

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: P1499381

Luminaire Tested: MAE-G-4-120-2STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

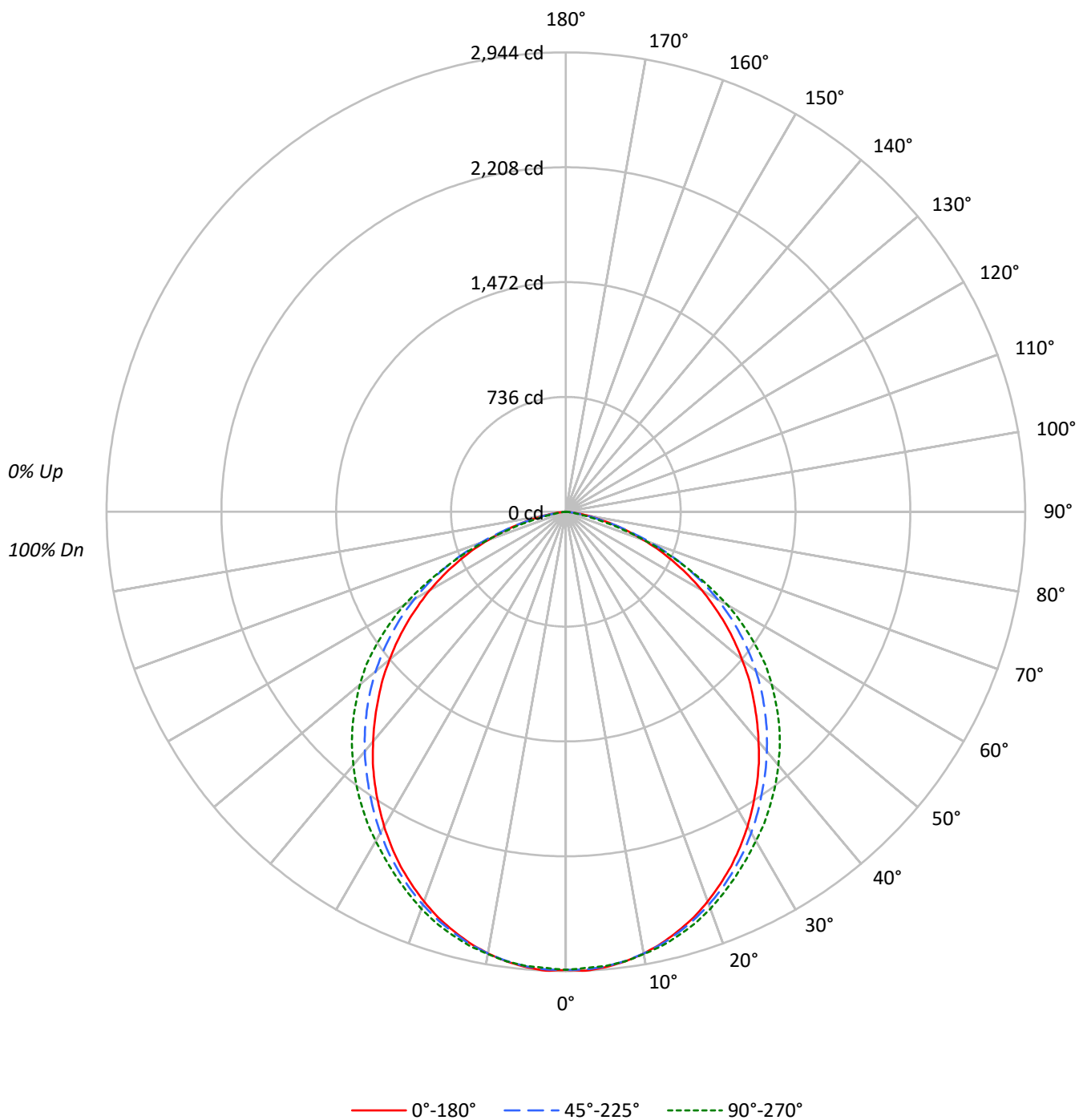
Lumens per Lamp: N/A
Luminaire Lumens: 7411.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
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: P1499381

CATALOG NUMBER: MAE-G-4-120-2STD-40-90-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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3950	3950	3950
5°	3957	3951	3947
10°	3927	3927	3932
15°	3874	3888	3912
20°	3806	3837	3877
25°	3721	3770	3826
30°	3618	3692	3786
35°	3504	3603	3756
40°	3374	3521	3721
45°	3236	3433	3680
50°	3086	3331	3606
55°	2916	3197	3470
60°	2710	3018	3222
65°	2444	2742	2758
70°	2087	2282	2133
75°	1638	1653	1332
80°	1065	850	511
85°	492	323	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3680 cd/sqm

