

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: P1498869

Luminaire Tested: MAE-G-2-120-3STD-STD-30

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498869
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-30
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

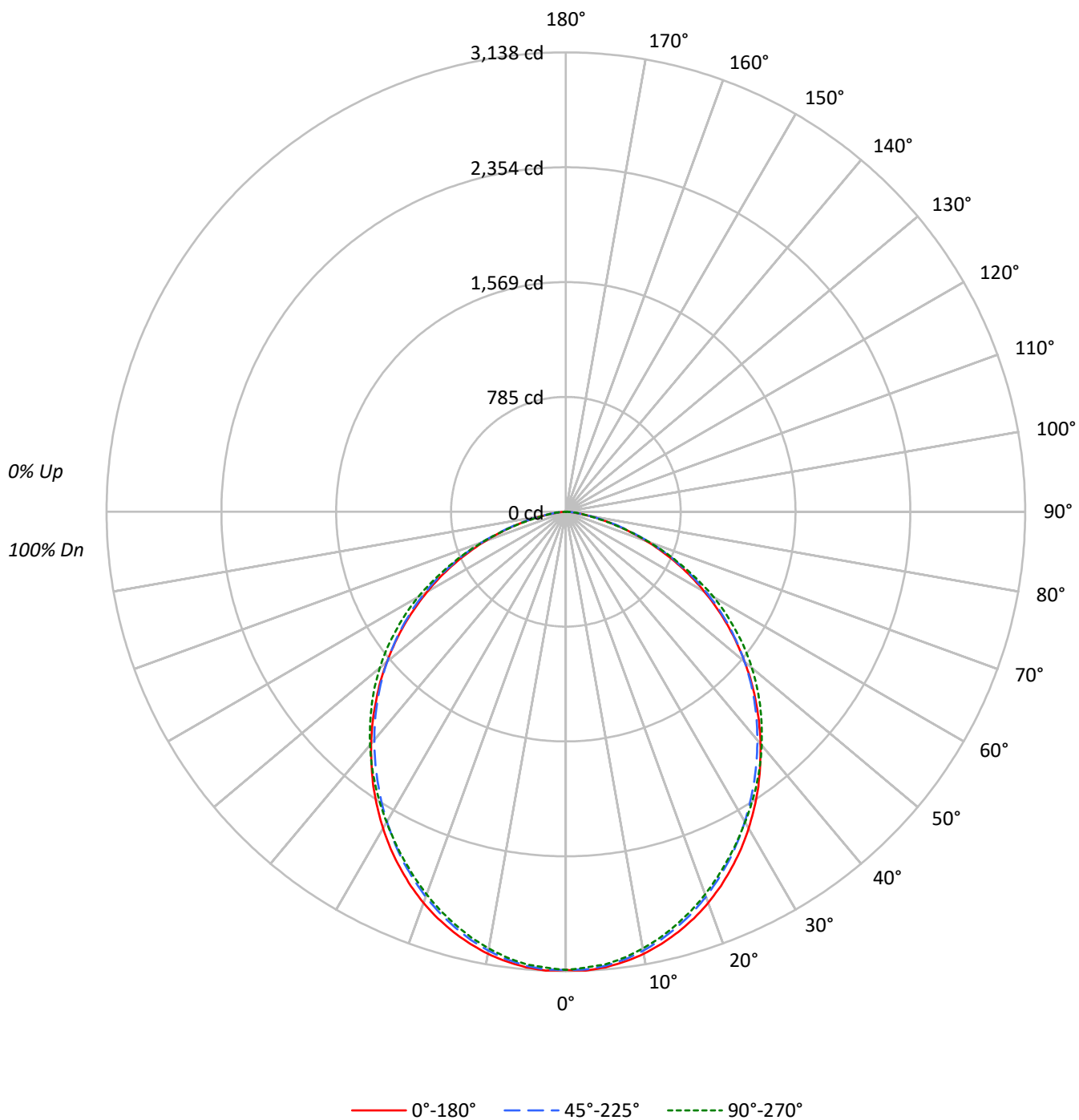
Lumens per Lamp: N/A
Luminaire Lumens: 7692.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	81	98	91	85	80	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	57		67	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	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	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8422	8422	8422
5°	8437	8410	8381
10°	8379	8321	8277
15°	8277	8182	8134
20°	8142	8014	7965
25°	7964	7818	7781
30°	7761	7596	7610
35°	7530	7369	7464
40°	7269	7150	7312
45°	6985	6925	7142
50°	6676	6672	6944
55°	6326	6379	6658
60°	5893	6005	6280
65°	5354	5502	5628
70°	4614	4787	4763
75°	3667	3814	3585
80°	2470	2521	2366
85°	1272	1596	1954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7142 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	3.8
10°-20°	827.5	10.8
20°-30°	1214.6	15.8
30°-40°	1413.3	18.4
40°-50°	1415.7	18.4
50°-60°	1223.0	15.9
60°-70°	851.7	11.1
70°-80°	384.1	5.0
80°-90°	67.4	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°	2336.8	30.4
0°-40°	3750.1	48.8
0°-60°	6388.8	83.1
0°-90°	7692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3130	3130	3130	3130	3130	
5°	3123	3110	3113	3098	3103	296
15°	2971	2952	2937	2915	2920	837
25°	2682	2657	2633	2611	2620	1235
35°	2292	2262	2243	2251	2272	1432
45°	1836	1813	1820	1854	1877	1416
55°	1348	1332	1360	1403	1419	1204
65°	841	837	864	880	884	831
75°	353	355	367	354	345	379
85°	41	44	52	60	63	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3129.8	3129.8	3129.8	3129.8	3129.8
2.5°	3137.6	3124.9	3129.8	3118.2	3116.2
5°	3123.4	3110.4	3113.3	3098.4	3102.7
7.5°	3099.2	3085.2	3084.3	3067.9	3071.7
10°	3066.3	3049.7	3045.2	3026.3	3029.2
12.5°	3022.7	3005.3	2996.1	2974.6	2979.4
15°	2971.2	2951.9	2937.1	2915.4	2919.8
17.5°	2911.6	2890.2	2872.2	2847.2	2854.4
20°	2843.3	2820.1	2798.6	2772.1	2781.5
22.5°	2766.7	2742.2	2717.6	2693.6	2702.9
25°	2682.4	2657.3	2632.9	2610.9	2620.5
