

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: P1499451

Luminaire Tested: MAE-G-4-120-2STD-STD-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499451
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-4-120-2STD-STD-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

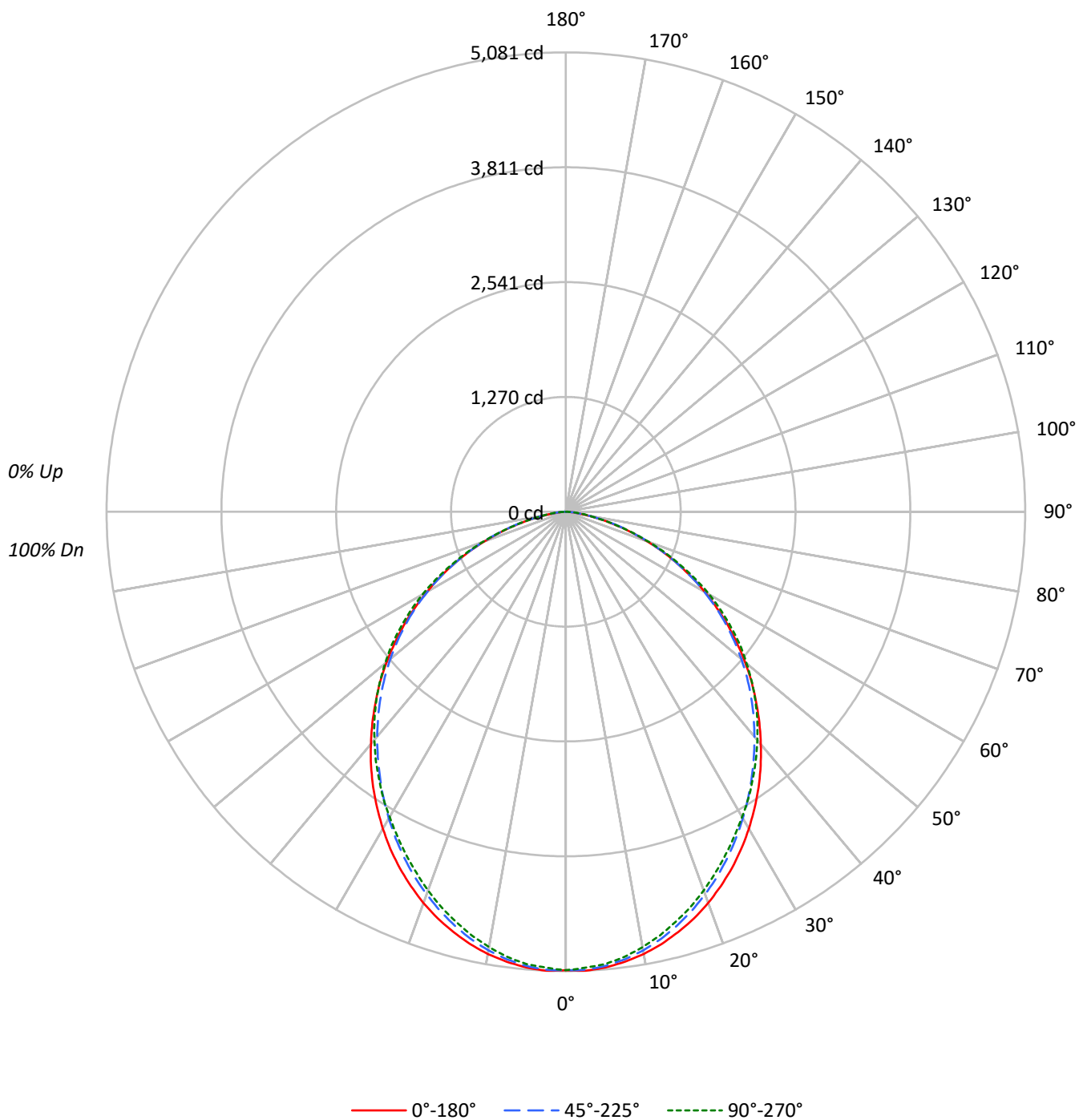
Lumens per Lamp: N/A
Luminaire Lumens: 12343.0 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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			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	85
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°	6823	6823	6823
5°	6833	6811	6780
10°	6785	6730	6679
15°	6701	6604	6540
20°	6592	6448	6383
25°	6454	6274	6210
30°	6289	6084	6056
35°	6104	5888	5923
40°	5892	5702	5788
45°	5664	5512	5645
50°	5416	5306	5465
55°	5130	5062	5240
60°	4786	4758	4940
65°	4351	4353	4477
70°	3758	3801	3855
75°	2994	3080	3044
80°	2028	2139	2146
85°	1042	1430	1825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5664 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.9	3.9
10°-20°	1335.5	10.8
20°-30°	1952.8	15.8
30°-40°	2264.8	18.3
40°-50°	2260.9	18.3
50°-60°	1947.5	15.8
60°-70°	1359.1	11.0
70°-80°	627.8	5.1
80°-90°	117.7	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°	3765.2	30.5
0°-40°	6030.0	48.9
0°-60°	10238.4	82.9
0°-90°	12343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12343.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5071	5071	5071	5071	5071	
5°	5059	5041	5043	5014	5020	480
15°	4811	4778	4741	4692	4695	1356
25°	4347	4297	4226	4177	4183	2001
35°	3716	3653	3584	3582	3606	2323
45°	2977	2921	2897	2936	2967	2296
55°	2187	2143	2158	2210	2234	1953
65°	1367	1346	1367	1392	1406	1352
75°	576	570	592	588	586	620
85°	68	76	93	111	118	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5070.9	5070.9	5070.9	5070.9	5070.9
2.5°	5081.2	5064.7	5070.9	5048.7	5047.3
5°	5059.1	5040.7	5042.6	5013.5	5020.1
7.5°	5020.1	4998.9	4993.3	4960.3	4966.4
10°	4966.2	4940.0	4925.9	4885.5	4888.7
12.5°	4896.9	4867.4	4842.7	4796.1	4801.4
15°	4811.0	4777.7	4740.7	4691.7	4694.8
17.5°	4716.2	4680.0	4627.9	4576.0	4584.4
20°	4604.1	4564.4	4503.0	4448.9	4457.9
22.5°	4479.9	4434.8	4370.7	4317.2	4322.0
25°	4347.1	4297.4	4225.8	4177.2	4183.2