TEST NUMBER: P1499381

CATALOG NUMBER: MAE-G-4-120-2STD-40-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.3	3.7
10°-20°	786.5	10.6
20°-30°	1168.3	15.8
30°-40°	1376.1	18.6
40°-50°	1394.1	18.8
50°-60°	1213.5	16.4
60°-70°	826.9	11.2
70°-80°	330.5	4.5
80°-90°	37.8	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°	2232.0	30.1
0°-40°	3608.2	48.7
0°-60°	6215.8	83.9
0°-90°	7411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2936	2936	2936	2936	2936	
5°	2930	2913	2925	2921	2922	278
15°	2781	2770	2791	2802	2808	784
25°	2506	2507	2539	2560	2577	1153
35°	2133	2144	2193	2251	2287	1333
45°	1701	1722	1804	1889	1934	1313
55°	1243	1270	1363	1448	1479	1111
65°	768	804	861	862	866	761
75°	315	334	318	273	256	339
85°	32	29	21	19	17	50
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-4-120-2STD-40-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2935.9	2935.9	2935.9	2935.9	2935.9
2.5°	2944.0	2925.1	2935.9	2933.9	2925.9
5°	2929.9	2912.9	2925.1	2921.1	2922.0
7.5°	2907.0	2891.1	2904.1	2903.0	2906.1
10°	2874.2	2858.3	2874.2	2875.0	2878.1
12.5°	2833.2	2819.3	2838.2	2842.2	2849.3
15°	2781.4	2769.5	2791.3	2801.5	2808.3
17.5°	2725.7	2717.7	2739.5	2752.5	2763.6
20°	2657.8	2653.8	2679.8	2692.6	2707.6
22.5°	2584.0	2582.0	2613.1	2628.9	2643.9
25°	2506.2	2507.3	2539.2	2560.2	2577.1
27.5°	2420.5	2422.5	2461.5	2486.4	2507.3
30°	2328.8	2333.9	2376.6	2410.6	2436.6
32.5°	2232.1	2241.1	2286.9	2333.9	2366.7
35°	2133.4	2143.5	2193.3	2251.0	2286.9
37.5°	2031.8	2042.8	2100.5	2168.4	2206.3
40°	1921.2	1937.9	2004.9	2079.6	2118.4
42.5°	1812.3	1831.3	1906.2	1987.9	2029.8
45°	1700.8	1721.8	1804.4	1889.2	1934.0
47.5°	1593.1	1610.9	1699.7	1788.5	1828.4
50°	1474.5	1498.3	1591.1	1679.9	1722.6
52.5°	1360.8	1383.8	1478.5	1569.1	1613.1
55°	1243.2	1270.1	1362.8	1448.5	1479.4
57.5°	1124.6	1155.5	1245.2	1315.9	1342.8
60°	1007.0	1037.8	1121.6	1177.3	1197.3
62.5°	888.2	920.2	994.0	1027.9	1031.9
65°	767.7	803.6	861.3	862.4	866.4
67.5°	653.1	682.8	724.7	712.8	706.9
70°	530.4	563.2	580.2	556.4	542.3
72.5°	421.7	445.5	442.7	407.6	390.9
75°	315.1	334.0	318.0	273.2	256.3
77.5°	218.4	234.2	202.3	160.4	143.7
80°	137.5	144.5	109.7	77.8	65.9
82.5°	73.8	72.7	46.9	38.8	35.9
85°	31.9	28.9	20.9	18.9	17.0
87.5°	11.0	9.9	7.9	7.1	5.9
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	15.69	17.27	16.05	17.58	17.90	16.65	18.23	17.01	18.55	18.86
	3H	17.11	18.53	17.49	18.86	19.22	17.84	19.26	18.22	19.59	19.95
	4H	17.50	18.84	17.90	19.18	19.56	18.05	19.39	18.45	19.74	20.11
	6H	17.68	18.91	18.09	19.27	19.66	18.07	19.30	18.48	19.67	20.06
	8H	17.69	18.86	18.12	19.25	19.65	18.05	19.22	18.47	19.61	20.01
	12H	17.68	18.80	18.11	19.18	19.61	18.02	19.15	18.45	19.53	19.96
4H	2H	16.35	17.68	16.75	18.03	18.41	17.12	18.46	17.52	18.80	19.18
	3H	17.93	19.03	18.34	19.43	19.83	18.47	19.58	18.88	19.98	20.38
	4H	18.40	19.40	18.84	19.81	20.25	18.74	19.73	19.17	20.15	20.59
	6H	18.64	19.50	19.10	19.95	20.40	18.79	19.65	19.25	20.10	20.55
	8H	18.67	19.47	19.13	19.91	20.38	18.77	19.57	19.23	20.02	20.48
	12H	18.66	19.38	19.15	19.86	20.33	18.75	19.46	19.23	19.94	20.41
8H	4H	18.54	19.34	19.00	19.79	20.25	18.86	19.66	19.32	20.10	20.57
	6H	18.82	19.48	19.31	19.97	20.44	18.92	19.58	19.41	20.07	20.54
	8H	18.85	19.44	19.37	19.95	20.44	18.89	19.48	19.41	19.99	20.48
	12H	18.87	19.39	19.38	19.88	20.44	18.88	19.40	19.39	19.89	20.45
12H	4H	18.52	19.24	19.00	19.72	20.19	18.85	19.56	19.33	20.04	20.51
	6H	18.79	19.38	19.30	19.89	20.37	18.89	19.48	19.41	19.99	20.48
	8H	18.85	19.37	19.36	19.86	20.43	18.89	19.41	19.40	19.90	20.47