

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: P1499184

Luminaire Tested: MAE-G-4-120-2HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

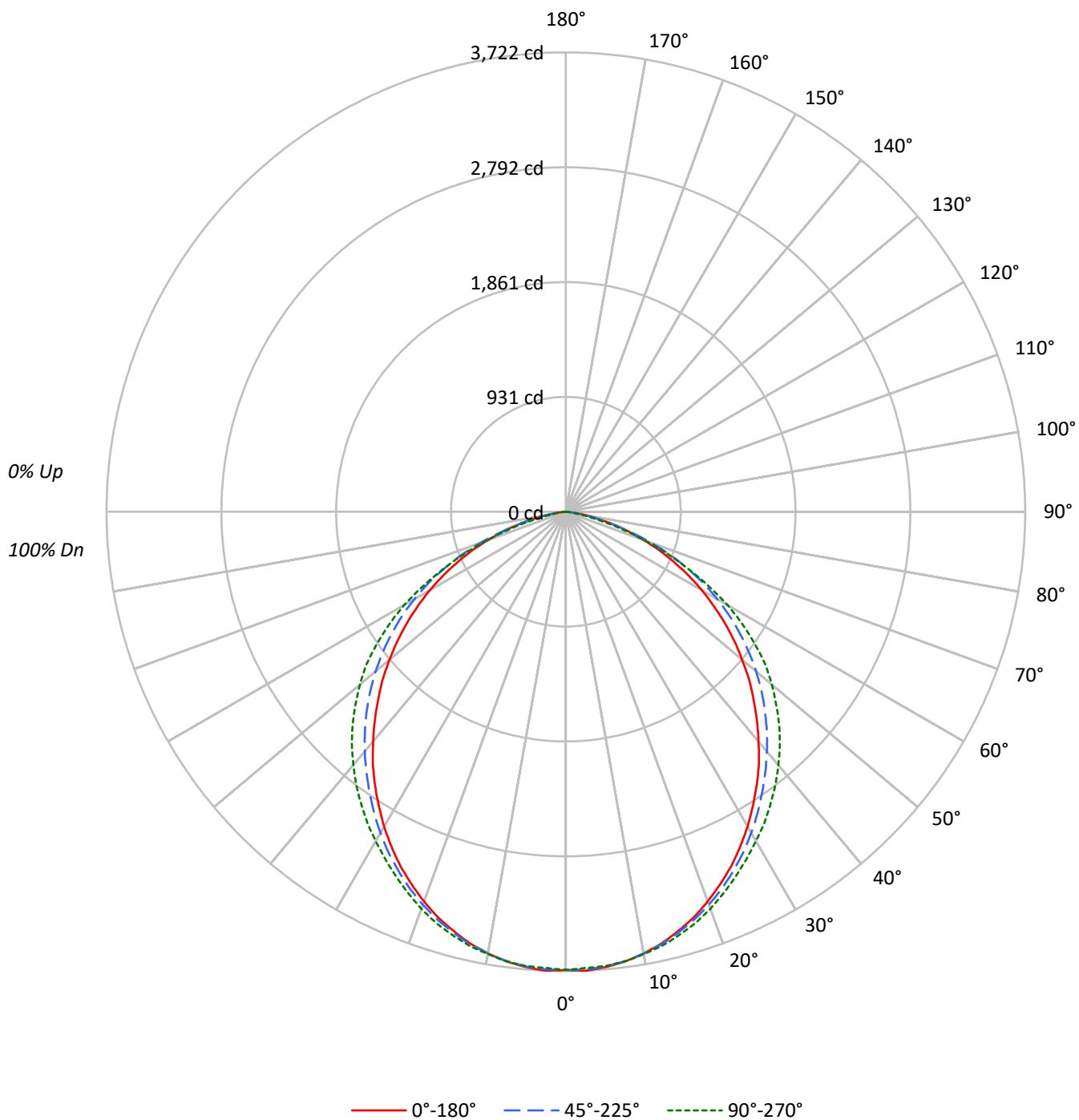
Lumens per Lamp: N/A
Luminaire Lumens: 9370.0 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88.6
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	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53		
5	78	65	57	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	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4994	4994	4994
5°	5003	4995	4990
10°	4965	4965	4972
15°	4898	4916	4946
20°	4811	4851	4902
25°	4704	4766	4837
30°	4575	4669	4786
35°	4430	4555	4749
40°	4266	4452	4704
45°	4092	4341	4653
50°	3902	4211	4559
55°	3687	4042	4388
60°	3426	3816	4074
65°	3090	3467	3487
70°	2638	2886	2697
75°	2071	2090	1684
80°	1347	1075	645
85°	624	409	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4653 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.6	3.7
10°-20°	994.4	10.6
20°-30°	1477.2	15.8
30°-40°	1739.9	18.6
40°-50°	1762.7	18.8
50°-60°	1534.2	16.4
60°-70°	1045.4	11.2
70°-80°	417.9	4.5
80°-90°	47.8	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°	2822.1	30.1
0°-40°	4561.9	48.7
0°-60°	7858.8	83.9
0°-90°	9370.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9370.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3712	3712	3712	3712	3712	
5°	3704	3683	3698	3693	3694	351
15°	3517	3502	3529	3542	3551	991
25°	3169	3170	3210	3237	3258	1458
35°	2697	2710	2773	2846	2892	1686
45°	2150	2177	2281	2389	2445	1660
55°	1572	1606	1723	1831	1870	1404
65°	971	1016	1089	1090	1095	962
75°	398	422	402	346	324	429
85°	40	36	26	24	22	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3711.9	3711.9	3711.9	3711.9	3711.9
2.5°	3722.2	3698.3	3711.9	3709.4	3699.4
5°	3704.4	3682.9	3698.3	3693.3	3694.4
7.5°	3675.4	3655.4	3671.8	3670.4	3674.3
10°	3633.9	3613.9	3633.9	3635.0	3638.9
12.5°	3582.1	3564.5	3588.5	3593.5	3602.4
15°	3516.6	3501.6	3529.2	3542.0	3550.6
17.5°	3446.1	3436.1	3463.7	3480.1	3494.1
20°	3360.3	3355.3	3388.2	3404.4	3423.3
22.5°	3267.0	3264.5	3303.8	3323.8	3342.8
25°	3168.7	3170.1	3210.5	3236.9	3258.4
27.5°	3060.3	3062.8	3112.1	3143.6	3170.1
