

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: P1499168

Luminaire Tested: MAE-G-4-120-1STD-STD-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499168
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-STD-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

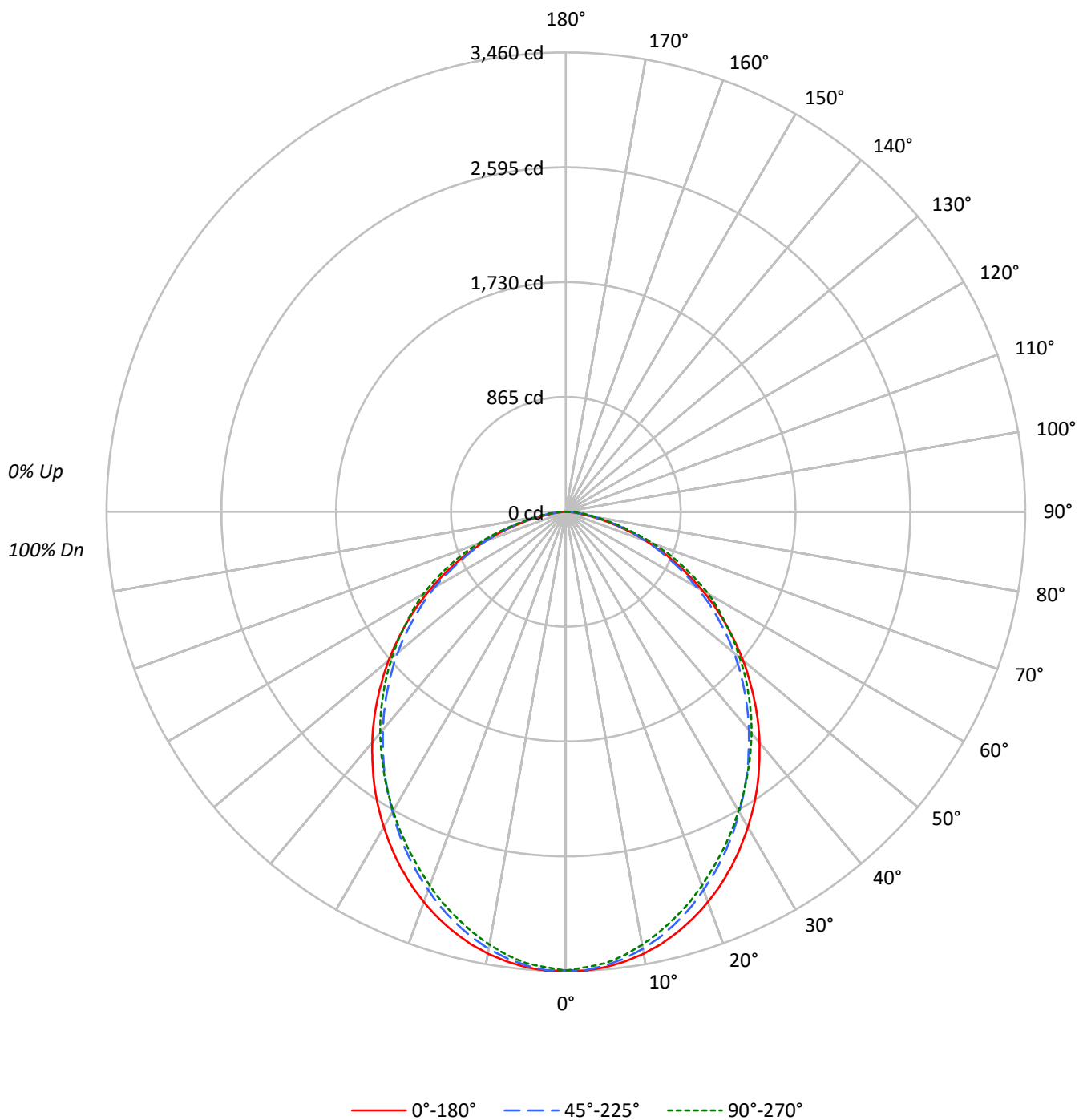
Lumens per Lamp: N/A
Luminaire Lumens: 8269.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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: P1499168

CATALOG NUMBER: MAE-G-4-120-1STD-STD-40-WDDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1499168

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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	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64
5	78	65	56	50	75	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4649	4649	4649
5°	4651	4633	4611
10°	4617	4567	4524
15°	4559	4465	4412
20°	4479	4340	4290
25°	4380	4206	4164
30°	4260	4056	4041
35°	4133	3914	3927
40°	3986	3766	3821
45°	3823	3618	3703
50°	3648	3462	3580
55°	3446	3278	3451
60°	3198	3068	3337
65°	2910	2796	3102
70°	2525	2513	2764
75°	2015	2139	2270
80°	1394	1653	1801
85°	778	1260	1639

