

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: P1498956

Luminaire Tested: MAE-G-4-120-1HI-LO-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498956
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-LO-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

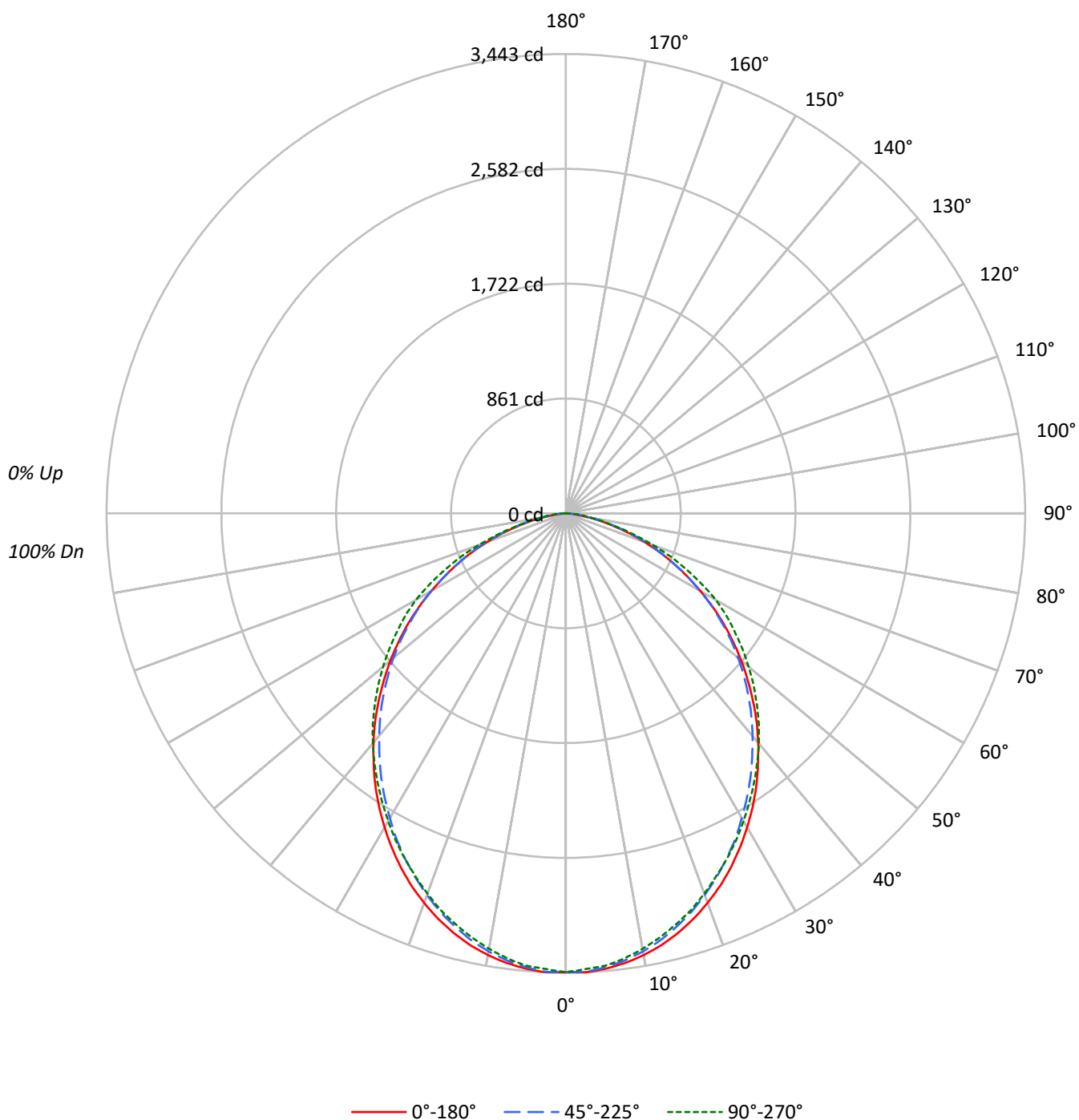
Lumens per Lamp: N/A
Luminaire Lumens: 8322.0 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	81	98	91	85	80	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	67	61	56	64	59	55	53		
5	78	65	56	50	76	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	28	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4627	4627	4627
5°	4628	4613	4597
10°	4593	4555	4527
15°	4533	4467	4441
20°	4448	4357	4343
25°	4346	4235	4240
30°	4221	4096	4137
35°	4090	3965	4042
40°	3940	3824	3953
45°	3772	3683	3851
50°	3594	3531	3744
55°	3389	3347	3620
60°	3134	3136	3494
65°	2843	2845	3186
70°	2459	2520	2742
75°	1951	2075	2100
80°	1337	1506	1523
85°	739	1082	1346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3851 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.2	3.9
10°-20°	904.9	10.9
20°-30°	1321.3	15.9
30°-40°	1527.9	18.4
40°-50°	1519.1	18.3
50°-60°	1304.9	15.7
60°-70°	912.8	11.0
70°-80°	423.6	5.1
80°-90°	84.3	1.0
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°	2549.4	30.6
0°-40°	4077.3	49.0
0°-60°	6901.3	82.9
0°-90°	8322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3439	3439	3439	3439	3439	
5°	3427	3423	3415	3396	3403	325
15°	3254	3241	3207	3181	3188	917
25°	2927	2897	2853	2840	2856	1347
35°	2490	2451	2414	2433	2461	1556
45°	1982	1951	1936	1989	2024	1529
55°	1445	1415	1427	1498	1543	1290
65°	893	871	894	968	1001	884
75°	375	366	399	411	404	406
85°	48	57	70	83	87	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3439.1	3439.1	3439.1	3439.1	3439.1
2.5°	3443.3	3445.5	3439.1	3415.8	3418.1
5°	3426.7	3423.3	3415.2	3396.3	3403.4
7.5°	3398.8	3395.1	3380.7	3359.3	3364.2
10°	3361.8	3354.4	3333.9	3308.1	3313.5
12.5°	3314.2	3305.3	3277.2	3249.7	3256.3
15°	3254.1	3240.9	3206.6	3180.6	3188.5
17.5°	3185.0	3172.0	3131.7	3104.0	3118.0
20°	3106.8	3088.0	3042.9	3019.2	3033.2
22.5°	3021.5	2996.9	2951.4	2930.9	2944.7
25°	2927.2	2896.9	2852.9	2840.5	2856.3
