

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: P1499664

Luminaire Tested: MAE-G-4-120-3STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499664
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-4-120-3STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

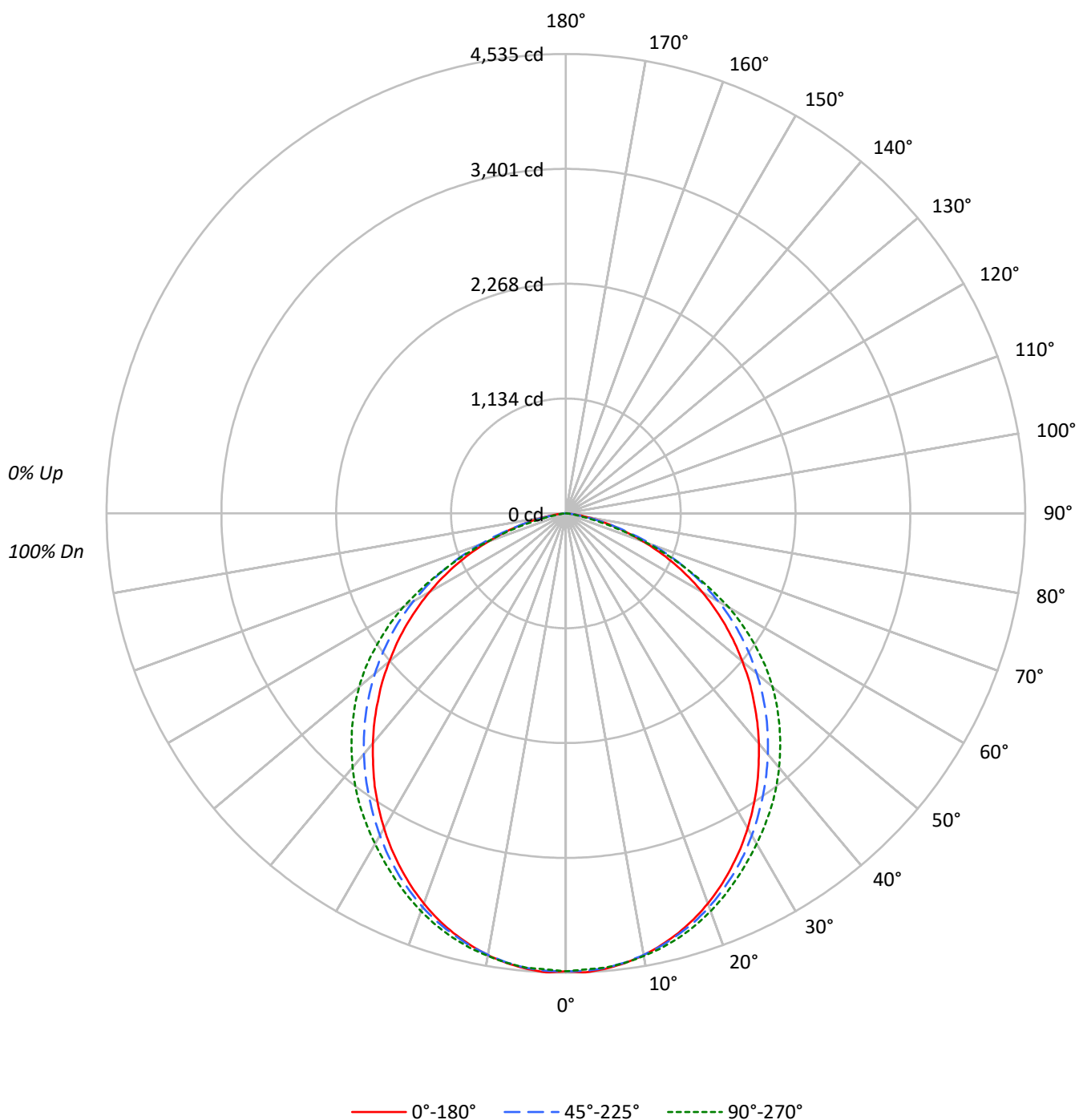
Lumens per Lamp: N/A
Luminaire Lumens: 11458.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6083	6083	6083
5°	6096	6083	6080
10°	6051	6048	6062
15°	5974	5993	6037
20°	5870	5924	5985
25°	5734	5825	5917
30°	5578	5705	5854
35°	5403	5575	5810
40°	5207	5449	5752
45°	4994	5314	5678
50°	4763	5150	5577
55°	4507	4951	5362
60°	4183	4678	5004
65°	3777	4266	4286
70°	3224	3582	3331
75°	2532	2613	2049
80°	1652	1344	793
85°	792	531	421

