

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: P1498223

Luminaire Tested: MAE-G-2-120-1STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498223
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-2-120-1STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

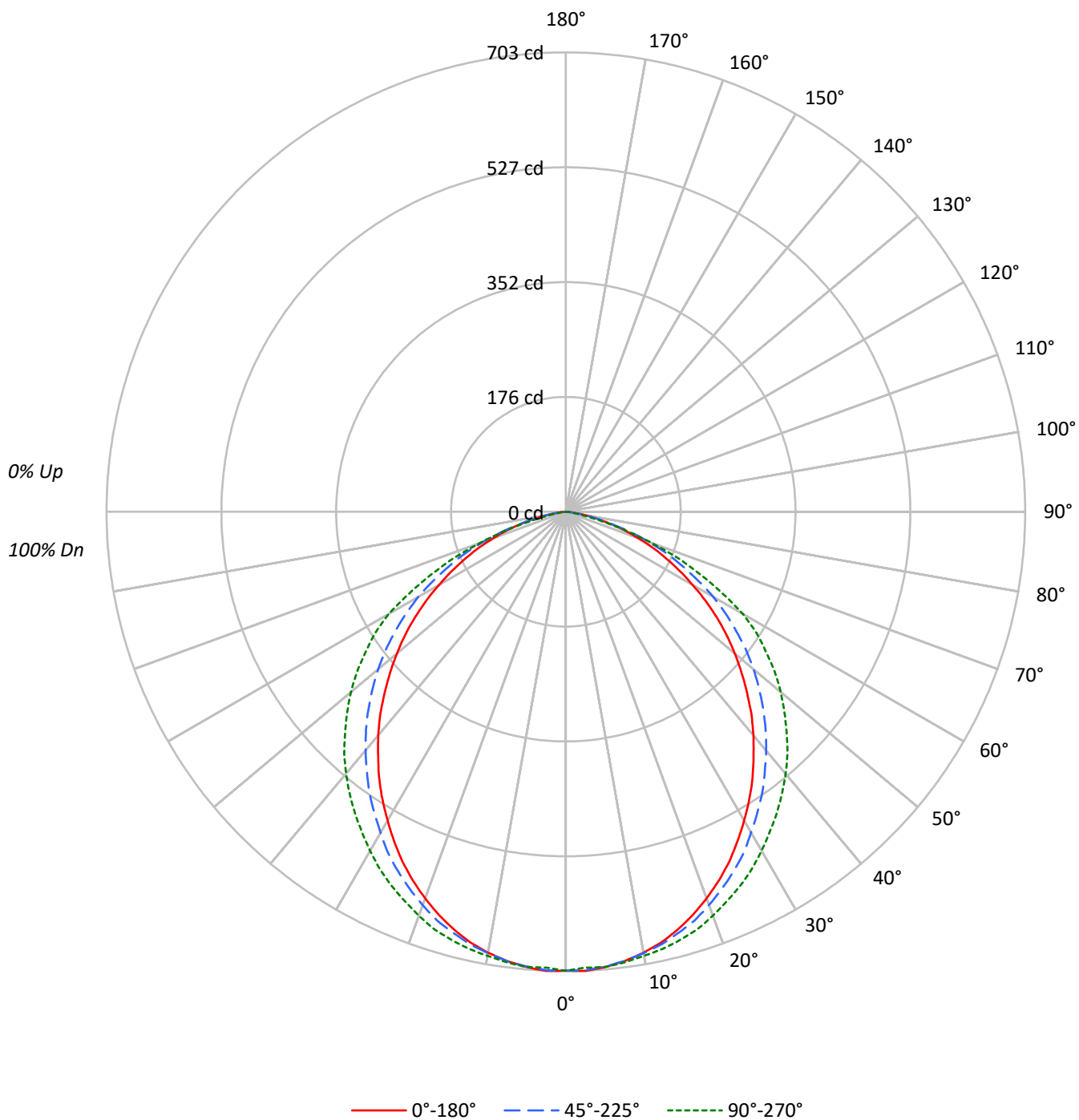
Lumens per Lamp: N/A
Luminaire Lumens: 1768.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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: P1498223

CATALOG NUMBER: MAE-G-2-120-1STD-35-90-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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	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		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1890	1890	1890
5°	1889	1886	1889
10°	1872	1875	1886
15°	1844	1858	1889
20°	1803	1834	1884
25°	1755	1803	1875
30°	1695	1762	1862
35°	1637	1723	1849
40°	1569	1675	1839
45°	1492	1627	1819
50°	1413	1569	1798
55°	1323	1493	1754
60°	1207	1403	1686
65°	1081	1254	1448
70°	922	1057	1105
75°	714	767	620
80°	470	408	219
85°	250	188	124