27.5°	2825.2	2792.5	2750.2	2741.3	2762.5
30°	2716.9	2682.4	2636.6	2639.9	2663.1
32.5°	2606.3	2570.4	2526.4	2539.4	2562.6
35°	2490.3	2450.6	2414.1	2432.8	2460.6
37.5°	2365.8	2328.9	2294.2	2329.5	2356.7
40°	2243.3	2204.9	2177.3	2220.0	2250.7
42.5°	2116.0	2080.2	2058.1	2105.9	2141.2
45°	1982.3	1950.7	1935.7	1989.1	2023.6
47.5°	1849.4	1817.0	1812.0	1869.5	1908.3
50°	1717.1	1687.5	1686.7	1749.9	1788.5
52.5°	1579.8	1551.0	1559.6	1624.3	1669.1
55°	1444.7	1415.3	1427.0	1497.9	1543.1
57.5°	1306.1	1285.9	1297.7	1373.2	1426.7
60°	1164.7	1143.8	1165.2	1250.8	1298.5
62.5°	1028.0	1006.7	1027.3	1119.1	1148.8
65°	893.0	871.0	893.5	968.1	1000.6
67.5°	761.0	739.4	770.3	835.4	854.9
70°	625.0	606.4	640.6	691.5	696.9
72.5°	498.7	481.9	519.9	548.5	545.1
75°	375.2	366.5	399.1	411.3	404.0
77.5°	267.9	263.2	289.1	291.8	285.1
80°	172.5	176.7	194.3	194.1	196.5
82.5°	100.0	107.3	119.9	135.5	138.0
85°	47.9	56.6	70.1	82.7	87.2
87.5°	16.9	22.7	28.7	31.6	30.8
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	16.08	17.66	16.44	17.97	18.29	16.58	18.16	16.94	18.47	18.79
	3H	17.50	18.93	17.88	19.25	19.61	18.12	19.55	18.50	19.87	20.23
	4H	17.92	19.25	18.32	19.60	19.98	18.54	19.88	18.94	20.23	20.61
	6H	18.13	19.36	18.54	19.73	20.12	18.75	19.99	19.16	20.35	20.74
	8H	18.16	19.33	18.58	19.72	20.12	18.80	19.98	19.23	20.37	20.77
	12H	18.16	19.29	18.59	19.67	20.10	18.83	19.96	19.26	20.34	20.77
4H	2H	16.62	17.96	17.02	18.31	18.69	17.03	18.37	17.43	18.72	19.09
	3H	18.23	19.34	18.64	19.74	20.14	18.78	19.89	19.19	20.29	20.69
	4H	18.73	19.73	19.16	20.14	20.58	19.30	20.30	19.73	20.71	21.15
	6H	19.01	19.88	19.47	20.32	20.78	19.59	20.46	20.05	20.90	21.36
	8H	19.06	19.87	19.52	20.32	20.78	19.67	20.48	20.13	20.92	21.39
	12H	19.08	19.81	19.56	20.28	20.75	19.73	20.46	20.21	20.93	21.40
8H	4H	18.94	19.75	19.40	20.19	20.66	19.46	20.27	19.92	20.71	21.18
	6H	19.28	19.95	19.78	20.44	20.92	19.81	20.48	20.31	20.97	21.45
	8H	19.36	19.96	19.87	20.47	20.96	19.93	20.53	20.44	21.04	21.52
	12H	19.40	19.93	19.91	20.43	20.99	20.03	20.57	20.54	21.06	21.62
12H	4H	18.94	19.67	19.42	20.15	20.62	19.45	20.18	19.93	20.66	21.13
	6H	19.29	19.89	19.80	20.40	20.89	19.81	20.41	20.32	20.92	21.41
	8H	19.40	19.93	19.91	20.43	20.99	19.96	20.49	20.47	20.99	21.55