

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: P1498236

Luminaire Tested: MAE-G-2-120-1STD-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498236
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-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

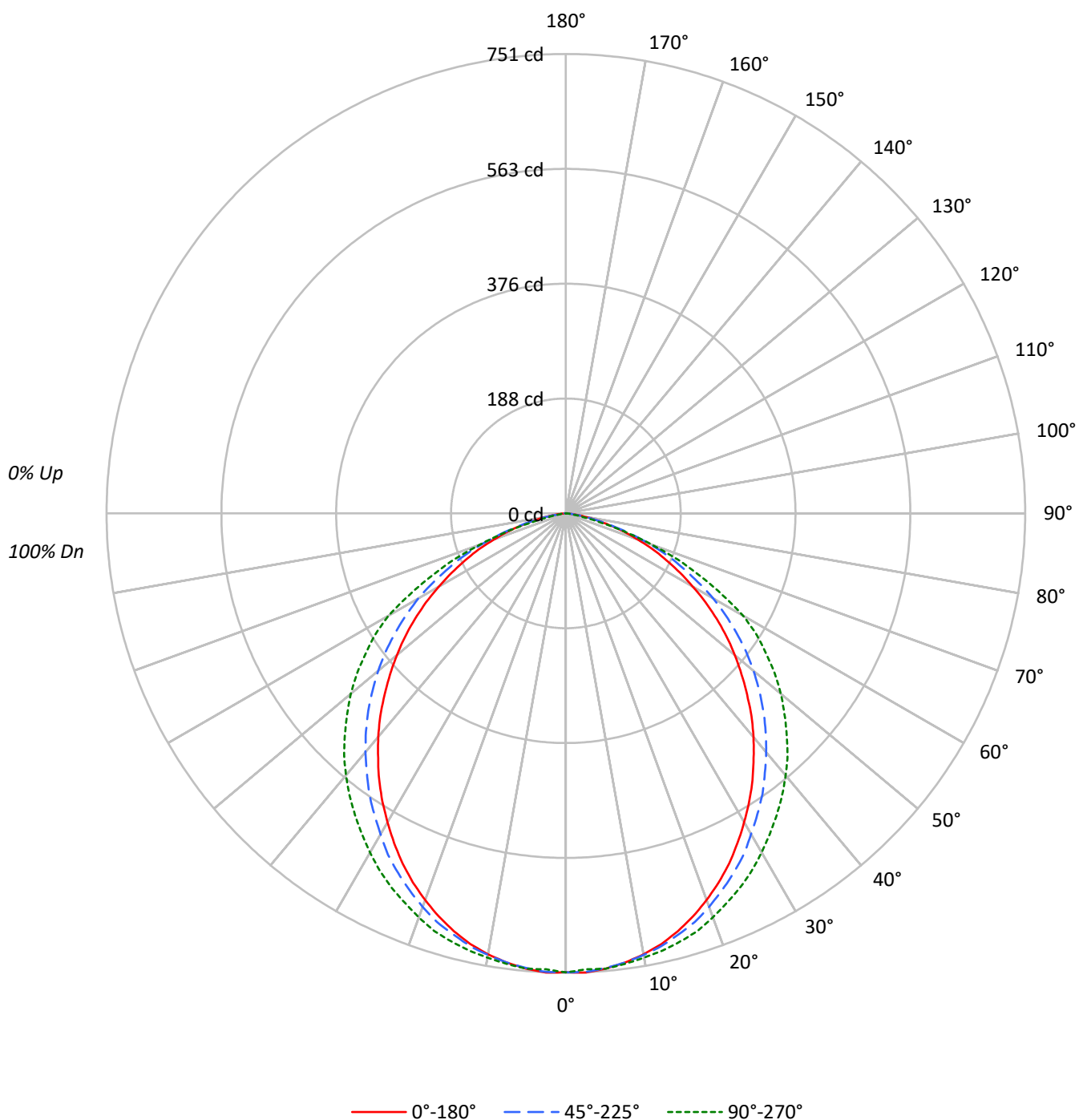
Lumens per Lamp: N/A
Luminaire Lumens: 1889.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	2019	2019	2019
5°	2018	2015	2018
10°	2000	2003	2015
15°	1970	1985	2018
20°	1926	1960	2013
25°	1875	1926	2004
30°	1812	1882	1989
35°	1748	1841	1975
40°	1676	1790	1964
45°	1594	1738	1944
50°	1510	1677	1921
55°	1413	1596	1874
60°	1290	1499	1801
65°	1155	1340	1547
70°	985	1130	1181
75°	763	819	662
80°	502	435	234
85°	266	201	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1944 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.8
10°-20°	201.4	10.7
20°-30°	299.4	15.9
30°-40°	352.0	18.6
40°-50°	355.3	18.8
50°-60°	308.5	16.3
60°-70°	210.0	11.1
70°-80°	81.8	4.3
80°-90°	9.8	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°	571.6	30.3
0°-40°	923.7	48.9
0°-60°	1587.4	84.0
0°-90°	1889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1889.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	750	750	750	750	750	
5°	747	746	746	746	747	71
15°	707	708	712	720	724	199
25°	632	635	649	665	675	290
35°	532	539	560	586	601	332
45°	419	430	457	492	511	323
55°	301	311	340	379	400	269
65°	181	190	210	233	243	180
75°	73	78	79	71	64	80
85°	9	9	6	5	4	13
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	750.3	750.3	750.3	750.3	750.3
2.5°	751.4	751.4	750.3	747.1	746.0
5°	747.1	746.0	746.0	746.0	747.1
7.5°	740.6	740.6	740.6	741.7	742.8
10°	732.0	732.0	733.1	735.2	737.4
12.5°	721.2	722.3	724.4	728.7	732.0
15°	707.1	708.2	712.5	720.1	724.4
17.5°	690.9	694.2	700.7	709.3	715.8
20°	672.6	675.8	684.5	695.3	702.8
22.5°	653.2	656.4	667.2	680.2	688.8
25°	631.6	634.8	648.8	665.0	674.8
27.5°	607.8	612.1	629.4	646.7	658.6
30°	583.0	588.4	605.7	627.3	640.2
32.5°	558.2	564.6	583.0	607.8	620.8
