

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: P1499370

Luminaire Tested: MAE-G-4-120-2STD-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499370
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-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

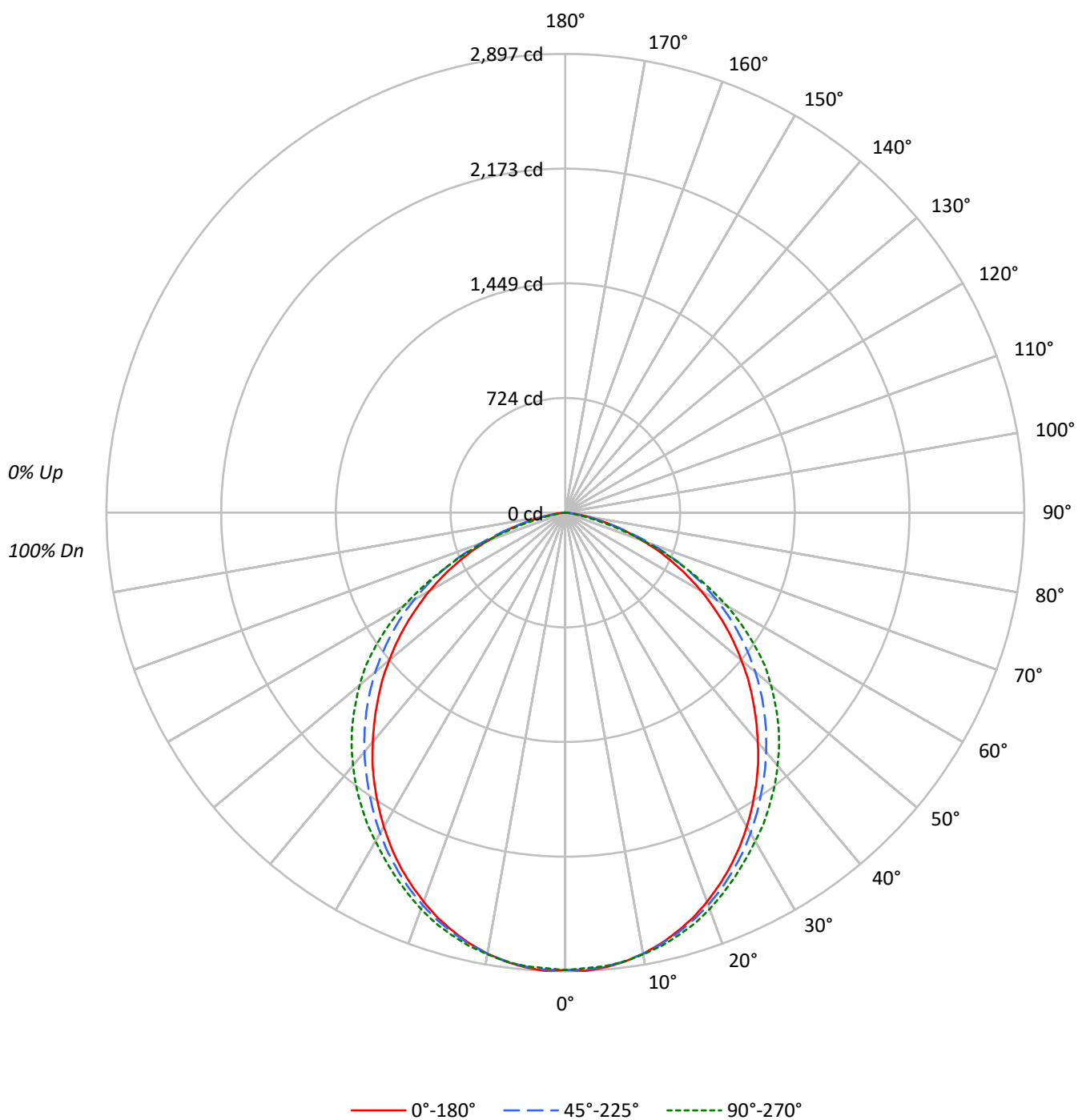
Lumens per Lamp: N/A
Luminaire Lumens: 7292.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 68.3
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			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	102	98	107	103	100	97	99	96	93		95	93	91		92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65	59	55	53
5	78	65	57	50	76	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	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	28	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3887	3887	3887
5°	3894	3887	3883
10°	3864	3864	3869
15°	3812	3826	3849
20°	3744	3775	3815
25°	3661	3709	3765
30°	3560	3633	3725
35°	3448	3545	3696
40°	3320	3465	3661
45°	3184	3378	3621
50°	3037	3277	3548
55°	2869	3145	3415
60°	2666	2969	3170
65°	2405	2698	2714
70°	2053	2245	2099
75°	1612	1627	1311
80°	1048	837	502
85°	485	318	258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	3.7
10°-20°	773.8	10.6
20°-30°	1149.6	15.8
30°-40°	1354.0	18.6
40°-50°	1371.8	18.8
50°-60°	1194.0	16.4
60°-70°	813.6	11.2
70°-80°	325.2	4.5
80°-90°	37.2	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°	2196.2	30.1
0°-40°	3550.2	48.7
0°-60°	6116.0	83.9
0°-90°	7292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2889	2889	2889	2889	2889	
5°	2883	2866	2878	2874	2875	273
15°	2737	2725	2746	2756	2763	771
25°	2466	2467	2498	2519	2536	1135
35°	2099	2109	2158	2215	2250	1312
45°	1674	1694	1775	1859	1903	1292
55°	1223	1250	1341	1425	1456	1093
65°	755	791	848	849	852	749
75°	310	329	313	269	252	334
85°	31	28	21	19	17	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2888.7	2888.7	2888.7	2888.7	2888.7
2.5°	2896.7	2878.1	2888.7	2886.8	2879.0
5°	2882.9	2866.2	2878.1	2874.2	2875.1
7.5°	2860.3	2844.7	2857.5	2856.4	2859.5
10°	2828.0	2812.4	2828.0	2828.9	2831.9
12.5°	2787.7	2774.0	2792.7	2796.6	2803.5
15°	2736.7	2725.0	2746.5	2756.5	2763.2
17.5°	2681.9	2674.1	2695.5	2708.3	2719.2
20°	2615.1	2611.2	2636.8	2649.4	2664.1
22.5°	2542.5	2540.5	2571.1	2586.7	2601.5