30°	2944.4	2950.8	3004.9	3047.8	3080.6
32.5°	2822.1	2833.5	2891.5	2950.8	2992.3
35°	2697.3	2710.1	2773.1	2846.1	2891.5
37.5°	2568.9	2582.8	2655.8	2741.6	2789.5
40°	2429.0	2450.2	2534.9	2629.3	2678.4
42.5°	2291.4	2315.4	2410.1	2513.4	2566.4
45°	2150.4	2176.9	2281.4	2388.6	2445.2
47.5°	2014.2	2036.8	2149.0	2261.3	2311.7
50°	1864.3	1894.4	2011.7	2124.0	2178.0
52.5°	1720.6	1749.5	1869.3	1983.8	2039.5
55°	1571.8	1605.8	1723.1	1831.4	1870.4
57.5°	1421.9	1460.9	1574.3	1663.7	1697.7
60°	1273.2	1312.2	1418.0	1488.5	1513.9
62.5°	1123.0	1163.4	1256.7	1299.6	1304.6
65°	970.6	1016.0	1089.0	1090.4	1095.4
67.5°	825.7	863.3	916.3	901.2	893.7
70°	670.6	712.1	733.5	703.4	685.6
72.5°	533.2	563.3	559.7	515.4	494.2
75°	398.4	422.3	402.0	345.5	324.0
77.5°	276.1	296.1	255.7	202.8	181.6
80°	173.8	182.8	138.7	98.3	83.3
82.5°	93.3	91.9	59.3	49.0	45.4
85°	40.4	36.5	26.5	24.0	21.5
87.5°	13.9	12.5	10.0	8.9	7.5
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	16.50	18.09	16.87	18.40	18.71	17.46	19.05	17.83	19.36	19.67
	3H	17.92	19.34	18.30	19.67	20.03	18.65	20.07	19.03	20.40	20.76
	4H	18.32	19.65	18.72	20.00	20.38	18.87	20.20	19.27	20.55	20.93
	6H	18.49	19.72	18.90	20.09	20.48	18.89	20.12	19.30	20.48	20.88
	8H	18.51	19.68	18.93	20.07	20.47	18.86	20.04	19.29	20.43	20.83
	12H	18.50	19.62	18.93	20.00	20.43	18.84	19.96	19.27	20.34	20.77
4H	2H	17.17	18.50	17.56	18.85	19.22	17.94	19.27	18.34	19.62	20.00
	3H	18.74	19.85	19.15	20.25	20.65	19.29	20.39	19.70	20.79	21.19
	4H	19.22	20.21	19.65	20.62	21.06	19.56	20.55	19.99	20.96	21.40
	6H	19.46	20.32	19.91	20.76	21.22	19.61	20.47	20.06	20.91	21.37
	8H	19.48	20.28	19.94	20.73	21.19	19.58	20.39	20.05	20.83	21.30
	12H	19.48	20.20	19.96	20.67	21.15	19.56	20.28	20.04	20.76	21.23
8H	4H	19.35	20.16	19.82	20.60	21.07	19.67	20.47	20.13	20.92	21.38
	6H	19.63	20.29	20.13	20.78	21.26	19.73	20.39	20.23	20.88	21.36
	8H	19.67	20.26	20.18	20.77	21.26	19.71	20.30	20.22	20.81	21.29
	12H	19.68	20.20	20.19	20.69	21.26	19.69	20.21	20.20	20.70	21.27
12H	4H	19.34	20.05	19.82	20.53	21.00	19.66	20.38	20.14	20.85	21.33
	6H	19.60	20.19	20.11	20.70	21.19	19.71	20.30	20.22	20.81	21.30
	8H	19.66	20.18	20.17	20.68	21.24	19.71	20.23	20.22	20.72	21.28