

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: P1498338

Luminaire Tested: MAE-G-2-120-2HI-HI-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498338
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-2-120-2HI-HI-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

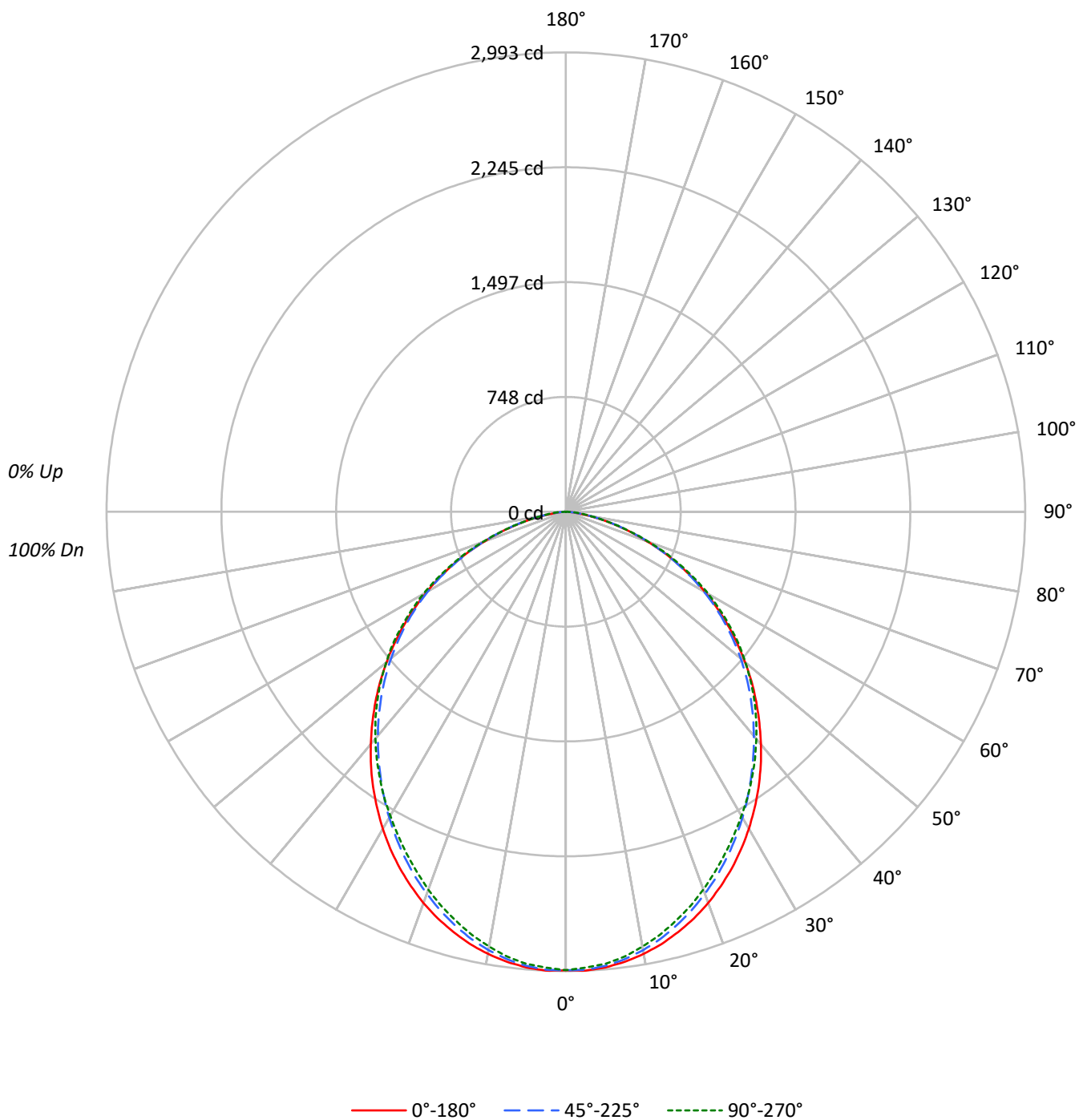
Lumens per Lamp: N/A
Luminaire Lumens: 7257.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	90	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8037	8037	8037
5°	8048	8022	7985
10°	7993	7925	7861
15°	7894	7772	7691
20°	7767	7585	7501
25°	7604	7377	7293
30°	7411	7151	7108
35°	7193	6916	6946
40°	6944	6695	6782
45°	6677	6470	6610
50°	6384	6225	6396
55°	6047	5936	6130
60°	5643	5579	5784
65°	5133	5107	5258
70°	4434	4470	4550
75°	3536	3641	3627
80°	2399	2557	2597
85°	1238	1732	2226

