

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: P1498881

Luminaire Tested: MAE-G-2-120-3STD-STD-40

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498881
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-2-120-3STD-STD-40
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

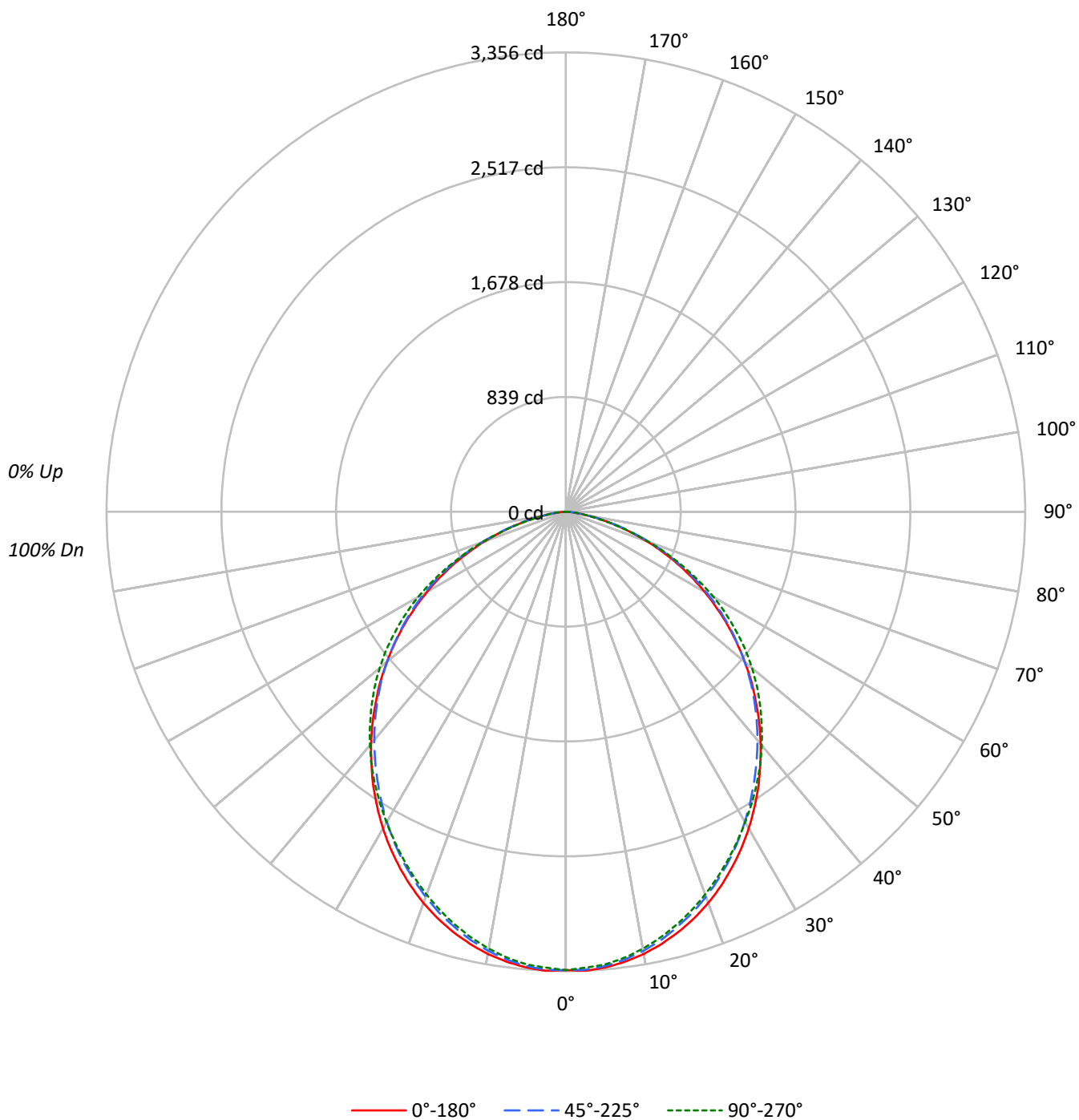
Lumens per Lamp: N/A
Luminaire Lumens: 8229.0 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.1
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	42	40
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	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9010	9010	9010
5°	9026	8997	8966
10°	8964	8902	8855
15°	8856	8754	8702
20°	8711	8574	8521
25°	8521	8363	8324
30°	8303	8126	8141
35°	8056	7884	7986
40°	7776	7649	7822
45°	7473	7408	7641
50°	7141	7138	7429
55°	6768	6825	7123
60°	6304	6424	6718
65°	5728	5886	6021
70°	4936	5121	5094
75°	3923	4080	3834
80°	2644	2696	2531
85°	1362	1707	2093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.2	3.8
10°-20°	885.3	10.8
20°-30°	1299.4	15.8
30°-40°	1512.0	18.4
40°-50°	1514.6	18.4
50°-60°	1308.4	15.9
60°-70°	911.1	11.1
70°-80°	410.9	5.0
80°-90°	72.1	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°	2499.9	30.4
0°-40°	4011.9	48.8
0°-60°	6834.9	83.1
0°-90°	8229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3348	3348	3348	3348	3348	
5°	3342	3328	3331	3315	3319	317
15°	3179	3158	3142	3119	3124	896
25°	2870	2843	2817	2793	2804	1321
35°	2452	2420	2400	2408	2431	1532
45°	1964	1940	1947	1983	2008	1515
55°	1442	1424	1455	1502	1518	1288
65°	900	895	924	942	946	889
75°	377	380	392	379	369	405
85°	44	48	55	64	68	65
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3348.3	3348.3	3348.3	3348.3	3348.3
2.5°	3356.5	3343.0	3348.3	3335.8	3333.7
5°	3341.5	3327.5	3330.7	3314.6	3319.2
7.5°	3315.6	3300.6	3299.6	3282.0	3286.2
10°	3280.4	3262.7	3257.7	3237.6	3240.7
12.5°	3233.6	3215.1	3205.3	3182.1	3187.4
15°	3178.7	3158.1	3142.1	3119.0	3123.7
17.5°	3114.9	3092.0	3072.7	3046.0	3053.7
20°	3041.8	3017.0	2993.9	2965.6	2975.7
22.5°	2959.8	2933.6	2907.3	2881.6	2891.6
25°	2869.7	2842.8	2816.7	2793.2	2803.5
27.5°	2774.7	2744.9	2718.3	2700.8	2712.4