27.5°	2593.7	2565.7	2541.0	2524.5	2535.4
30°	2497.6	2468.6	2444.5	2433.5	2449.0
32.5°	2396.3	2367.5	2345.6	2343.9	2361.9
35°	2292.1	2261.7	2243.3	2251.2	2272.2
37.5°	2180.1	2154.3	2140.6	2157.8	2179.2
40°	2069.2	2042.2	2035.4	2058.9	2081.4
42.5°	1954.3	1930.2	1928.8	1959.6	1980.5
45°	1835.5	1812.9	1819.7	1854.0	1876.8
47.5°	1718.6	1695.6	1708.7	1746.3	1771.1
50°	1594.6	1575.4	1593.7	1636.2	1658.8
52.5°	1471.1	1452.8	1477.4	1522.4	1544.3
55°	1348.4	1331.6	1359.7	1403.4	1419.2
57.5°	1221.3	1211.0	1240.4	1278.9	1295.4
60°	1094.9	1085.8	1115.8	1151.9	1166.8
62.5°	968.3	962.3	991.2	1020.7	1026.0
65°	840.8	836.8	864.1	880.5	883.9
67.5°	712.0	711.7	737.0	746.1	746.0
70°	586.4	584.6	608.4	611.6	605.4
72.5°	464.2	466.3	482.3	479.8	469.4
75°	352.7	354.9	366.8	354.5	344.8
77.5°	249.0	251.1	257.2	243.4	237.6
80°	159.4	164.3	162.7	156.7	152.7
82.5°	89.2	94.4	92.9	100.5	103.9
85°	41.2	44.5	51.7	59.9	63.3
87.5°	14.1	16.9	21.3	22.8	21.2
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	18.34	19.92	18.70	20.23	20.55	18.72	20.31	19.09	20.62	20.93
	3H	19.78	21.21	20.16	21.54	21.90	20.14	21.57	20.52	21.89	22.25
	4H	20.20	21.54	20.60	21.89	22.27	20.51	21.85	20.91	22.20	22.58
	6H	20.40	21.64	20.82	22.01	22.40	20.67	21.91	21.09	22.28	22.67
	8H	20.43	21.61	20.86	22.00	22.40	20.70	21.88	21.13	22.27	22.67
	12H	20.43	21.56	20.86	21.94	22.37	20.72	21.84	21.15	22.23	22.65
4H	2H	18.92	20.26	19.32	20.61	20.98	19.23	20.57	19.63	20.92	21.29
	3H	20.54	21.65	20.95	22.05	22.45	20.84	21.95	21.25	22.35	22.75
	4H	21.05	22.05	21.48	22.46	22.90	21.29	22.29	21.73	22.71	23.15
	6H	21.32	22.19	21.78	22.63	23.09	21.53	22.39	21.98	22.84	23.29
	8H	21.36	22.18	21.82	22.62	23.08	21.57	22.38	22.03	22.83	23.29
	12H	21.37	22.10	21.86	22.58	23.05	21.60	22.33	22.08	22.81	23.28
8H	4H	21.23	22.04	21.69	22.49	22.95	21.46	22.27	21.92	22.71	23.18
	6H	21.56	22.23	22.05	22.72	23.20	21.74	22.41	22.23	22.90	23.37
	8H	21.62	22.22	22.14	22.73	23.22	21.81	22.41	22.32	22.92	23.40
	12H	21.66	22.19	22.17	22.68	23.24	21.87	22.40	22.38	22.89	23.46
12H	4H	21.23	21.95	21.71	22.43	22.90	21.45	22.18	21.93	22.66	23.13
	6H	21.55	22.15	22.06	22.66	23.15	21.73	22.33	22.24	22.84	23.33
	8H	21.65	22.18	22.16	22.67	23.24	21.83	22.36	22.34	22.86	23.42

END OF REPORT