°-40°	2077.1	48.9
0°-60°	3569.9	84.0
0°-90°	4248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4248.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1680	1678	1678	1678	1680	159
15°	1590	1593	1602	1619	1629	448
25°	1420	1428	1459	1496	1517	653
35°	1197	1212	1260	1318	1352	747
45°	942	966	1027	1107	1148	727
55°	677	699	765	852	898	605
65°	408	427	473	524	546	405
75°	165	175	177	160	143	180
85°	19	19	15	12	10	28
90°	0	0	0	0	0	

TEST NUMBER: P1498889

CATALOG NUMBER: MAE-G-4-120-1HI-30-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1687.3	1687.3	1687.3	1687.3	1687.3
2.5°	1689.8	1689.8	1687.3	1680.1	1677.6
5°	1680.1	1677.6	1677.6	1677.6	1680.1
7.5°	1665.5	1665.5	1665.5	1667.9	1670.3
10°	1646.1	1646.1	1648.5	1653.3	1658.2
12.5°	1621.8	1624.2	1629.1	1638.8	1646.1
15°	1590.2	1592.7	1602.4	1619.4	1629.1
17.5°	1553.8	1561.1	1575.7	1595.1	1609.6
20°	1512.5	1519.8	1539.2	1563.5	1580.5
22.5°	1468.8	1476.1	1500.4	1529.5	1549.0
25°	1420.3	1427.6	1459.1	1495.5	1517.4
27.5°	1366.9	1376.6	1415.4	1454.3	1481.0
30°	1311.0	1323.2	1362.0	1410.6	1439.7
32.5°	1255.2	1269.8	1311.0	1366.9	1396.0
35°	1196.9	1211.5	1260.0	1318.3	1352.3
37.5°	1133.8	1150.8	1201.8	1272.2	1306.2
40°	1073.1	1090.1	1145.9	1221.2	1257.6
42.5°	1010.0	1029.4	1087.7	1165.4	1206.6
45°	942.0	966.3	1027.0	1107.1	1148.4
47.5°	876.4	898.3	963.8	1046.4	1090.1
50°	810.9	835.2	900.7	985.7	1031.8
52.5°	745.3	767.2	835.2	920.1	968.7
55°	677.4	699.2	764.8	852.2	898.3
57.5°	609.4	636.1	696.8	781.8	832.7
60°	539.0	563.3	626.4	711.4	752.6
62.5°	473.4	495.3	548.7	628.8	648.2
65°	407.9	427.3	473.4	524.4	546.3
67.5°	347.2	361.7	403.0	437.0	446.7
70°	281.6	296.2	322.9	342.3	337.5
72.5°	223.4	233.1	250.1	247.6	235.5
75°	165.1	174.8	177.2	160.2	143.2
77.5°	116.5	121.4	114.1	89.8	72.8
80°	72.8	75.3	63.1	38.8	34.0
82.5°	41.3	41.3	29.1	24.3	19.4
85°	19.4	19.4	14.6	12.1	9.7
87.5°	7.3	7.3	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	13.45	15.03	13.82	15.35	15.66	15.03	16.61	15.40	16.93	17.24
	3H	14.79	16.21	15.17	16.53	16.89	16.30	17.72	16.68	18.05	18.41
	4H	15.16	16.49	15.56	16.83	17.21	16.50	17.83	16.90	18.17	18.55
	6H	15.32	16.55	15.73	16.91	17.31	16.49	17.72	16.91	18.09	18.48
	8H	15.33	16.50	15.76	16.89	17.29	16.47	17.64	16.89	18.03	18.43
	12H	15.33	16.45	15.76	16.83	17.26	16.44	17.56	16.87	17.94	18.37
4H	2H	14.12	15.45	14.52	15.80	16.17	15.41	16.74	15.81	17.09	17.46
	3H	15.61	16.72	16.03	17.12	17.52	16.85	17.95	17.26	18.35	18.75
	4H	16.06	17.05	16.49	17.46	17.90	17.10	18.09	17.53	18.50	18.94
	6H	16.28	17.14	16.74	17.58	18.04	17.13	17.99	17.58	18.43	18.89
	8H	16.31	17.11	16.77	17.55	18.02	17.10	17.90	17.56	18.34	18.81
	12H	16.31	17.03	16.79	17.50	17.97	17.08	17.79	17.56	18.27	18.74
8H	4H	16.22	17.02	16.68	17.46	17.93	17.18	17.98	17.65	18.43	18.90
	6H	16.47	17.13	16.97	17.62	18.10	17.22	17.88	17.71	18.37	18.84
	8H	16.52	17.11	17.03	17.61	18.10	17.19	17.78	17.70	18.29	18.78
	12H	16.54	17.06	17.05	17.55	18.11	17.18	17.69	17.68	18.19	18.75
12H	4H	16.20	16.91	16.68	17.39	17.86	17.17	17.88	17.65	18.36	18.83
	6H	16.45	17.04	16.96	17.55	18.03	17.19	17.78	17.70	18.29	18.78
	8H	16.51	17.03	17.02	17.53	18.09	17.19	17.71	17.70	18.20	18.76