

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: P1498548

Luminaire Tested: MAE-G-2-120-2STD-HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498548
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-2-120-2STD-HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

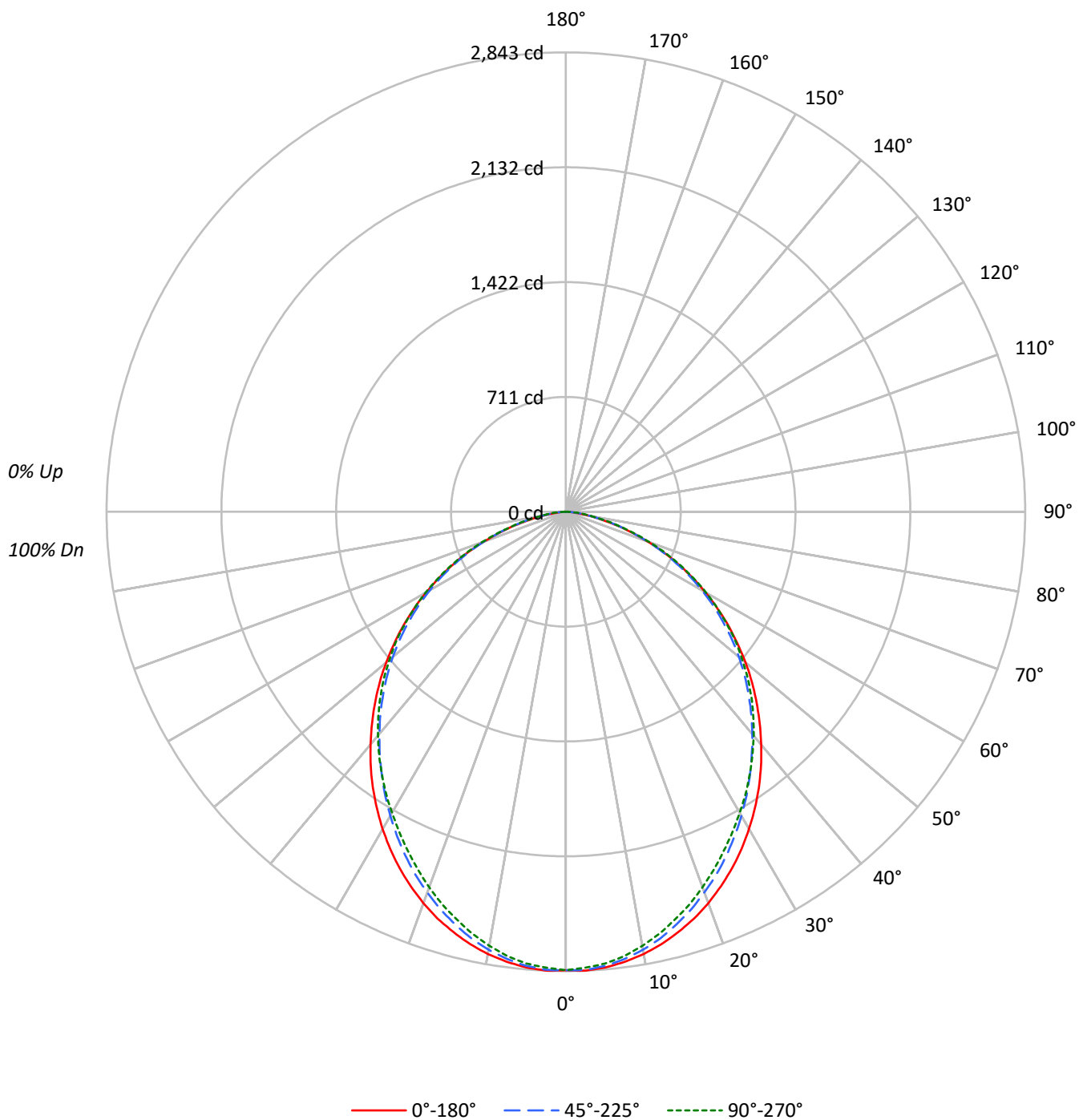
Lumens per Lamp: N/A
Luminaire Lumens: 6862.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
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	80	98	90	85	79	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	56		66	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7635	7635	7635
5°	7646	7619	7581
10°	7593	7521	7452
15°	7501	7368	7276
20°	7381	7180	7082
25°	7227	6975	6873
30°	7046	6752	6684
35°	6841	6524	6519
40°	6606	6307	6353
45°	6353	6087	6180
50°	6077	5851	5969
55°	5758	5575	5718
60°	5375	5236	5407
65°	4895	4798	4954
70°	4235	4227	4347
75°	3382	3490	3550
80°	2306	2523	2645
85°	1204	1769	2306

