

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: P1499115

Luminaire Tested: MAE-G-4-120-1STD-HI-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499115
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-4-120-1STD-HI-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

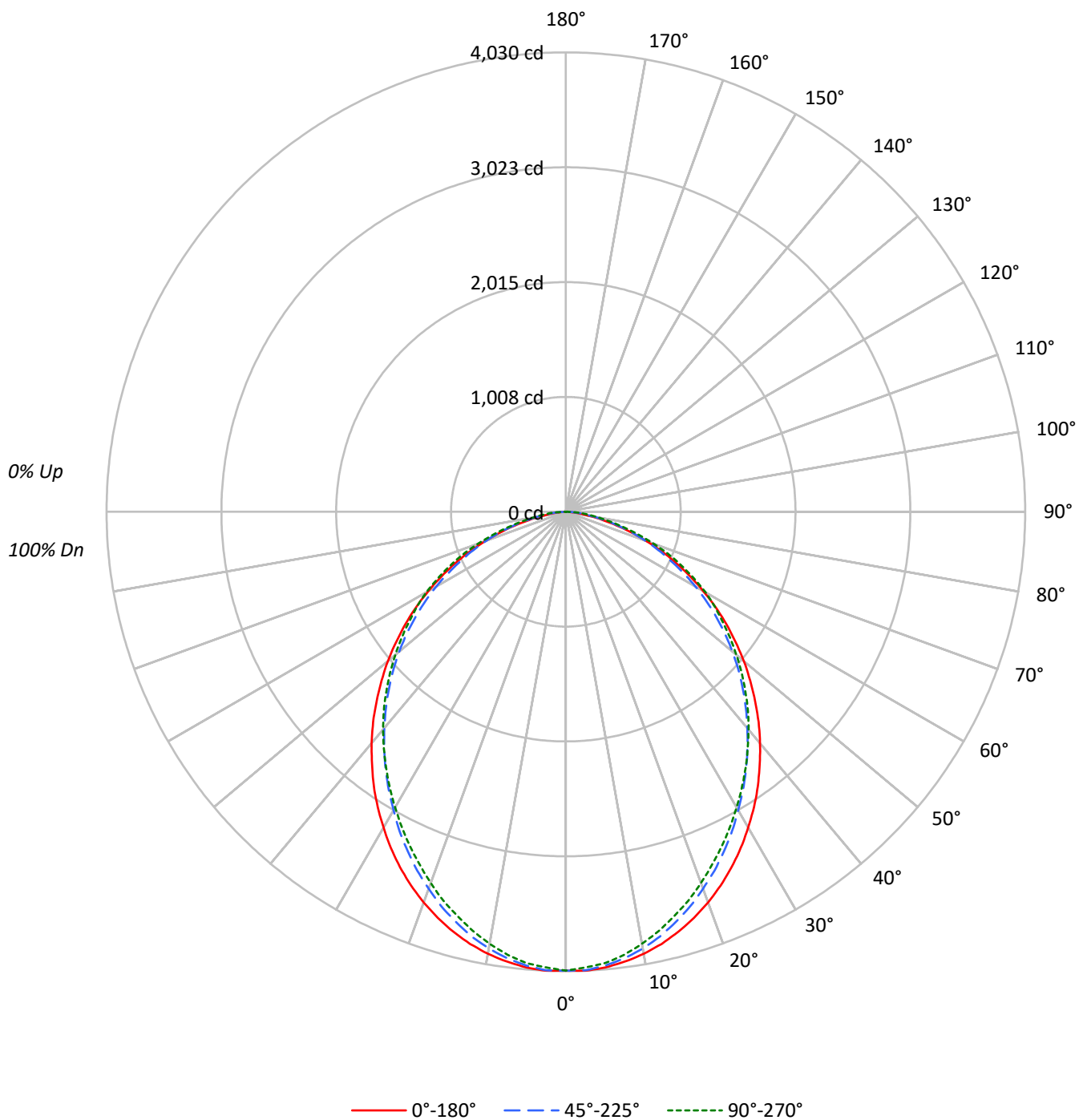
Lumens per Lamp: N/A
Luminaire Lumens: 9590.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 123
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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	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	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5416	5416	5416
5°	5419	5397	5368
10°	5380	5316	5258
15°	5314	5191	5116
20°	5222	5039	4963
25°	5108	4877	4806
30°	4972	4698	4654
35°	4825	4528	4513
40°	4656	4351	4381
45°	4468	4177	4237
50°	4267	3993	4087
55°	4034	3780	3934
60°	3748	3536	3806
65°	3415	3228	3568
70°	2967	2919	3225
75°	2374	2517	2719
80°	1648	1989	2224
85°	925	1547	2041