30°	2672.0	2641.0	2615.1	2603.5	2620.0
32.5°	2563.6	2532.7	2509.3	2507.6	2526.7
35°	2452.2	2419.6	2400.0	2408.4	2430.9
37.5°	2332.4	2304.7	2290.0	2308.5	2331.4
40°	2213.6	2184.8	2177.5	2202.6	2226.7
42.5°	2090.8	2065.0	2063.5	2096.4	2118.8
45°	1963.7	1939.5	1946.7	1983.3	2007.8
47.5°	1838.7	1814.0	1828.0	1868.3	1894.8
50°	1705.8	1685.4	1705.0	1750.4	1774.6
52.5°	1573.8	1554.1	1580.6	1628.7	1652.2
55°	1442.5	1424.5	1454.7	1501.5	1518.2
57.5°	1306.6	1295.5	1326.9	1368.2	1385.9
60°	1171.3	1161.6	1193.7	1232.3	1248.3
62.5°	1035.9	1029.4	1060.4	1092.0	1097.7
65°	899.6	895.1	924.4	941.9	945.6
67.5°	761.8	761.3	788.4	798.2	798.1
70°	627.3	625.5	650.9	654.3	647.5
72.5°	496.7	498.9	516.0	513.2	502.2
75°	377.3	379.6	392.4	379.3	368.8
77.5°	266.4	268.6	275.1	260.5	254.1
80°	170.6	175.8	174.0	167.6	163.3
82.5°	95.4	101.0	99.4	107.5	111.1
85°	44.1	47.6	55.3	64.1	67.8
87.5°	15.0	18.1	22.7	24.3	22.7
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	18.57	20.15	18.93	20.47	20.78	18.96	20.54	19.32	20.85	21.17
	3H	20.02	21.44	20.40	21.77	22.13	20.38	21.80	20.75	22.13	22.49
	4H	20.44	21.77	20.84	22.12	22.50	20.75	22.09	21.15	22.43	22.81
	6H	20.64	21.88	21.05	22.24	22.63	20.91	22.14	21.32	22.51	22.90
	8H	20.66	21.84	21.09	22.23	22.63	20.94	22.11	21.36	22.50	22.90
	12H	20.66	21.79	21.09	22.17	22.60	20.95	22.08	21.38	22.46	22.89
4H	2H	19.15	20.49	19.55	20.84	21.22	19.47	20.80	19.87	21.15	21.53
	3H	20.78	21.89	21.19	22.29	22.69	21.07	22.18	21.48	22.58	22.98
	4H	21.28	22.28	21.71	22.70	23.13	21.53	22.53	21.96	22.94	23.38
	6H	21.56	22.43	22.01	22.87	23.33	21.76	22.63	22.22	23.07	23.53
	8H	21.60	22.41	22.06	22.85	23.32	21.80	22.62	22.27	23.06	23.53
	12H	21.61	22.33	22.09	22.81	23.28	21.84	22.56	22.32	23.04	23.51
8H	4H	21.47	22.28	21.93	22.72	23.19	21.69	22.50	22.15	22.95	23.41
	6H	21.79	22.46	22.29	22.95	23.43	21.97	22.64	22.47	23.13	23.61
	8H	21.86	22.46	22.37	22.97	23.45	22.04	22.64	22.55	23.15	23.64
	12H	21.89	22.42	22.40	22.91	23.48	22.11	22.64	22.62	23.13	23.69
12H	4H	21.46	22.19	21.94	22.67	23.14	21.69	22.41	22.17	22.89	23.36
	6H	21.79	22.39	22.30	22.90	23.38	21.96	22.56	22.47	23.07	23.56
	8H	21.89	22.41	22.39	22.91	23.47	22.07	22.60	22.58	23.09	23.65