

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: P1498224

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498224
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
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

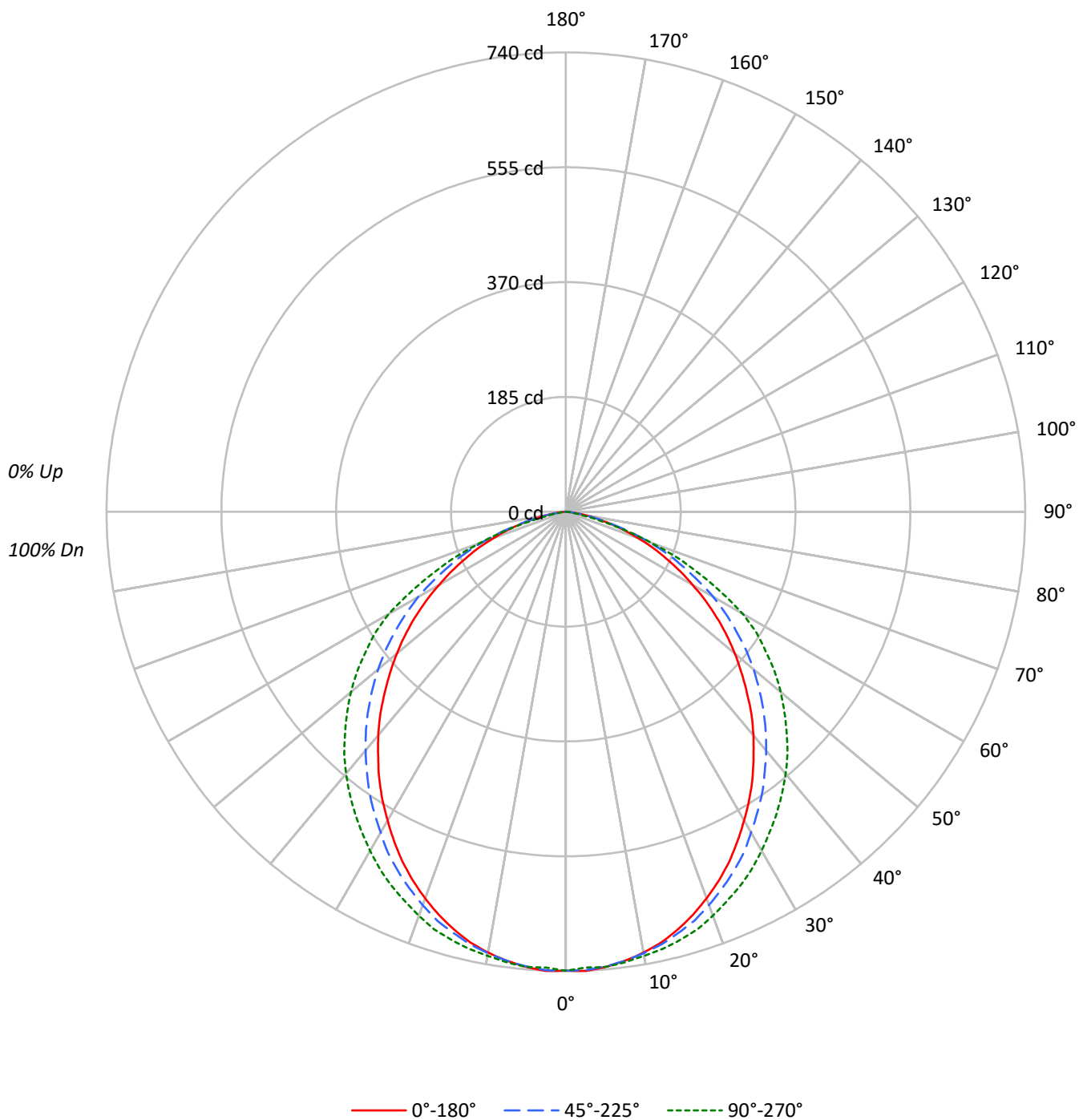
Lumens per Lamp: N/A
Luminaire Lumens: 1861.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1989	1989	1989
5°	1988	1985	1988
10°	1970	1973	1985
15°	1941	1956	1988
20°	1897	1931	1983
25°	1847	1898	1974
30°	1785	1854	1960
35°	1723	1813	1946
40°	1651	1763	1935
45°	1571	1712	1915
50°	1487	1652	1892
55°	1392	1572	1846
60°	1271	1477	1774
65°	1138	1321	1524
70°	971	1113	1163
75°	752	807	653
80°	494	429	231
85°	262	198	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1915 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	3.8
10°-20°	198.4	10.7
20°-30°	295.0	15.9
30°-40°	346.8	18.6
40°-50°	350.0	18.8
50°-60°	303.9	16.3
60°-70°	206.9	11.1
70°-80°	80.6	4.3
80°-90°	9.7	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°	563.2	30.3
0°-40°	910.0	48.9
0°-60°	1563.9	84.0
0°-90°	1861.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1861.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	739	739	739	739	739	
5°	736	735	735	735	736	70
15°	697	698	702	709	714	196
25°	622	625	639	655	665	286
35°	524	531	552	578	592	327
45°	413	423	450	485	503	319
55°	297	306	335	373	394	265
65°	179	187	207	230	239	177
75°	72	77	78	70	63	79
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°	739.2	739.2	739.2	739.2	739.2
2.5°	740.3	740.3	739.2	736.0	734.9
5°	736.0	734.9	734.9	734.9	736.0
7.5°	729.6	729.6	729.6	730.7	731.8
10°	721.1	721.1	722.2	724.3	726.4
12.5°	710.5	711.5	713.7	717.9	721.1
15°	696.7	697.7	702.0	709.4	713.7
17.5°	680.7	683.9	690.3	698.8	705.2
20°	662.6	665.8	674.3	685.0	692.4
22.5°	643.5	646.7	657.3	670.1	678.6
25°	622.2	625.4	639.2	655.2	664.8
27.5°	598.8	603.1	620.1	637.1	648.8
30°	574.3	579.7	596.7	618.0	630.7
32.5°	549.9	556.3	574.3	598.8	611.6
35°	524.4	530.7	552.0	577.5	592.4
