

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: P1498850

Luminaire Tested: MAE-G-2-120-3STD-LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498850
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-LO-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

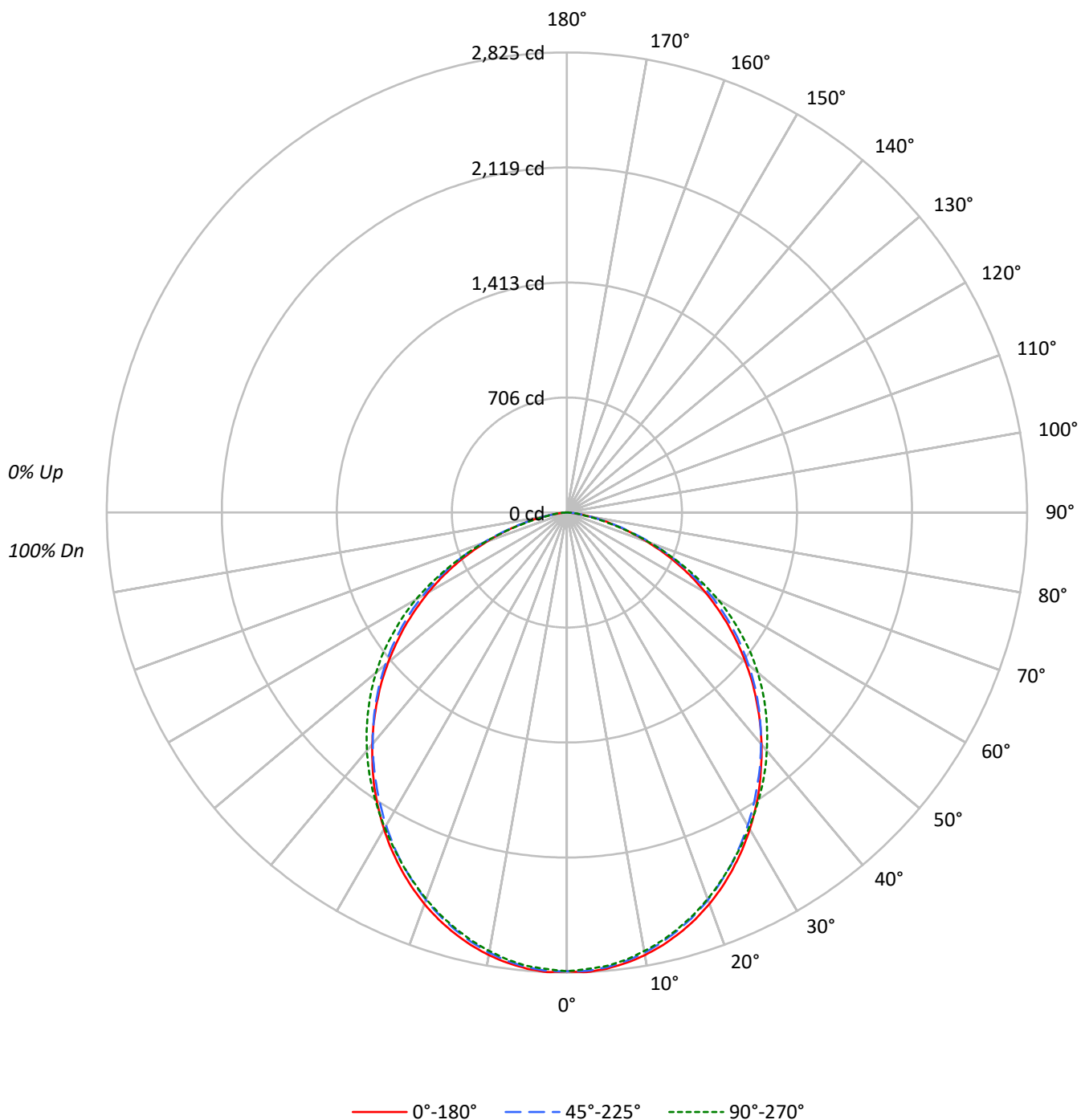
Lumens per Lamp: N/A
Luminaire Lumens: 6971.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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
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	93	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°	7582	7582	7582
5°	7596	7573	7552
10°	7542	7501	7474
15°	7450	7388	7366
20°	7327	7251	7233
25°	7165	7085	7084
30°	6979	6896	6947
35°	6769	6702	6832
40°	6531	6513	6708
45°	6274	6318	6569
50°	5994	6095	6402
55°	5678	5835	6142
60°	5285	5498	5779
65°	4796	5031	5126
70°	4124	4342	4258
75°	3270	3396	3082
80°	2190	2142	1884
85°	1112	1269	1491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6569 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	3.8
10°-20°	747.2	10.7
20°-30°	1099.9	15.8
30°-40°	1283.5	18.4
40°-50°	1289.1	18.5
50°-60°	1115.8	16.0
60°-70°	773.9	11.1
70°-80°	340.5	4.9
80°-90°	55.6	0.8
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°	2112.6	30.3
0°-40°	3396.0	48.7
0°-60°	5801.0	83.2
0°-90°	6971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6971.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2817	2817	2817	2817	2817	
5°	2812	2799	2804	2792	2796	267
15°	2674	2658	2652	2639	2644	754
25°	2413	2395	2386	2375	2386	1111
35°	2060	2041	2040	2057	2080	1287