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6353 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	3.9
10°-20°	745.0	10.9
20°-30°	1086.3	15.8
30°-40°	1256.4	18.3
40°-50°	1250.8	18.2
50°-60°	1075.3	15.7
60°-70°	753.8	11.0
70°-80°	356.8	5.2
80°-90°	70.9	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°	2098.0	30.6
0°-40°	3354.4	48.9
0°-60°	5680.6	82.8
0°-90°	6862.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6862.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2837	2837	2837	2837	2837	
5°	2830	2821	2820	2802	2806	268
15°	2692	2673	2645	2611	2612	759
25°	2434	2401	2349	2314	2315	1120
35°	2082	2039	1986	1975	1984	1301
45°	1669	1629	1600	1611	1624	1288
55°	1227	1194	1188	1209	1219	1096
65°	769	749	754	769	778	760
75°	325	318	336	340	341	350
85°	39	45	57	70	75	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2837.3	2837.3	2837.3	2837.3	2837.3
2.5°	2842.6	2835.0	2837.3	2823.0	2823.4
5°	2830.4	2821.3	2820.5	2802.0	2806.3
7.5°	2808.8	2797.5	2791.6	2770.2	2773.7
10°	2778.8	2764.3	2752.4	2725.8	2727.3
12.5°	2740.3	2723.2	2703.8	2672.5	2674.9
15°	2692.5	2672.7	2644.7	2611.0	2611.8
17.5°	2639.7	2617.2	2579.4	2543.2	2546.9
20°	2577.4	2552.0	2507.4	2469.8	2473.1
22.5°	2508.2	2479.0	2431.8	2394.0	2394.7
25°	2434.0	2401.3	2349.0	2313.6	2314.8
27.5°	2353.9	2317.2	2262.7	2230.1	2233.3
30°	2267.5	2228.4	2172.9	2146.1	2151.2
32.5°	2176.6	2136.1	2081.3	2062.4	2071.0
35°	2082.4	2039.0	1985.8	1974.9	1984.4
37.5°	1984.0	1941.2	1891.3	1888.1	1898.0
40°	1880.6	1839.3	1795.4	1797.6	1808.5
42.5°	1776.0	1735.9	1698.5	1706.3	1718.1
45°	1669.4	1629.2	1599.6	1611.3	1624.0
47.5°	1562.9	1522.9	1500.3	1515.4	1526.8
50°	1451.6	1414.6	1397.7	1415.2	1425.7
52.5°	1338.4	1303.9	1293.8	1313.6	1327.8
55°	1227.3	1194.4	1188.3	1208.7	1218.8
57.5°	1112.8	1085.2	1082.3	1101.5	1112.1
60°	998.8	973.0	972.9	993.1	1004.6
62.5°	883.6	860.1	863.8	882.9	892.0
65°	768.7	749.1	753.5	769.1	778.1
67.5°	655.0	637.3	645.4	662.7	667.2
70°	538.2	524.8	537.2	550.2	552.5
72.5°	430.0	418.2	433.1	442.4	442.7
75°	325.3	318.0	335.7	339.9	341.4
77.5°	230.2	229.4	242.7	247.2	249.4
80°	148.8	153.6	162.8	169.9	170.7
82.5°	84.2	89.8	99.4	113.5	119.0
85°	39.0	44.9	57.3	69.5	74.7
87.5°	13.1	17.6	24.2	26.3	25.0
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	17.99	19.58	18.36	19.89	20.20	18.08	19.66	18.44	19.98	20.29
	3H	19.46	20.89	19.84	21.22	21.58	19.60	21.03	19.98	21.35	21.71
	4H	19.89	21.23	20.29	21.58	21.96	20.06	21.40	20.46	21.75	22.12
	6H	20.11	21.35	20.52	21.71	22.10	20.31	21.55	20.72	21.91	22.31
	8H	20.14	21.32	20.56	21.71	22.11	20.38	21.56	20.80	21.94	22.34
	12H	20.14	21.27	20.57	21.65	22.08	20.42	21.55	20.85	21.93	22.36
4H	2H	18.53	19.87	18.93	20.22	20.60	18.60	19.94	19.00	20.29	20.67
	3H	20.19	21.30	20.60	21.70	22.10	20.32	21.43	20.73	21.83	22.23
	4H	20.70	21.70	21.13	22.12	22.56	20.87	21.88	21.30	22.29	22.73
	6H	21.00	21.87	21.45	22.31	22.77	21.22	22.09	21.67	22.53	22.99
	8H	21.04	21.86	21.50	22.30	22.77	21.31	22.12	21.77	22.56	23.03
	12H	21.06	21.79	21.54	22.26	22.73	21.38	22.11	21.86	22.58	23.05
8H	4H	20.90	21.71	21.36	22.16	22.62	21.05	21.87	21.52	22.31	22.78
	6H	21.25	21.93	21.75	22.42	22.89	21.46	22.14	21.96	22.63	23.10
	8H	21.33	21.93	21.84	22.44	22.93	21.60	22.20	22.11	22.71	23.20
	12H	21.37	21.90	21.88	22.39	22.96	21.72	22.25	22.22	22.74	23.30
12H	4H	20.90	21.63	21.39	22.11	22.58	21.05	21.78	21.54	22.26	22.73
	6H	21.26	21.86	21.77	22.37	22.86	21.47	22.07	21.98	22.58	23.07
	8H	21.37	21.90	21.88	22.40	22.96	21.64	22.17	22.15	22.66	23.23