27.5°	4203.0	4147.6	4074.6	4031.2	4041.3
30°	4048.2	3990.0	3916.1	3883.9	3898.2
32.5°	3885.1	3825.5	3753.8	3736.9	3758.2
35°	3716.3	3652.8	3584.4	3582.4	3606.0
37.5°	3540.6	3478.2	3416.7	3429.1	3453.8
40°	3354.7	3296.0	3246.2	3268.5	3295.2
42.5°	3167.7	3111.3	3073.4	3106.0	3134.8
45°	2976.9	2920.8	2896.7	2936.3	2966.9
47.5°	2787.2	2730.8	2718.8	2764.4	2791.9
50°	2587.4	2537.1	2534.8	2584.2	2611.0
52.5°	2385.8	2339.3	2347.9	2401.0	2434.0
55°	2186.7	2143.4	2157.7	2210.4	2233.7
57.5°	1982.1	1947.7	1966.3	2013.3	2036.3
60°	1778.4	1746.7	1768.1	1813.0	1835.6
62.5°	1572.4	1545.0	1569.4	1607.0	1621.7
65°	1366.8	1346.1	1367.3	1391.6	1406.2
67.5°	1164.3	1145.0	1168.0	1191.3	1196.6
70°	955.2	943.0	966.2	980.1	979.9
72.5°	762.6	750.7	772.8	778.0	774.1
75°	576.0	569.6	592.5	587.5	585.5
77.5°	406.3	409.3	421.3	417.5	416.7
80°	261.7	270.9	276.1	278.8	276.9
82.5°	147.1	155.5	163.5	182.9	190.5
85°	67.5	75.8	92.6	110.6	118.2
87.5°	22.8	29.3	38.9	41.9	39.6
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	17.60	19.18	17.96	19.50	19.81	17.82	19.41	18.19	19.72	20.03
	3H	19.06	20.49	19.44	20.81	21.18	19.29	20.71	19.67	21.04	21.40
	4H	19.49	20.83	19.89	21.17	21.55	19.70	21.04	20.10	21.39	21.77
	6H	19.70	20.93	20.11	21.30	21.69	19.91	21.15	20.32	21.51	21.91
	8H	19.72	20.90	20.15	21.29	21.69	19.96	21.14	20.38	21.53	21.93
	12H	19.72	20.85	20.15	21.23	21.66	19.98	21.11	20.41	21.49	21.92
4H	2H	18.16	19.49	18.56	19.84	20.22	18.34	19.68	18.74	20.02	20.40
	3H	19.80	20.91	20.21	21.31	21.71	19.99	21.10	20.40	21.50	21.90
	4H	20.31	21.31	20.74	21.72	22.16	20.50	21.50	20.93	21.91	22.35
	6H	20.59	21.47	21.05	21.91	22.36	20.79	21.66	21.24	22.10	22.56
	8H	20.64	21.45	21.10	21.89	22.36	20.85	21.67	21.32	22.11	22.58
	12H	20.65	21.38	21.13	21.86	22.33	20.91	21.63	21.39	22.11	22.58
8H	4H	20.50	21.31	20.96	21.75	22.22	20.67	21.48	21.13	21.93	22.39
	6H	20.84	21.51	21.33	22.00	22.48	21.02	21.69	21.51	22.18	22.65
	8H	20.91	21.51	21.42	22.02	22.51	21.12	21.72	21.63	22.23	22.71
	12H	20.94	21.48	21.45	21.97	22.53	21.21	21.74	21.72	22.23	22.79
12H	4H	20.50	21.22	20.98	21.70	22.17	20.67	21.39	21.15	21.87	22.34
	6H	20.84	21.44	21.35	21.95	22.44	21.01	21.61	21.52	22.12	22.61
	8H	20.94	21.47	21.45	21.97	22.53	21.15	21.68	21.66	22.17	22.74