

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: P1498218

Luminaire Tested: MAE-G-2-120-1STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498218
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-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

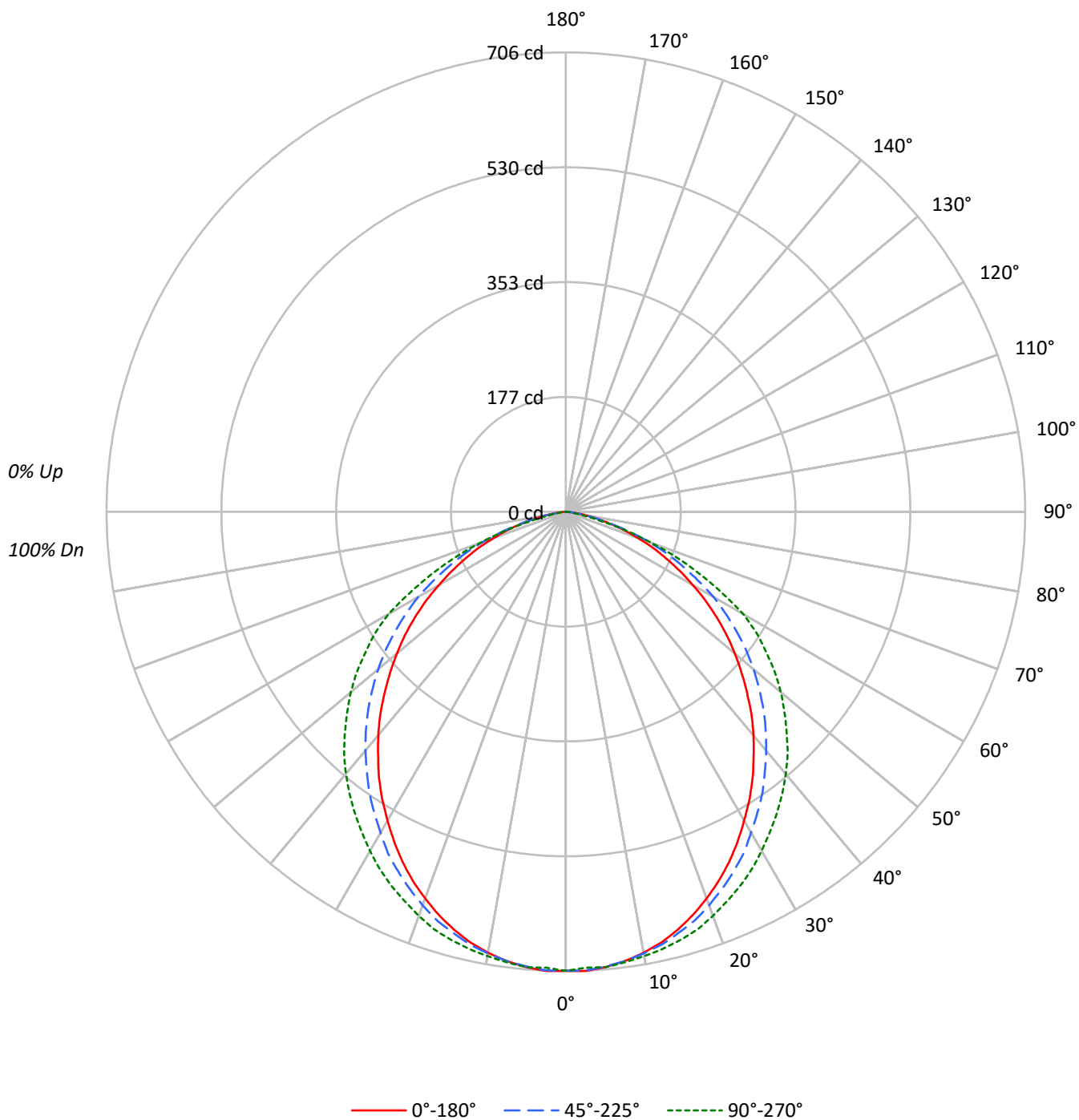
Lumens per Lamp: N/A
Luminaire Lumens: 1776.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	1898	1898	1898
5°	1897	1895	1897
10°	1881	1883	1894
15°	1852	1866	1897
20°	1811	1843	1892
25°	1763	1811	1884
30°	1703	1769	1870
35°	1644	1731	1857
40°	1576	1683	1847
45°	1499	1634	1827
50°	1419	1577	1806
55°	1329	1500	1762
60°	1213	1410	1694
65°	1086	1260	1454
70°	926	1062	1110
75°	717	770	623
80°	473	409	220
85°	250	188	127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1827 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	3.8
10°-20°	189.3	10.7
20°-30°	281.5	15.9
30°-40°	331.0	18.6
40°-50°	334.0	18.8
50°-60°	290.0	16.3
60°-70°	197.4	11.1
70°-80°	76.9	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°	537.4	30.3
0°-40°	868.4	48.9
0°-60°	1492.5	84.0
0°-90°	1776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	705	705	705	705	705	
5°	702	701	701	701	702	67
15°	665	666	670	677	681	187
25°	594	597	610	625	634	273
35°	500	506	527	551	565	312
45°	394	404	429	463	480	304
55°	283	292	320	356	376	253
65°	170	179	198	219	228	169
75°	69	73	74	67	60	75
85°	8	8	6	5	4	12
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.4	705.4	705.4	705.4	705.4
2.5°	706.5	706.5	705.4	702.4	701.4
5°	702.4	701.4	701.4	701.4	702.4
7.5°	696.3	696.3	696.3	697.3	698.3
10°	688.2	688.2	689.2	691.2	693.3
12.5°	678.0	679.0	681.1	685.1	688.2
15°	664.8	665.9	669.9	677.0	681.1
17.5°	649.6	652.7	658.7	666.9	673.0
20°	632.4	635.4	643.5	653.7	660.8
22.5°	614.1	617.1	627.3	639.5	647.6
25°	593.8	596.8	610.0	625.3	634.4
27.5°	571.5	575.5	591.8	608.0	619.2
30°	548.1	553.2	569.4	589.7	601.9
32.5°	524.8	530.9	548.1	571.5	583.6
35°	500.4	506.5	526.8	551.2	565.4