37.5°	496.7	504.1	526.5	557.3	572.2
40°	470.1	477.6	502.0	535.0	550.9
42.5°	442.5	451.0	476.5	510.5	528.6
45°	412.7	423.3	449.9	485.0	503.1
47.5°	384.0	393.5	422.2	458.4	477.6
50°	355.2	365.9	394.6	431.8	452.0
52.5°	326.5	336.1	365.9	403.1	424.4
55°	296.7	306.3	335.0	373.3	393.5
57.5°	267.0	278.7	305.3	342.5	364.8
60°	236.1	246.8	274.4	311.6	329.7
62.5°	207.4	217.0	240.4	275.5	284.0
65°	178.7	187.2	207.4	229.7	239.3
67.5°	152.1	158.5	176.6	191.4	195.7
70°	123.4	129.8	141.5	150.0	147.8
72.5°	97.9	102.1	109.6	108.5	103.2
75°	72.3	76.6	77.6	70.2	62.8
77.5°	51.1	53.2	50.0	39.4	31.9
80°	31.9	33.0	27.7	17.0	14.9
82.5°	18.1	18.1	12.8	10.6	8.5
85°	8.5	8.5	6.4	5.3	4.3
87.5°	3.2	3.2	2.1	2.1	2.1
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	12.99	14.57	13.36	14.89	15.20	14.57	16.15	14.94	16.47	16.78
	3H	14.33	15.75	14.71	16.07	16.44	15.84	17.26	16.22	17.59	17.95
	4H	14.70	16.03	15.10	16.38	16.75	16.04	17.37	16.44	17.71	18.09
	6H	14.86	16.09	15.27	16.46	16.85	16.03	17.26	16.45	17.63	18.02
	8H	14.88	16.05	15.30	16.44	16.84	16.01	17.18	16.43	17.57	17.97
	12H	14.87	15.99	15.30	16.37	16.80	15.98	17.10	16.41	17.48	17.91
4H	2H	13.66	14.99	14.06	15.34	15.71	14.95	16.28	15.35	16.63	17.01
	3H	15.16	16.26	15.57	16.66	17.06	16.39	17.49	16.80	17.89	18.29
	4H	15.60	16.59	16.03	17.00	17.44	16.64	17.63	17.07	18.04	18.48
	6H	15.82	16.68	16.28	17.13	17.58	16.67	17.53	17.12	17.97	18.43
	8H	15.85	16.65	16.31	17.09	17.56	16.64	17.44	17.10	17.89	18.35
	12H	15.85	16.57	16.33	17.05	17.52	16.62	17.33	17.10	17.81	18.28
8H	4H	15.76	16.56	16.22	17.00	17.47	16.73	17.53	17.19	17.97	18.44
	6H	16.02	16.68	16.51	17.17	17.64	16.76	17.42	17.25	17.91	18.38
	8H	16.06	16.65	16.57	17.16	17.64	16.73	17.32	17.25	17.83	18.32
	12H	16.08	16.60	16.59	17.09	17.65	16.72	17.24	17.23	17.73	18.29
12H	4H	15.74	16.45	16.22	16.93	17.40	16.71	17.43	17.19	17.90	18.37
	6H	15.99	16.58	16.50	17.09	17.57	16.73	17.32	17.24	17.83	18.32
	8H	16.06	16.58	16.57	17.07	17.63	16.73	17.25	17.24	17.74	18.30