

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: P1498968

Luminaire Tested: MAE-G-4-120-1HI-STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498968
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-4-120-1HI-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

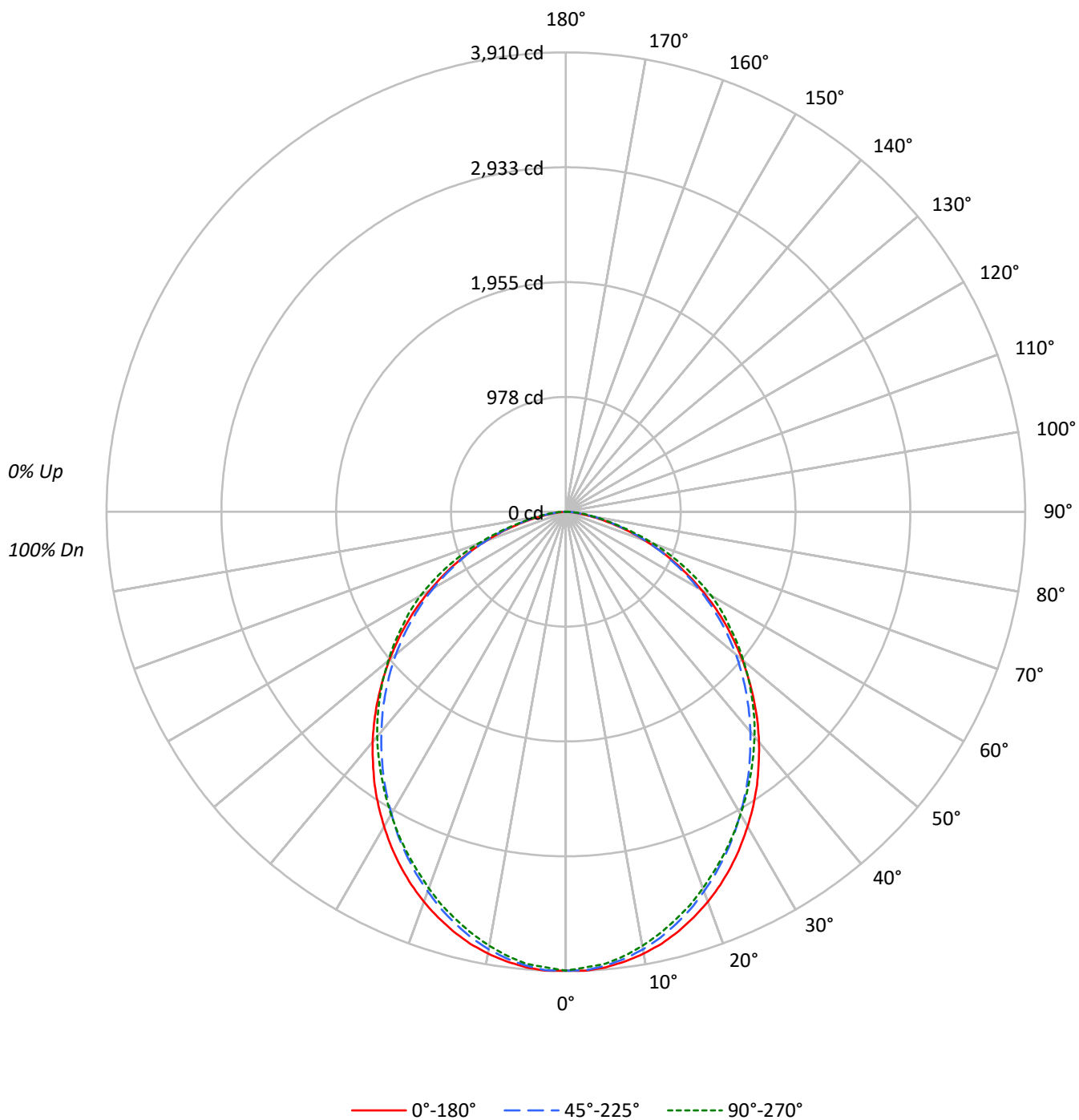
Lumens per Lamp: N/A
Luminaire Lumens: 9389.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.8
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5255	5255	5255
5°	5257	5237	5215
10°	5218	5166	5125
15°	5151	5057	5010
20°	5058	4923	4883
25°	4944	4777	4751
30°	4806	4612	4621
35°	4660	4457	4501
40°	4493	4292	4389
45°	4305	4128	4262
50°	4106	3952	4131
55°	3876	3745	3987
60°	3592	3506	3852
65°	3264	3189	3552
70°	2829	2849	3120
75°	2253	2393	2492
80°	1552	1802	1910
85°	865	1345	1720