35°	532.2	538.7	560.3	586.2	601.3
37.5°	504.2	511.7	534.4	565.7	580.8
40°	477.2	484.7	509.6	543.0	559.2
42.5°	449.1	457.8	483.7	518.2	536.6
45°	418.9	429.7	456.7	492.3	510.7
47.5°	389.7	399.5	428.6	465.3	484.7
50°	360.6	371.4	400.5	438.3	458.8
52.5°	331.4	341.2	371.4	409.2	430.8
55°	301.2	310.9	340.1	378.9	399.5
57.5°	271.0	282.9	309.8	347.6	370.3
60°	239.7	250.5	278.5	316.3	334.7
62.5°	210.5	220.2	244.0	279.6	288.3
65°	181.4	190.0	210.5	233.2	242.9
67.5°	154.4	160.9	179.2	194.3	198.6
70°	125.2	131.7	143.6	152.2	150.1
72.5°	99.3	103.6	111.2	110.1	104.7
75°	73.4	77.7	78.8	71.3	63.7
77.5°	51.8	54.0	50.7	39.9	32.4
80°	32.4	33.5	28.1	17.3	15.1
82.5°	18.4	18.4	13.0	10.8	8.6
85°	8.6	8.6	6.5	5.4	4.3
87.5°	3.2	3.2	2.2	2.2	2.2
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	13.05	14.63	13.41	14.94	15.25	14.62	16.20	14.99	16.52	16.83
	3H	14.38	15.80	14.76	16.13	16.49	15.89	17.31	16.27	17.64	18.00
	4H	14.75	16.08	15.15	16.43	16.80	16.09	17.42	16.49	17.77	18.14
	6H	14.91	16.14	15.32	16.51	16.90	16.09	17.31	16.50	17.68	18.07
	8H	14.93	16.10	15.35	16.49	16.89	16.06	17.23	16.49	17.62	18.02
	12H	14.92	16.04	15.35	16.42	16.85	16.03	17.15	16.46	17.54	17.96
4H	2H	13.71	15.04	14.11	15.39	15.77	15.00	16.33	15.40	16.68	17.06
	3H	15.21	16.31	15.62	16.71	17.11	16.44	17.54	16.85	17.94	18.34
	4H	15.65	16.64	16.08	17.05	17.49	16.69	17.68	17.12	18.10	18.53
	6H	15.88	16.73	16.33	17.18	17.63	16.72	17.58	17.18	18.02	18.48
	8H	15.90	16.70	16.36	17.14	17.61	16.69	17.49	17.15	17.94	18.40
	12H	15.90	16.62	16.39	17.10	17.57	16.67	17.39	17.15	17.86	18.33
8H	4H	15.81	16.61	16.27	17.05	17.52	16.78	17.58	17.24	18.02	18.49
	6H	16.07	16.73	16.56	17.22	17.69	16.81	17.47	17.31	17.96	18.44
	8H	16.11	16.70	16.62	17.21	17.70	16.78	17.37	17.30	17.88	18.37
	12H	16.13	16.65	16.64	17.14	17.71	16.77	17.29	17.28	17.78	18.34
12H	4H	15.79	16.50	16.27	16.98	17.45	16.76	17.48	17.24	17.95	18.43
	6H	16.04	16.63	16.55	17.14	17.63	16.78	17.37	17.30	17.88	18.37
	8H	16.11	16.63	16.62	17.12	17.68	16.78	17.30	17.29	17.79	18.36