

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: P1498608

Luminaire Tested: MAE-G-2-120-3HI-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498608
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

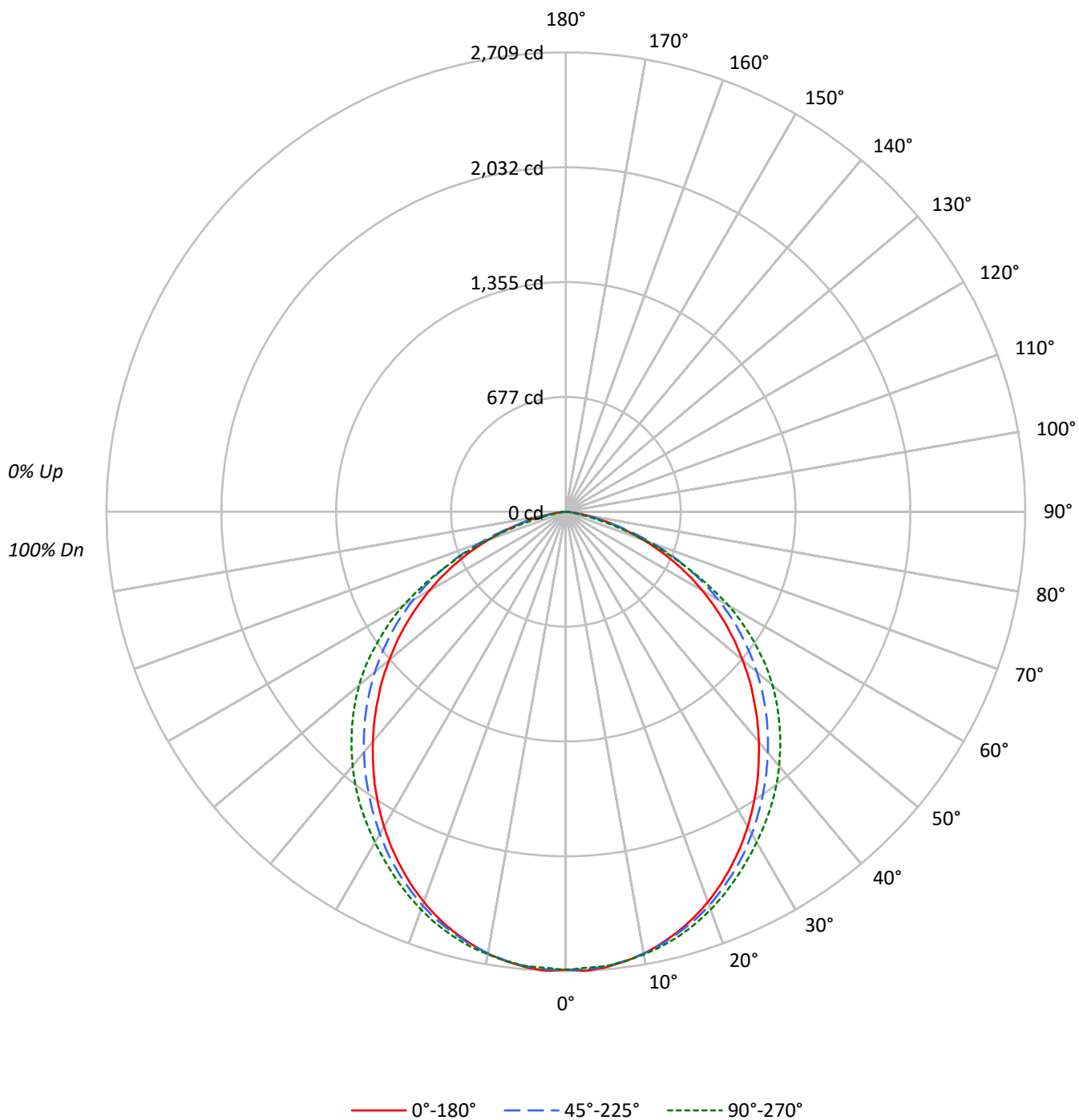
Lumens per Lamp: N/A
Luminaire Lumens: 6845.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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	102	98	107	103	100	96	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	57	69	62	57	67	61	56	65	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	44	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	36	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°	7268	7268	7268
5°	7283	7268	7265
10°	7230	7226	7243
15°	7137	7160	7212
20°	7013	7078	7151
25°	6850	6960	7069
30°	6665	6816	6995
35°	6456	6661	6941
40°	6221	6510	6872
45°	5967	6350	6785
50°	5691	6154	6664
55°	5385	5915	6407
60°	4998	5589	5979
65°	4513	5097	5121
70°	3851	4279	3980
75°	3025	3122	2449
80°	1974	1607	947
85°	945	636	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6785 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	3.7
10°-20°	724.3	10.6
20°-30°	1077.2	15.7
30°-40°	1269.3	18.5
40°-50°	1286.9	18.8
50°-60°	1121.4	16.4
60°-70°	766.9	11.2
70°-80°	308.1	4.5
80°-90°	35.7	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°	2056.5	30.0
0°-40°	3325.9	48.6
0°-60°	5734.2	83.8
0°-90°	6845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2701	2701	2701	2701	2701	
5°	2696	2680	2691	2688	2689	256
15°	2562	2551	2570	2581	2589	722
25°	2307	2308	2344	2361	2381	1062
35°	1965	1974	2028	2077	2113	1228
45°	1568	1589	1668	1743	1783	1210
55°	1148	1172	1261	1340	1366	1025
65°	709	741	800	807	804	701
75°	291	310	300	258	236	313
85°	31	28	21	18	16	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2700.7	2700.7	2700.7	2700.7	2700.7
2.5°	2709.4	2691.3	2700.7	2698.8	2691.9
5°	2696.3	2680.0	2690.6	2687.6	2689.4
7.5°	2675.0	2660.1	2671.3	2670.8	2673.8
10°	2645.8	2630.7	2644.5	2647.0	2650.8
12.5°	2607.0	2594.6	2611.4	2616.4	2623.8
15°	2562.0	2550.8	2570.2	2580.8	2588.9
17.5°	2509.6	2500.2	2525.2	2535.2	2546.4
20°	2449.0	2442.2	2471.5	2480.9	2497.1
22.5°	2381.6	2377.9	2408.4	2422.8	2441.5
25°	2307.2	2307.9	2344.1	2361.1	2380.9