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1819 cd/sqm

TEST NUMBER: P1498223

CATALOG NUMBER: MAE-G-2-120-1STD-35-90-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.3	3.8
10°-20°	188.5	10.7
20°-30°	280.2	15.9
30°-40°	329.5	18.6
40°-50°	332.5	18.8
50°-60°	288.7	16.3
60°-70°	196.5	11.1
70°-80°	76.6	4.3
80°-90°	9.2	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°	535.0	30.3
0°-40°	864.5	48.9
0°-60°	1485.8	84.0
0°-90°	1768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	699	698	698	698	699	66
15°	662	663	667	674	678	186
25°	591	594	607	622	632	272
35°	498	504	524	549	563	311
45°	392	402	427	461	478	303
55°	282	291	318	355	374	252
65°	170	178	197	218	227	169
75°	69	73	74	67	60	75
85°	8	8	6	5	4	12
90°	0	0	0	0	0	

TEST NUMBER: P1498223

CATALOG NUMBER: MAE-G-2-120-1STD-35-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.3	702.3	702.3	702.3	702.3
2.5°	703.3	703.3	702.3	699.2	698.2
5°	699.2	698.2	698.2	698.2	699.2
7.5°	693.2	693.2	693.2	694.2	695.2
10°	685.1	685.1	686.1	688.1	690.1
12.5°	675.0	676.0	678.0	682.1	685.1
15°	661.8	662.9	666.9	674.0	678.0
17.5°	646.7	649.7	655.8	663.9	669.9
20°	629.5	632.5	640.6	650.7	657.8
22.5°	611.3	614.4	624.5	636.6	644.7
25°	591.1	594.1	607.3	622.4	631.5
27.5°	568.9	572.9	589.1	605.3	616.4
30°	545.6	550.7	566.9	587.1	599.2
32.5°	522.4	528.5	545.6	568.9	581.0
35°	498.2	504.2	524.4	548.7	562.8
37.5°	471.9	479.0	500.2	529.5	543.6
40°	446.6	453.7	476.9	508.3	523.4
42.5°	420.3	428.4	452.7	485.0	502.2
45°	392.1	402.2	427.4	460.8	477.9
47.5°	364.8	373.9	401.1	435.5	453.7
50°	337.5	347.6	374.9	410.2	429.4
52.5°	310.2	319.3	347.6	383.0	403.2
55°	281.9	291.0	318.3	354.7	373.9
57.5°	253.6	264.7	290.0	325.4	346.6
60°	224.3	234.4	260.7	296.1	313.2
62.5°	197.0	206.1	228.4	261.7	269.8
65°	169.8	177.8	197.0	218.3	227.4
67.5°	144.5	150.6	167.7	181.9	185.9
70°	117.2	123.3	134.4	142.5	140.5
72.5°	93.0	97.0	104.1	103.1	98.0
75°	68.7	72.8	73.8	66.7	59.6
77.5°	48.5	50.5	47.5	37.4	30.3
80°	30.3	31.3	26.3	16.2	14.1
82.5°	17.2	17.2	12.1	10.1	8.1
85°	8.1	8.1	6.1	5.1	4.0
87.5°	3.0	3.0	2.0	2.0	2.0
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	12.81	14.39	13.18	14.71	15.02	14.40	15.97	14.76	16.29	16.60
	3H	14.15	15.57	14.53	15.90	16.26	15.66	17.08	16.04	17.41	17.77
	4H	14.52	15.85	14.92	16.20	16.57	15.86	17.19	16.26	17.54	17.91
	6H	14.68	15.91	15.09	16.28	16.67	15.86	17.08	16.27	17.45	17.84
	8H	14.70	15.87	15.12	16.26	16.66	15.83	17.00	16.26	17.39	17.79
	12H	14.69	15.81	15.12	16.19	16.62	15.81	16.92	16.24	17.31	17.74
4H	2H	13.48	14.81	13.88	15.16	15.53	14.77	16.10	15.17	16.45	16.83
	3H	14.98	16.08	15.39	16.48	16.88	16.21	17.31	16.62	17.71	18.11
	4H	15.42	16.41	15.85	16.82	17.26	16.46	17.45	16.90	17.87	18.30
	6H	15.65	16.50	16.10	16.95	17.40	16.49	17.35	16.95	17.79	18.25
	8H	15.67	16.47	16.13	16.91	17.38	16.46	17.26	16.93	17.71	18.17
	12H	15.67	16.39	16.15	16.87	17.34	16.44	17.16	16.92	17.63	18.11
8H	4H	15.58	16.38	16.04	16.82	17.29	16.55	17.35	17.01	17.79	18.26
	6H	15.84	16.50	16.33	16.99	17.46	16.58	17.24	17.08	17.73	18.21
	8H	15.88	16.47	16.39	16.98	17.46	16.55	17.14	17.07	17.65	18.14
	12H	15.90	16.42	16.41	16.91	17.47	16.54	17.06	17.05	17.55	18.11
12H	4H	15.56	16.27	16.04	16.75	17.22	16.53	17.25	17.01	17.73	18.20
	6H	15.81	16.40	16.32	16.91	17.40	16.55	17.14	17.07	17.65	18.14
	8H	15.88	16.40	16.39	16.89	17.45	16.55	17.07	17.06	17.56	18.13