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4305 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	3.9
10°-20°	1024.3	10.9
20°-30°	1491.1	15.9
30°-40°	1719.4	18.3
40°-50°	1705.0	18.2
50°-60°	1461.8	15.6
60°-70°	1027.5	10.9
70°-80°	490.0	5.2
80°-90°	103.0	1.1
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°	2882.2	30.7
0°-40°	4601.7	49.0
0°-60°	7768.5	82.7
0°-90°	9389.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9389.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3906	3906	3906	3906	3906	
5°	3892	3888	3878	3853	3861	369
15°	3698	3680	3631	3590	3597	1042
25°	3330	3287	3218	3188	3200	1533
35°	2837	2779	2713	2716	2740	1773
45°	2263	2212	2169	2210	2240	1745
55°	1652	1605	1596	1657	1700	1475
65°	1025	989	1002	1081	1116	1015
75°	433	418	460	483	479	468
85°	56	67	87	104	111	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3905.6	3905.6	3905.6	3905.6	3905.6
2.5°	3910.2	3913.2	3905.6	3877.5	3881.5
5°	3891.9	3888.3	3877.7	3852.7	3861.1
7.5°	3860.5	3855.6	3836.6	3807.5	3813.1
10°	3819.0	3809.2	3781.4	3745.4	3750.8
12.5°	3765.2	3752.7	3713.8	3673.8	3679.9
15°	3697.8	3679.5	3630.7	3590.0	3596.8
17.5°	3620.4	3600.4	3541.8	3498.0	3511.0
20°	3532.6	3505.1	3438.3	3397.9	3410.1
22.5°	3436.3	3401.4	3332.0	3294.3	3305.1
25°	3330.2	3287.4	3217.6	3187.7	3200.3
27.5°	3215.6	3168.8	3098.4	3072.2	3090.2
30°	3093.6	3043.6	2968.5	2954.9	2974.5
32.5°	2968.6	2915.8	2842.4	2838.7	2858.3
35°	2837.3	2779.4	2713.3	2716.0	2740.1
37.5°	2696.7	2641.7	2576.9	2597.1	2620.1
40°	2557.9	2500.7	2443.4	2471.7	2498.6
42.5°	2413.5	2359.0	2308.2	2342.1	2373.3
45°	2262.6	2211.8	2169.4	2209.9	2239.9
47.5°	2111.7	2061.0	2029.8	2074.8	2109.4
50°	1961.8	1913.8	1888.1	1939.7	1973.4
52.5°	1805.1	1759.1	1745.0	1798.5	1839.6
55°	1652.3	1605.4	1596.3	1657.1	1699.5
57.5°	1495.0	1458.2	1451.3	1519.1	1570.6
60°	1334.8	1298.2	1302.8	1384.0	1431.4
62.5°	1179.0	1142.7	1149.9	1241.0	1273.0
65°	1025.3	989.1	1001.6	1081.0	1115.7
67.5°	874.0	840.1	865.5	938.6	960.7
70°	719.1	689.2	724.3	784.1	793.2
72.5°	574.2	548.5	592.3	630.9	630.9
75°	433.3	418.1	460.3	482.6	479.4
77.5°	309.7	301.8	338.6	351.3	348.9
80°	200.3	204.9	232.6	241.4	246.5
82.5°	116.5	126.0	147.2	169.7	174.9
85°	56.0	67.4	87.1	104.5	111.4
87.5°	19.4	27.1	36.1	40.0	38.9
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	16.54	18.13	16.91	18.44	18.76	16.85	18.43	17.22	18.75	19.06
	3H	17.98	19.41	18.36	19.73	20.10	18.45	19.88	18.83	20.21	20.57
	4H	18.41	19.74	18.81	20.09	20.47	18.92	20.26	19.32	20.61	20.98
	6H	18.62	19.86	19.03	20.22	20.62	19.18	20.42	19.59	20.78	21.17
	8H	18.65	19.83	19.08	20.22	20.62	19.25	20.43	19.68	20.82	21.22
	12H	18.66	19.79	19.09	20.17	20.60	19.30	20.43	19.73	20.81	21.24
4H	2H	17.07	18.41	17.47	18.76	19.14	17.32	18.66	17.72	19.01	19.39
	3H	18.70	19.81	19.11	20.21	20.61	19.13	20.24	19.54	20.64	21.04
	4H	19.20	20.21	19.63	20.62	21.06	19.70	20.71	20.14	21.12	21.56
	6H	19.50	20.37	19.95	20.81	21.27	20.06	20.93	20.51	21.37	21.83
	8H	19.55	20.36	20.01	20.81	21.27	20.16	20.98	20.62	21.42	21.88
	12H	19.57	20.30	20.05	20.78	21.25	20.24	20.97	20.72	21.45	21.92
8H	4H	19.42	20.24	19.88	20.68	21.15	19.87	20.69	20.34	21.13	21.60
	6H	19.78	20.45	20.27	20.94	21.42	20.30	20.97	20.80	21.46	21.94
	8H	19.86	20.47	20.37	20.97	21.46	20.45	21.06	20.96	21.56	22.05
	12H	19.91	20.44	20.42	20.94	21.50	20.59	21.12	21.10	21.61	22.18
12H	4H	19.43	20.16	19.91	20.64	21.11	19.87	20.60	20.35	21.08	21.55
	6H	19.79	20.40	20.31	20.91	21.39	20.30	20.91	20.81	21.42	21.90
	8H	19.92	20.45	20.42	20.94	21.50	20.50	21.03	21.00	21.52	22.08