27.5°	2229.3	2230.5	2271.8	2295.4	2316.6
30°	2144.9	2148.6	2193.6	2223.0	2251.1
32.5°	2055.6	2063.1	2111.8	2151.8	2183.0
35°	1965.1	1973.8	2027.6	2077.4	2113.0
37.5°	1867.1	1881.4	1942.0	2001.4	2038.1
40°	1770.9	1785.2	1853.3	1918.9	1956.4
42.5°	1671.7	1689.7	1762.2	1835.2	1871.4
45°	1568.0	1589.1	1668.5	1743.4	1782.8
47.5°	1468.6	1487.4	1571.0	1649.2	1689.7
50°	1359.3	1383.1	1469.9	1551.7	1591.7
52.5°	1255.1	1276.9	1366.2	1450.0	1486.2
55°	1147.7	1172.0	1260.8	1340.0	1365.7
57.5°	1037.7	1067.1	1152.7	1219.0	1243.3
60°	928.6	957.8	1038.4	1092.8	1110.9
62.5°	819.8	851.2	921.7	957.8	957.8
65°	708.7	740.6	800.5	806.7	804.2
67.5°	597.6	629.5	675.0	663.7	656.3
70°	489.5	517.0	543.9	523.2	505.8
72.5°	384.7	410.9	415.3	385.3	363.4
75°	290.9	310.4	300.3	258.0	235.5
77.5°	202.9	214.2	192.9	149.9	131.8
80°	127.4	132.4	103.7	73.0	61.1
82.5°	68.7	69.3	45.0	36.9	34.4
85°	30.6	27.5	20.6	18.1	16.3
87.5°	10.6	9.4	7.5	6.9	5.7
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	17.82	19.40	18.18	19.71	20.03	18.80	20.38	19.17	20.70	21.01
	3H	19.23	20.65	19.60	20.98	21.34	20.00	21.43	20.38	21.75	22.11
	4H	19.62	20.95	20.02	21.30	21.68	20.22	21.56	20.62	21.90	22.28
	6H	19.80	21.03	20.21	21.39	21.78	20.24	21.47	20.65	21.84	22.23
	8H	19.81	20.98	20.24	21.37	21.77	20.22	21.39	20.64	21.78	22.18
	12H	19.80	20.92	20.23	21.31	21.74	20.19	21.31	20.62	21.70	22.13
4H	2H	18.49	19.82	18.89	20.17	20.55	19.28	20.61	19.68	20.96	21.34
	3H	20.06	21.16	20.47	21.56	21.96	20.65	21.75	21.06	22.15	22.55
	4H	20.53	21.53	20.97	21.94	22.38	20.92	21.91	21.35	22.33	22.77
	6H	20.77	21.63	21.23	22.08	22.53	20.97	21.83	21.43	22.28	22.73
	8H	20.80	21.60	21.26	22.04	22.51	20.95	21.75	21.41	22.20	22.66
	12H	20.80	21.51	21.28	21.99	22.46	20.93	21.65	21.41	22.12	22.59
8H	4H	20.68	21.48	21.14	21.93	22.39	21.04	21.84	21.50	22.29	22.75
	6H	20.95	21.62	21.45	22.11	22.58	21.10	21.76	21.59	22.25	22.73
	8H	20.99	21.59	21.51	22.09	22.58	21.08	21.67	21.59	22.18	22.66
	12H	21.01	21.53	21.52	22.02	22.59	21.06	21.58	21.57	22.08	22.64
12H	4H	20.66	21.38	21.14	21.86	22.33	21.03	21.75	21.51	22.22	22.69
	6H	20.92	21.52	21.44	22.03	22.51	21.08	21.67	21.59	22.18	22.67
	8H	20.99	21.51	21.50	22.00	22.57	21.08	21.60	21.59	22.09	22.65