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4468 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.7	3.9
10°-20°	1051.0	11.0
20°-30°	1523.6	15.9
30°-40°	1750.0	18.2
40°-50°	1729.0	18.0
50°-60°	1478.4	15.4
60°-70°	1046.2	10.9
70°-80°	517.6	5.4
80°-90°	116.4	1.2
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°	2952.3	30.8
0°-40°	4702.4	49.0
0°-60°	7909.8	82.5
0°-90°	9590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4025	4025	4025	4025	4025	
5°	4012	4009	3996	3965	3974	381
15°	3815	3791	3727	3669	3673	1075
25°	3441	3385	3285	3232	3237	1584
35°	2938	2860	2757	2734	2748	1835
45°	2348	2275	2195	2208	2227	1811
55°	1720	1652	1611	1646	1677	1535
65°	1073	1019	1014	1088	1121	1061
75°	457	434	484	519	523	493
85°	60	74	100	123	132	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4025.4	4025.4	4025.4	4025.4	4025.4
2.5°	4029.9	4033.6	4025.4	3994.2	4000.3
5°	4011.9	4008.6	3995.6	3964.9	3974.2
7.5°	3980.0	3974.1	3950.6	3913.8	3919.7
10°	3937.8	3925.9	3890.6	3844.3	3848.6
12.5°	3883.0	3866.5	3816.5	3763.1	3767.2
15°	3814.6	3791.0	3726.6	3669.1	3673.0
17.5°	3736.1	3708.3	3629.8	3567.2	3576.7
20°	3647.2	3610.0	3519.4	3458.7	3466.0
22.5°	3548.9	3502.6	3406.7	3347.1	3351.5
25°	3440.7	3384.9	3285.1	3231.7	3237.4
27.5°	3324.3	3262.6	3158.7	3108.8	3118.8
30°	3200.0	3133.1	3023.6	2984.7	2995.6
32.5°	3072.0	3000.6	2891.8	2861.9	2872.8
35°	2937.5	2859.8	2756.6	2733.6	2747.7
37.5°	2793.6	2718.4	2615.8	2608.6	2621.5
40°	2650.9	2573.1	2477.4	2478.0	2494.3
42.5°	2502.4	2426.7	2337.9	2344.3	2363.7
45°	2348.2	2274.8	2195.2	2208.5	2226.6
47.5°	2192.7	2120.6	2052.6	2070.4	2093.0
50°	2038.6	1968.6	1907.5	1932.1	1952.5
52.5°	1876.2	1809.8	1761.6	1788.6	1817.0
55°	1719.7	1652.2	1611.2	1646.1	1677.2
57.5°	1557.3	1500.3	1464.0	1508.7	1548.8
60°	1392.9	1337.0	1313.9	1374.9	1414.4
62.5°	1231.5	1177.1	1161.6	1237.0	1267.5
65°	1072.7	1019.4	1013.8	1088.1	1120.7
67.5°	914.6	866.4	878.8	953.1	975.8
70°	754.3	711.0	742.0	806.6	819.9
72.5°	603.1	567.1	613.1	661.6	667.1
75°	456.6	433.6	484.1	519.4	523.0
77.5°	327.1	315.1	363.7	390.3	395.0
80°	212.7	217.2	256.7	278.6	287.0
82.5°	124.2	135.9	167.4	197.1	205.8
85°	59.9	73.9	100.2	122.7	132.2
87.5°	20.5	29.9	42.1	46.8	45.5
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	16.68	18.27	17.05	18.58	18.90	16.72	18.30	17.08	18.62	18.93
	3H	18.14	19.57	18.52	19.90	20.26	18.40	19.83	18.78	20.16	20.52
	4H	18.58	19.92	18.98	20.26	20.64	18.94	20.28	19.34	20.63	21.01
	6H	18.80	20.04	19.21	20.41	20.80	19.28	20.52	19.69	20.88	21.27
	8H	18.84	20.02	19.26	20.41	20.81	19.38	20.56	19.81	20.95	21.35
	12H	18.84	19.97	19.27	20.36	20.79	19.45	20.59	19.88	20.97	21.40
4H	2H	17.19	18.53	17.59	18.87	19.25	17.22	18.55	17.61	18.90	19.28
	3H	18.83	19.95	19.24	20.35	20.75	19.11	20.22	19.52	20.62	21.02
	4H	19.35	20.36	19.78	20.77	21.21	19.76	20.77	20.20	21.18	21.62
	6H	19.66	20.54	20.12	20.98	21.44	20.21	21.08	20.66	21.52	21.98
	8H	19.72	20.54	20.18	20.98	21.45	20.35	21.17	20.81	21.61	22.08
	12H	19.74	20.48	20.22	20.95	21.42	20.46	21.20	20.94	21.67	22.14
8H	4H	19.58	20.40	20.05	20.85	21.31	19.95	20.77	20.42	21.22	21.68
	6H	19.96	20.64	20.46	21.13	21.60	20.49	21.16	20.98	21.65	22.13
	8H	20.05	20.66	20.56	21.17	21.65	20.69	21.29	21.20	21.80	22.29
	12H	20.11	20.64	20.62	21.14	21.70	20.87	21.40	21.37	21.89	22.46
12H	4H	19.60	20.33	20.08	20.81	21.28	19.95	20.69	20.44	21.16	21.63
	6H	19.99	20.59	20.50	21.10	21.59	20.49	21.10	21.01	21.61	22.10
	8H	20.12	20.66	20.63	21.15	21.71	20.74	21.28	21.25	21.77	22.33