25°	2465.9	2467.0	2498.5	2519.1	2535.8
27.5°	2381.6	2383.6	2421.9	2446.4	2467.0
30°	2291.4	2296.4	2338.5	2371.9	2397.4
32.5°	2196.2	2205.1	2250.2	2296.4	2328.7
35°	2099.1	2109.1	2158.1	2214.9	2250.2
37.5°	1999.2	2010.0	2066.8	2133.6	2170.9
40°	1890.3	1906.8	1972.7	2046.2	2084.4
42.5°	1783.2	1801.9	1875.6	1956.0	1997.2
45°	1673.5	1694.1	1775.4	1858.9	1902.9
47.5°	1567.5	1585.1	1672.4	1759.8	1799.1
50°	1450.9	1474.3	1565.6	1652.9	1695.0
52.5°	1339.0	1361.5	1454.8	1543.9	1587.2
55°	1223.2	1249.7	1340.9	1425.3	1455.6
57.5°	1106.6	1136.9	1225.2	1294.8	1321.2
60°	990.8	1021.2	1103.5	1158.4	1178.1
62.5°	873.9	905.4	978.0	1011.4	1015.3
65°	755.4	790.7	847.5	848.6	852.5
67.5°	642.6	671.9	713.1	701.4	695.5
70°	521.9	554.2	570.8	547.4	533.6
72.5°	415.0	438.4	435.6	401.1	384.6
75°	310.0	328.7	312.9	268.8	252.1
77.5°	214.9	230.5	199.0	157.8	141.4
80°	135.3	142.2	108.0	76.5	64.8
82.5°	72.6	71.5	46.2	38.2	35.3
85°	31.4	28.4	20.6	18.6	16.7
87.5°	10.8	9.8	7.8	6.9	5.9
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	15.63	17.21	16.00	17.53	17.84	16.59	18.18	16.96	18.49	18.80
	3H	17.05	18.47	17.43	18.80	19.16	17.78	19.20	18.16	19.53	19.89
	4H	17.45	18.78	17.85	19.13	19.51	18.00	19.33	18.40	19.68	20.06
	6H	17.62	18.85	18.03	19.22	19.61	18.02	19.25	18.43	19.61	20.00
	8H	17.63	18.81	18.06	19.20	19.60	17.99	19.17	18.42	19.55	19.95
	12H	17.62	18.75	18.05	19.13	19.56	17.97	19.09	18.40	19.47	19.90
4H	2H	16.29	17.63	16.69	17.97	18.35	17.07	18.40	17.47	18.75	19.13
	3H	17.87	18.98	18.28	19.37	19.78	18.42	19.52	18.83	19.92	20.32
	4H	18.35	19.34	18.78	19.75	20.19	18.69	19.68	19.12	20.09	20.53
	6H	18.59	19.45	19.04	19.89	20.35	18.74	19.60	19.19	20.04	20.50
	8H	18.61	19.41	19.07	19.86	20.32	18.71	19.52	19.17	19.96	20.43
	12H	18.61	19.33	19.09	19.80	20.27	18.69	19.41	19.17	19.89	20.36
8H	4H	18.48	19.29	18.95	19.73	20.20	18.80	19.60	19.26	20.05	20.51
	6H	18.76	19.42	19.26	19.91	20.39	18.86	19.52	19.36	20.01	20.49
	8H	18.80	19.39	19.31	19.90	20.39	18.84	19.43	19.35	19.94	20.42
	12H	18.81	19.33	19.32	19.82	20.39	18.82	19.34	19.33	19.83	20.40
12H	4H	18.47	19.18	18.95	19.66	20.13	18.79	19.51	19.27	19.98	20.45
	6H	18.73	19.32	19.24	19.83	20.32	18.84	19.43	19.35	19.94	20.42
	8H	18.79	19.31	19.30	19.81	20.37	18.84	19.36	19.35	19.85	20.41