

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: P1498233

Luminaire Tested: MAE-G-2-120-1STD-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498233
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-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

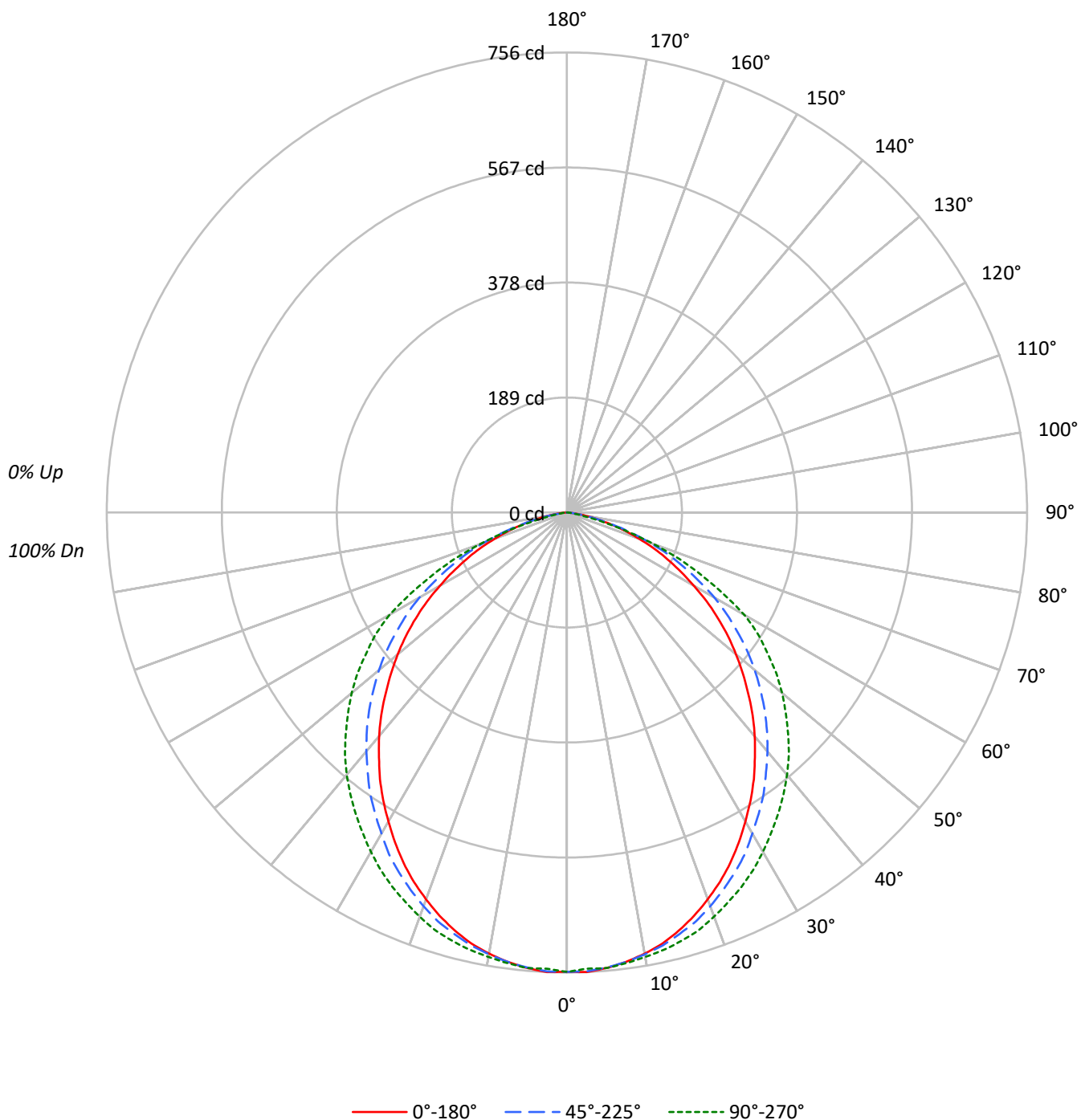
Lumens per Lamp: N/A
Luminaire Lumens: 1900.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2031	2031	2031
5°	2030	2027	2030
10°	2012	2015	2027
15°	1982	1997	2030
20°	1937	1972	2024
25°	1886	1938	2015
30°	1822	1893	2001
35°	1759	1851	1987
40°	1686	1800	1976
45°	1603	1748	1955
50°	1518	1687	1932
55°	1422	1605	1885
60°	1298	1508	1812
65°	1161	1348	1556
70°	991	1136	1187
75°	767	824	666
80°	505	437	236
85°	269	201	133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1955 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	3.8
10°-20°	202.5	10.7
20°-30°	301.2	15.9
30°-40°	354.1	18.6
40°-50°	357.4	18.8
50°-60°	310.3	16.3
60°-70°	211.2	11.1
70°-80°	82.3	4.3
80°-90°	9.9	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°	575.0	30.3
0°-40°	929.0	48.9
0°-60°	1596.7	84.0
0°-90°	1900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	751	750	750	750	751	71
15°	711	712	717	724	729	200
25°	635	638	653	669	679	292
35°	535	542	564	590	605	334
45°	421	432	459	495	514	325
55°	303	313	342	381	402	271
65°	182	191	212	235	244	181
75°	74	78	79	72	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°	754.7	754.7	754.7	754.7	754.7
2.5°	755.8	755.8	754.7	751.4	750.4
5°	751.4	750.4	750.4	750.4	751.4
7.5°	744.9	744.9	744.9	746.0	747.1
10°	736.2	736.2	737.3	739.5	741.7
12.5°	725.4	726.5	728.6	733.0	736.2
15°	711.3	712.3	716.7	724.3	728.6
17.5°	695.0	698.2	704.7	713.4	719.9
20°	676.5	679.8	688.5	699.3	706.9
22.5°	657.0	660.2	671.1	684.1	692.8
25°	635.2	638.5	652.6	668.9	678.7
27.5°	611.4	615.7	633.1	650.4	662.4
30°	586.4	591.8	609.2	630.9	643.9
32.5°	561.4	567.9	586.4	611.4	624.4
35°	535.3	541.9	563.6	589.6	604.8
37.5°	507.1	514.7	537.5	569.0	584.2
40°	480.0	487.6	512.5	546.2	562.5