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3823 cd/sqm

TEST NUMBER: P1499168

CATALOG NUMBER: MAE-G-4-120-1STD-STD-40-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.4	3.9
10°-20°	904.2	10.9
20°-30°	1313.5	15.9
30°-40°	1511.6	18.3
40°-50°	1496.2	18.1
50°-60°	1281.1	15.5
60°-70°	903.5	10.9
70°-80°	439.0	5.3
80°-90°	95.6	1.2
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°	2542.1	30.7
0°-40°	4053.7	49.0
0°-60°	6830.9	82.6
0°-90°	8269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3456	3456	3456	3456	3456	
5°	3444	3441	3430	3406	3414	327
15°	3273	3255	3206	3163	3167	922
25°	2950	2907	2833	2797	2805	1358
35°	2516	2457	2383	2374	2391	1572
45°	2009	1955	1902	1925	1946	1550
55°	1469	1419	1398	1439	1471	1312
65°	914	875	878	945	974	905
75°	388	371	412	437	437	418
85°	50	62	82	99	106	71
90°	0	0	0	0	0	

TEST NUMBER: P1499168

CATALOG NUMBER: MAE-G-4-120-1STD-STD-40-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3455.5	3455.5	3455.5	3455.5	3455.5
2.5°	3459.5	3462.4	3455.5	3429.6	3434.1
5°	3443.6	3440.7	3430.4	3406.1	3413.8
7.5°	3416.1	3411.3	3392.8	3364.1	3369.1
10°	3379.6	3370.2	3342.7	3306.8	3311.0
12.5°	3332.3	3319.6	3280.8	3240.2	3244.7
15°	3273.1	3254.9	3205.5	3162.8	3167.3
17.5°	3205.1	3184.3	3124.6	3078.3	3088.1
20°	3128.2	3100.0	3031.4	2987.4	2995.8
22.5°	3043.4	3008.0	2936.0	2893.5	2900.3
25°	2950.0	2907.1	2833.2	2796.9	2804.8
27.5°	2849.3	2802.1	2726.2	2693.0	2705.2
30°	2742.0	2691.1	2610.7	2587.9	2601.2
32.5°	2631.8	2577.7	2498.3	2483.7	2497.0
35°	2516.0	2457.0	2383.2	2374.3	2391.0
37.5°	2392.1	2335.4	2262.4	2268.1	2283.7
40°	2269.4	2210.7	2144.0	2156.6	2175.4
42.5°	2141.8	2085.1	2024.2	2041.8	2063.9
45°	2008.9	1954.8	1901.6	1925.0	1946.0
47.5°	1875.4	1821.9	1778.6	1806.0	1831.0
50°	1742.9	1691.5	1653.7	1686.9	1710.4
52.5°	1604.0	1554.9	1527.8	1562.8	1593.1
55°	1469.2	1419.3	1397.5	1439.2	1471.2
57.5°	1329.9	1289.0	1270.1	1319.2	1359.1
60°	1188.5	1148.2	1140.1	1202.0	1239.9
62.5°	1050.3	1010.7	1007.2	1079.6	1106.9
65°	914.1	875.1	878.1	945.0	974.3
67.5°	779.3	743.5	759.9	824.1	843.7
70°	641.9	610.0	638.8	693.1	702.7
72.5°	513.0	486.1	525.2	563.2	565.5
75°	387.7	371.1	411.5	436.6	436.7
77.5°	277.4	268.8	306.0	323.0	324.1
80°	179.9	183.9	213.3	226.6	232.4
82.5°	104.9	114.2	137.1	159.8	165.8
85°	50.4	61.5	81.6	99.0	106.2
87.5°	17.5	24.9	34.0	37.7	36.7
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	16.14	17.72	16.50	18.03	18.35	16.31	17.89	16.67	18.20	18.52
	3H	17.59	19.01	17.96	19.34	19.70	17.95	19.38	18.33	19.70	20.06
	4H	18.01	19.35	18.41	19.70	20.08	18.45	19.79	18.85	20.14	20.52
	6H	18.23	19.47	18.65	19.84	20.23	18.75	19.99	19.16	20.35	20.74
	8H	18.27	19.45	18.69	19.84	20.24	18.84	20.02	19.26	20.41	20.81
	12H	18.27	19.40	18.70	19.79	20.21	18.90	20.03	19.33	20.41	20.84
4H	2H	16.65	17.99	17.05	18.34	18.72	16.79	18.13	17.19	18.48	18.85
	3H	18.29	19.40	18.70	19.80	20.20	18.64	19.75	19.05	20.15	20.55
	4H	18.80	19.80	19.23	20.22	20.66	19.25	20.26	19.69	20.67	21.11
	6H	19.10	19.98	19.56	20.42	20.87	19.65	20.53	20.11	20.97	21.43
	8H	19.16	19.97	19.62	20.42	20.88	19.78	20.59	20.24	21.04	21.50
	12H	19.18	19.91	19.66	20.39	20.86	19.87	20.60	20.35	21.08	21.55
8H	4H	19.02	19.84	19.49	20.28	20.75	19.44	20.25	19.90	20.70	21.16
	6H	19.39	20.07	19.89	20.56	21.03	19.91	20.59	20.41	21.08	21.56
	8H	19.48	20.09	19.99	20.59	21.08	20.09	20.70	20.60	21.20	21.69
	12H	19.53	20.07	20.04	20.56	21.12	20.25	20.78	20.76	21.27	21.84
12H	4H	19.04	19.77	19.52	20.24	20.72	19.44	20.17	19.92	20.64	21.11
	6H	19.41	20.02	19.92	20.53	21.01	19.92	20.53	20.43	21.03	21.52
	8H	19.54	20.08	20.05	20.57	21.13	20.14	20.67	20.65	21.17	21.73