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5678 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.0	3.7
10°-20°	1212.3	10.6
20°-30°	1803.1	15.7
30°-40°	2124.8	18.5
40°-50°	2154.3	18.8
50°-60°	1877.2	16.4
60°-70°	1283.8	11.2
70°-80°	515.7	4.5
80°-90°	59.8	0.5
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°	3442.5	30.0
0°-40°	5567.2	48.6
0°-60°	9598.7	83.8
0°-90°	11458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4521	4521	4521	4521	4521	
5°	4513	4486	4504	4499	4502	428
15°	4289	4270	4302	4320	4334	1208
25°	3862	3863	3924	3952	3986	1778
35°	3289	3304	3394	3478	3537	2055
45°	2625	2660	2793	2918	2984	2026
55°	1921	1962	2110	2243	2286	1715
65°	1186	1240	1340	1350	1346	1173
75°	487	520	503	432	394	523
85°	51	46	34	30	27	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4520.8	4520.8	4520.8	4520.8	4520.8
2.5°	4535.3	4505.1	4520.8	4517.6	4506.0
5°	4513.4	4486.1	4503.9	4498.8	4501.8
7.5°	4477.8	4452.9	4471.6	4470.7	4475.7
10°	4428.8	4403.7	4426.8	4430.9	4437.2
12.5°	4363.9	4343.1	4371.3	4379.6	4392.1
15°	4288.6	4269.9	4302.2	4320.0	4333.7
17.5°	4200.8	4185.1	4226.9	4243.8	4262.5
20°	4099.4	4088.1	4137.0	4152.8	4180.0
22.5°	3986.6	3980.4	4031.5	4055.5	4086.9
25°	3862.1	3863.3	3923.8	3952.2	3985.5
27.5°	3731.6	3733.7	3802.7	3842.3	3877.8
30°	3590.4	3596.7	3672.0	3721.2	3768.1
32.5°	3441.0	3453.4	3535.0	3602.0	3654.2
35°	3289.4	3304.0	3394.1	3477.5	3537.1
37.5°	3125.4	3149.4	3250.8	3350.2	3411.6
40°	2964.3	2988.4	3102.3	3212.0	3274.8
42.5°	2798.2	2828.5	2949.8	3072.0	3132.5
45°	2624.7	2660.1	2792.9	2918.4	2984.2
47.5°	2458.4	2489.8	2629.8	2760.6	2828.5
50°	2275.4	2315.1	2460.5	2597.5	2664.5
52.5°	2101.0	2137.5	2287.0	2427.2	2487.7
55°	1921.2	1961.9	2110.5	2243.1	2286.0
57.5°	1737.1	1786.3	1929.6	2040.5	2081.1
60°	1554.4	1603.3	1738.3	1829.3	1859.6
62.5°	1372.3	1424.8	1542.8	1603.3	1603.3
65°	1186.3	1239.7	1340.0	1350.4	1346.2
67.5°	1000.4	1053.7	1130.0	1111.0	1098.5
70°	819.5	865.4	910.5	875.8	846.7
72.5°	643.9	687.8	695.2	645.0	608.3
75°	487.0	519.6	502.7	431.8	394.1
77.5°	339.6	358.6	323.0	250.9	220.6
80°	213.2	221.6	173.5	122.2	102.3
82.5°	115.1	116.0	75.3	61.7	57.5
85°	51.3	46.0	34.4	30.3	27.3
87.5°	17.8	15.7	12.5	11.6	9.5
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	17.20	18.78	17.56	19.10	19.41	18.18	19.77	18.55	20.08	20.39
	3H	18.61	20.03	18.99	20.36	20.72	19.39	20.81	19.76	21.14	21.50
	4H	19.00	20.34	19.40	20.68	21.06	19.60	20.94	20.00	21.29	21.66
	6H	19.18	20.41	19.59	20.78	21.17	19.62	20.85	20.03	21.22	21.61
	8H	19.19	20.37	19.62	20.76	21.16	19.60	20.77	20.02	21.16	21.56
	12H	19.18	20.31	19.61	20.69	21.12	19.57	20.70	20.00	21.08	21.51
4H	2H	17.87	19.20	18.27	19.55	19.93	18.66	19.99	19.06	20.34	20.72
	3H	19.44	20.54	19.85	20.94	21.34	20.03	21.14	20.44	21.53	21.93
	4H	19.91	20.91	20.35	21.32	21.76	20.30	21.30	20.73	21.71	22.15
	6H	20.15	21.02	20.61	21.46	21.92	20.35	21.22	20.81	21.66	22.12
	8H	20.18	20.98	20.64	21.43	21.89	20.33	21.13	20.79	21.58	22.04
	12H	20.18	20.90	20.66	21.37	21.84	20.31	21.03	20.79	21.50	21.98
8H	4H	20.06	20.86	20.52	21.31	21.77	20.42	21.22	20.88	21.67	22.13
	6H	20.34	21.00	20.83	21.49	21.96	20.48	21.14	20.98	21.63	22.11
	8H	20.38	20.97	20.89	21.48	21.96	20.46	21.05	20.97	21.56	22.05
	12H	20.39	20.91	20.90	21.40	21.97	20.44	20.96	20.95	21.46	22.02
12H	4H	20.04	20.76	20.52	21.24	21.71	20.41	21.13	20.89	21.61	22.08
	6H	20.31	20.90	20.82	21.41	21.89	20.46	21.05	20.97	21.56	22.05
	8H	20.37	20.89	20.88	21.38	21.95	20.46	20.98	20.97	21.47	22.04