

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: P1498392

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498392
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-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

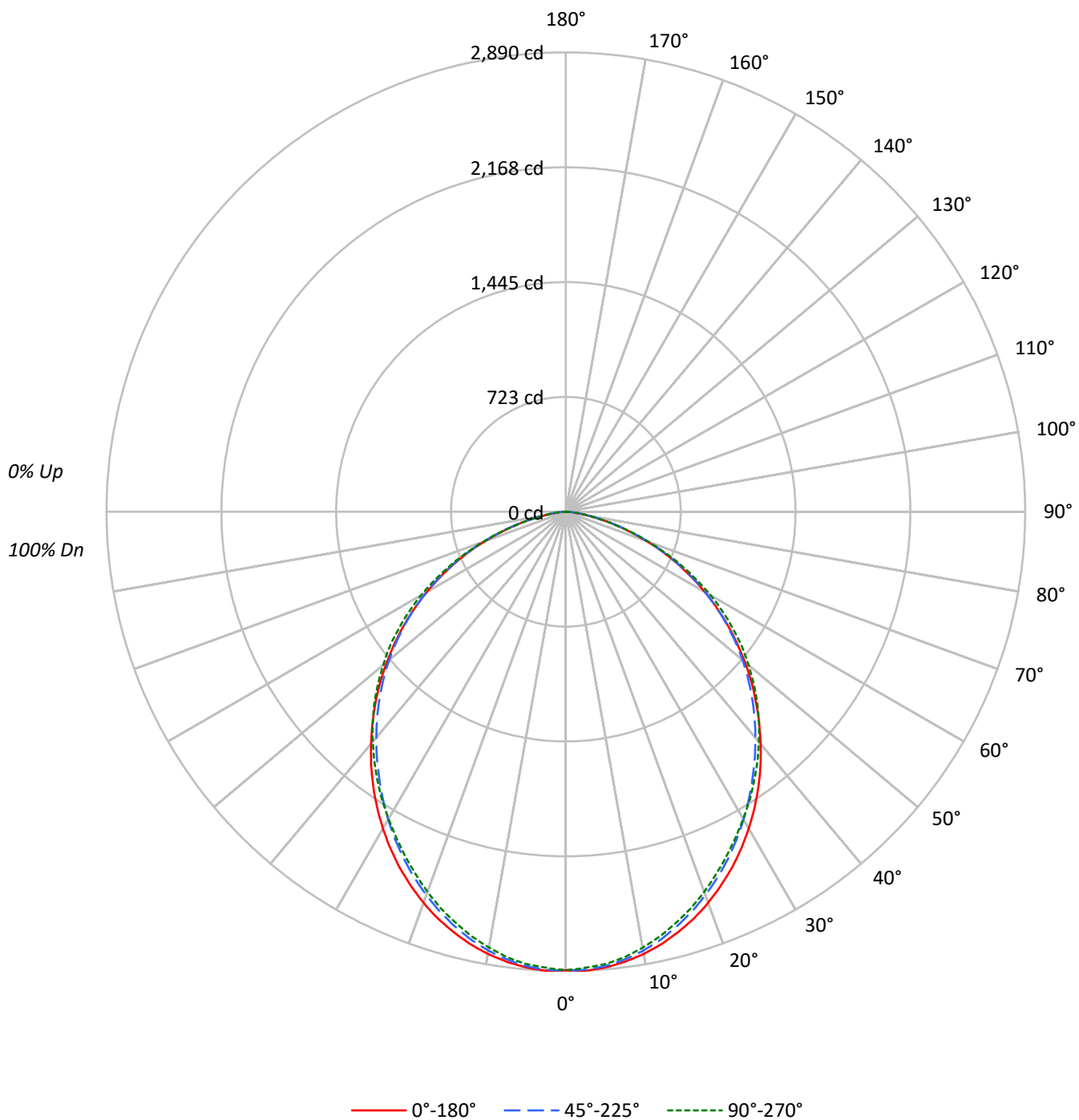
Lumens per Lamp: N/A
Luminaire Lumens: 7040.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	88	86
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	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	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7762	7762	7762
5°	7773	7749	7716
10°	7718	7660	7608
15°	7623	7521	7458
20°	7498	7350	7288
25°	7339	7157	7099
30°	7151	6946	6930
35°	6940	6726	6786
40°	6698	6518	6638
45°	6438	6306	6482
50°	6154	6074	6282
55°	5827	5797	6025
60°	5435	5450	5672
65°	4939	4984	5117
70°	4262	4336	4371
75°	3393	3485	3400
80°	2292	2377	2335
85°	1170	1553	1958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6482 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.3	3.9
10°-20°	760.6	10.8
20°-30°	1113.5	15.8
30°-40°	1293.0	18.4
40°-50°	1292.2	18.4
50°-60°	1114.0	15.8
60°-70°	776.0	11.0
70°-80°	354.7	5.0
80°-90°	64.7	0.9
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°	2145.4	30.5
0°-40°	3438.4	48.8
0°-60°	5844.6	83.0
0°-90°	7040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2884	2884	2884	2884	2884	
5°	2878	2867	2869	2853	2857	273
15°	2736	2718	2700	2675	2677	771
25°	2472	2446	2410	2386	2391	1138
35°	2112	2080	2047	2051	2066	1320
45°	1692	1664	1657	1684	1703	1305
55°	1242	1221	1236	1270	1284	1109
65°	776	768	783	796	804	768
75°	326	324	335	329	327	351
85°	38	42	50	60	63	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2884.3	2884.3	2884.3	2884.3	2884.3
2.5°	2890.3	2880.2	2884.3	2872.5	2871.1
5°	2877.7	2866.7	2868.6	2853.0	2856.6
7.5°	2855.5	2843.2	2841.1	2823.7	2827.1
10°	2824.6	2809.8	2803.4	2782.3	2784.2
12.5°	2785.2	2768.7	2757.0	2732.8	2736.1
15°	2736.2	2717.8	2699.8	2674.9	2677.0
17.5°	2682.2	2662.6	2636.7	2610.4	2615.5
20°	2618.2	2597.0	2566.6	2539.1	2544.9
22.5°	2547.5	2523.5	2492.1	2465.0	2468.7
25°	2471.9	2445.8	2410.4	2386.3	2390.8
27.5°	2389.7	2360.7	2325.1	2304.1	2311.0