42.5°	451.7	460.4	486.5	521.2	539.7
45°	421.3	432.2	459.3	495.2	513.6
47.5°	392.0	401.8	431.1	468.0	487.6
50°	362.7	373.5	402.9	440.9	461.5
52.5°	333.4	343.1	373.5	411.6	433.3
55°	303.0	312.7	342.1	381.1	401.8
57.5°	272.6	284.5	311.7	349.7	372.5
60°	241.1	251.9	280.2	318.2	336.6
62.5°	211.7	221.5	245.4	281.2	289.9
65°	182.4	191.1	211.7	234.6	244.3
67.5°	155.3	161.8	180.3	195.5	199.8
70°	126.0	132.5	144.4	153.1	150.9
72.5°	99.9	104.2	111.8	110.8	105.3
75°	73.8	78.2	79.3	71.7	64.1
77.5°	52.1	54.3	51.0	40.2	32.6
80°	32.6	33.7	28.2	17.4	15.2
82.5°	18.5	18.5	13.0	10.9	8.7
85°	8.7	8.7	6.5	5.4	4.3
87.5°	3.3	3.3	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	13.07	14.64	13.43	14.96	15.27	14.65	16.22	15.01	16.54	16.85
	3H	14.40	15.82	14.78	16.15	16.51	15.91	17.33	16.29	17.66	18.02
	4H	14.77	16.10	15.17	16.45	16.82	16.11	17.44	16.51	17.79	18.16
	6H	14.93	16.16	15.34	16.53	16.92	16.11	17.34	16.52	17.70	18.09
	8H	14.95	16.12	15.37	16.51	16.91	16.08	17.25	16.51	17.64	18.04
	12H	14.94	16.06	15.37	16.44	16.87	16.06	17.17	16.49	17.56	17.99
4H	2H	13.73	15.06	14.13	15.41	15.78	15.02	16.35	15.42	16.70	17.08
	3H	15.23	16.33	15.64	16.73	17.13	16.46	17.56	16.87	17.96	18.36
	4H	15.67	16.66	16.10	17.07	17.51	16.71	17.70	17.15	18.12	18.55
	6H	15.90	16.75	16.35	17.20	17.65	16.74	17.60	17.20	18.04	18.50
	8H	15.92	16.72	16.38	17.16	17.63	16.71	17.51	17.18	17.96	18.42
	12H	15.92	16.64	16.41	17.12	17.59	16.69	17.41	17.17	17.88	18.36
8H	4H	15.83	16.63	16.29	17.07	17.54	16.80	17.60	17.26	18.04	18.51
	6H	16.09	16.75	16.58	17.24	17.71	16.83	17.49	17.33	17.98	18.46
	8H	16.13	16.72	16.64	17.23	17.72	16.80	17.39	17.32	17.90	18.39
	12H	16.15	16.67	16.66	17.16	17.73	16.79	17.31	17.30	17.80	18.36
12H	4H	15.81	16.52	16.29	17.00	17.47	16.78	17.50	17.26	17.98	18.45
	6H	16.06	16.65	16.57	17.16	17.65	16.80	17.39	17.32	17.90	18.39
	8H	16.13	16.65	16.64	17.14	17.70	16.80	17.32	17.31	17.81	18.38

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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