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6677 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.8	3.9
10°-20°	786.0	10.8
20°-30°	1148.3	15.8
30°-40°	1330.8	18.3
40°-50°	1327.5	18.3
50°-60°	1142.9	15.7
60°-70°	798.6	11.0
70°-80°	371.3	5.1
80°-90°	70.8	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°	2215.1	30.5
0°-40°	3545.9	48.9
0°-60°	6016.3	82.9
0°-90°	7257.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7257.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2987	2987	2987	2987	2987	
5°	2980	2969	2970	2952	2956	283
15°	2834	2814	2790	2759	2761	799
25°	2561	2530	2484	2454	2456	1179
35°	2190	2150	2105	2101	2114	1369
45°	1754	1719	1700	1720	1737	1353
55°	1289	1261	1265	1294	1307	1151
65°	806	792	802	817	826	798
75°	340	335	350	349	349	366
85°	40	45	56	67	72	59
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2986.6	2986.6	2986.6	2986.6	2986.6
2.5°	2992.6	2983.3	2986.6	2973.1	2972.5
5°	2979.5	2969.1	2969.7	2951.9	2956.0
7.5°	2956.7	2944.3	2940.3	2920.0	2923.6
10°	2925.0	2909.6	2900.2	2875.2	2877.0
12.5°	2884.3	2866.7	2850.6	2821.6	2824.6
15°	2833.7	2813.7	2789.9	2759.2	2760.7
17.5°	2778.0	2756.0	2722.8	2690.2	2694.8
20°	2712.1	2687.8	2648.6	2614.7	2619.5
22.5°	2639.0	2611.2	2570.3	2536.5	2538.8
25°	2560.9	2530.1	2484.4	2453.5	2456.4
27.5°	2476.1	2441.9	2395.0	2366.9	2372.2
30°	2384.9	2348.8	2301.3	2279.8	2287.4
32.5°	2289.0	2251.9	2205.4	2192.8	2204.3
35°	2189.6	2150.0	2105.4	2101.4	2114.3
37.5°	2086.1	2047.1	2006.4	2010.9	2024.3
40°	1976.8	1939.9	1905.9	1916.1	1930.6
42.5°	1866.7	1831.1	1804.1	1820.3	1836.0
45°	1754.4	1718.8	1700.0	1720.2	1737.0
47.5°	1642.6	1606.9	1595.3	1619.2	1634.2
50°	1525.0	1492.9	1487.0	1513.2	1527.7
52.5°	1406.2	1376.3	1377.1	1405.6	1423.8
55°	1289.0	1261.0	1265.3	1293.8	1306.6
57.5°	1168.5	1145.9	1153.0	1178.5	1191.4
60°	1048.5	1027.5	1036.6	1061.7	1074.7
62.5°	927.2	908.7	920.2	941.9	950.7
65°	806.1	791.7	802.0	816.9	825.7
67.5°	686.8	673.4	685.6	700.6	704.1
70°	563.6	554.5	568.1	577.7	578.3
72.5°	450.1	441.6	455.4	460.3	458.7
75°	340.1	335.3	350.2	349.2	348.8
77.5°	240.1	241.2	250.1	249.9	250.0
80°	154.8	160.2	165.0	168.2	167.6
82.5°	87.2	92.4	98.6	110.9	115.7
85°	40.1	45.4	56.1	67.3	72.1
87.5°	13.6	17.6	23.7	25.4	24.2
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	18.17	19.75	18.53	20.07	20.38	18.35	19.94	18.72	20.25	20.57
	3H	19.64	21.06	20.01	21.39	21.75	19.84	21.26	20.21	21.59	21.95
	4H	20.06	21.40	20.46	21.75	22.12	20.26	21.60	20.66	21.95	22.33
	6H	20.27	21.51	20.68	21.87	22.26	20.48	21.72	20.89	22.08	22.48
	8H	20.30	21.48	20.72	21.87	22.27	20.53	21.71	20.96	22.10	22.50
	12H	20.30	21.43	20.73	21.81	22.24	20.56	21.69	20.99	22.07	22.50
4H	2H	18.72	20.06	19.12	20.41	20.79	18.87	20.21	19.27	20.56	20.94
	3H	20.37	21.48	20.78	21.88	22.28	20.54	21.66	20.95	22.05	22.45
	4H	20.88	21.88	21.31	22.29	22.73	21.06	22.06	21.49	22.48	22.92
	6H	21.17	22.04	21.62	22.48	22.94	21.36	22.24	21.82	22.68	23.14
	8H	21.21	22.02	21.67	22.47	22.93	21.44	22.25	21.90	22.70	23.16
	12H	21.22	21.95	21.71	22.43	22.90	21.50	22.22	21.98	22.70	23.17
8H	4H	21.07	21.88	21.53	22.33	22.79	21.24	22.05	21.70	22.49	22.96
	6H	21.41	22.09	21.91	22.58	23.05	21.60	22.27	22.09	22.76	23.24
	8H	21.49	22.09	22.00	22.60	23.08	21.71	22.31	22.22	22.82	23.31
	12H	21.52	22.05	22.03	22.55	23.11	21.81	22.34	22.32	22.83	23.39
12H	4H	21.07	21.80	21.55	22.28	22.75	21.23	21.96	21.72	22.44	22.91
	6H	21.42	22.02	21.93	22.53	23.01	21.60	22.20	22.11	22.71	23.20
	8H	21.52	22.05	22.03	22.55	23.11	21.75	22.28	22.25	22.77	23.33