30°	2301.5	2271.2	2235.5	2221.0	2230.4
32.5°	2208.5	2177.9	2143.4	2138.0	2151.6
35°	2112.5	2079.8	2047.3	2050.6	2065.6
37.5°	2012.6	1980.5	1952.3	1963.9	1979.6
40°	1906.6	1877.0	1855.6	1872.8	1889.6
42.5°	1800.2	1771.9	1757.5	1780.5	1798.7
45°	1691.6	1663.6	1656.9	1683.9	1703.4
47.5°	1583.9	1555.5	1555.6	1586.1	1603.5
50°	1470.0	1445.2	1450.8	1483.2	1500.5
52.5°	1355.6	1332.7	1344.2	1378.8	1399.3
55°	1242.1	1221.3	1235.6	1269.6	1284.2
57.5°	1125.7	1109.9	1126.2	1156.1	1170.3
60°	1009.9	995.5	1012.7	1040.6	1053.9
62.5°	892.8	880.6	898.9	921.2	929.2
65°	775.7	767.5	782.8	795.6	803.6
67.5°	660.7	652.7	667.9	679.3	681.7
70°	541.7	537.7	551.1	556.7	555.6
72.5°	432.4	427.8	439.2	439.4	436.1
75°	326.3	324.4	335.2	329.3	327.0
77.5°	229.8	232.6	236.6	231.6	229.9
80°	147.9	153.2	153.4	152.5	150.7
82.5°	82.8	87.2	89.5	99.1	102.9
85°	37.9	42.0	50.3	59.7	63.4
87.5°	12.8	16.1	21.1	22.5	21.3
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	18.05	19.63	18.41	19.94	20.26	18.33	19.91	18.69	20.23	20.54
	3H	19.51	20.93	19.88	21.26	21.62	19.77	21.20	20.15	21.52	21.88
	4H	19.93	21.27	20.33	21.61	21.99	20.17	21.51	20.57	21.85	22.23
	6H	20.13	21.37	20.55	21.74	22.13	20.36	21.59	20.77	21.96	22.35
	8H	20.16	21.34	20.59	21.73	22.13	20.40	21.57	20.82	21.96	22.36
	12H	20.16	21.29	20.59	21.67	22.10	20.42	21.55	20.85	21.93	22.36
4H	2H	18.61	19.95	19.01	20.30	20.67	18.84	20.18	19.24	20.53	20.90
	3H	20.25	21.36	20.66	21.76	22.16	20.47	21.58	20.88	21.98	22.38
	4H	20.76	21.76	21.19	22.17	22.61	20.95	21.95	21.39	22.37	22.81
	6H	21.04	21.91	21.49	22.35	22.81	21.22	22.09	21.68	22.53	22.99
	8H	21.08	21.89	21.54	22.34	22.80	21.28	22.09	21.74	22.53	23.00
	12H	21.09	21.82	21.57	22.30	22.77	21.32	22.05	21.80	22.53	23.00
8H	4H	20.94	21.75	21.40	22.20	22.66	21.12	21.93	21.58	22.38	22.84
	6H	21.28	21.95	21.77	22.44	22.91	21.44	22.11	21.94	22.60	23.08
	8H	21.34	21.94	21.86	22.45	22.94	21.53	22.13	22.04	22.64	23.13
	12H	21.38	21.91	21.89	22.40	22.96	21.61	22.14	22.12	22.63	23.19
12H	4H	20.94	21.67	21.42	22.14	22.61	21.12	21.84	21.60	22.32	22.79
	6H	21.27	21.88	21.79	22.38	22.87	21.44	22.04	21.95	22.55	23.03
	8H	21.38	21.91	21.88	22.40	22.96	21.56	22.09	22.07	22.58	23.15