37.5°	474.0	481.1	502.4	531.9	546.1
40°	448.6	455.7	479.1	510.6	525.8
42.5°	422.2	430.4	454.7	487.2	504.5
45°	393.8	404.0	429.4	462.9	480.1
47.5°	366.4	375.6	403.0	437.5	455.7
50°	339.0	349.2	376.6	412.1	431.4
52.5°	311.6	320.7	349.2	384.7	405.0
55°	283.2	292.3	319.7	356.3	375.6
57.5°	254.8	265.9	291.3	326.8	348.2
60°	225.3	235.5	261.9	297.4	314.7
62.5°	197.9	207.1	229.4	262.9	271.0
65°	170.5	178.6	197.9	219.2	228.4
67.5°	145.1	151.2	168.5	182.7	186.8
70°	117.7	123.8	135.0	143.1	141.1
72.5°	93.4	97.4	104.5	103.5	98.5
75°	69.0	73.1	74.1	67.0	59.9
77.5°	48.7	50.8	47.7	37.6	30.5
80°	30.5	31.5	26.4	16.2	14.2
82.5°	17.3	17.3	12.2	10.2	8.1
85°	8.1	8.1	6.1	5.1	4.1
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	12.83	14.41	13.20	14.72	15.04	14.41	15.99	14.78	16.30	16.62
	3H	14.17	15.58	14.54	15.91	16.27	15.68	17.10	16.06	17.42	17.78
	4H	14.53	15.86	14.93	16.21	16.59	15.87	17.20	16.27	17.55	17.93
	6H	14.70	15.93	15.11	16.29	16.68	15.87	17.10	16.28	17.47	17.86
	8H	14.71	15.88	15.14	16.27	16.67	15.85	17.02	16.27	17.41	17.81
	12H	14.71	15.83	15.14	16.21	16.64	15.82	16.94	16.25	17.32	17.75
4H	2H	13.50	14.82	13.89	15.17	15.55	14.79	16.12	15.19	16.46	16.84
	3H	14.99	16.09	15.40	16.49	16.89	16.23	17.33	16.64	17.73	18.13
	4H	15.43	16.42	15.87	16.84	17.28	16.48	17.47	16.91	17.88	18.32
	6H	15.66	16.52	16.12	16.96	17.42	16.51	17.36	16.96	17.81	18.26
	8H	15.69	16.49	16.15	16.93	17.40	16.48	17.28	16.94	17.72	18.19
	12H	15.69	16.40	16.17	16.88	17.35	16.46	17.17	16.94	17.65	18.12
8H	4H	15.59	16.39	16.06	16.84	17.30	16.56	17.36	17.02	17.81	18.27
	6H	15.85	16.51	16.35	17.00	17.48	16.60	17.25	17.09	17.74	18.22
	8H	15.89	16.48	16.41	16.99	17.48	16.57	17.16	17.08	17.67	18.16
	12H	15.92	16.43	16.42	16.93	17.49	16.55	17.07	17.06	17.57	18.13
12H	4H	15.57	16.29	16.06	16.77	17.24	16.55	17.26	17.03	17.74	18.21
	6H	15.82	16.41	16.34	16.92	17.41	16.57	17.16	17.08	17.67	18.16
	8H	15.89	16.41	16.40	16.90	17.47	16.57	17.09	17.08	17.58	18.14