45°	1649	1638	1660	1701	1726	1272
55°	1210	1204	1244	1292	1309	1080
65°	753	757	790	803	805	744
75°	314	320	327	308	296	338
85°	36	38	41	46	48	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2817.4	2817.4	2817.4	2817.4	2817.4
2.5°	2824.9	2811.9	2817.4	2808.8	2805.9
5°	2812.0	2799.1	2803.5	2792.3	2795.8
7.5°	2790.0	2776.8	2778.7	2767.0	2770.4
10°	2760.3	2745.1	2745.0	2732.2	2735.1
12.5°	2720.7	2705.6	2703.0	2688.8	2693.9
15°	2674.3	2658.1	2652.0	2639.1	2644.0
17.5°	2620.4	2603.2	2596.1	2580.7	2588.3
20°	2558.5	2540.6	2532.0	2515.4	2525.7
22.5°	2489.3	2471.1	2460.6	2447.0	2457.7
25°	2413.0	2395.4	2386.3	2374.6	2386.0
27.5°	2332.8	2313.4	2305.1	2298.9	2311.3
30°	2246.0	2226.4	2219.4	2218.4	2235.6
32.5°	2154.3	2135.7	2131.2	2139.0	2158.8
35°	2060.5	2041.0	2040.1	2056.9	2079.7
37.5°	1959.4	1944.4	1948.3	1973.8	1997.2
40°	1859.3	1843.6	1854.1	1885.4	1909.7
42.5°	1756.0	1743.0	1758.3	1796.5	1819.4
45°	1648.7	1637.6	1660.2	1701.3	1726.2
47.5°	1543.9	1531.9	1559.9	1604.1	1630.7
50°	1431.7	1423.5	1455.9	1504.4	1529.3
52.5°	1321.0	1313.0	1350.6	1401.1	1424.7
55°	1210.3	1203.9	1243.7	1292.4	1309.2
57.5°	1095.8	1095.1	1135.1	1177.2	1194.4
60°	982.0	982.2	1021.5	1059.1	1073.8
62.5°	868.1	871.0	907.2	936.2	939.9
65°	753.2	757.3	790.1	803.1	805.0
67.5°	637.2	644.1	672.3	676.1	674.4
70°	524.1	529.1	551.9	549.5	541.2
72.5°	414.3	421.7	434.0	425.4	413.2
75°	314.5	320.4	326.6	308.4	296.4
77.5°	221.4	225.5	225.0	205.7	197.4
80°	141.3	145.8	138.2	127.0	121.6
82.5°	78.4	82.3	75.7	79.2	81.1
85°	36.0	37.6	41.1	46.4	48.3
87.5°	12.3	14.1	16.7	17.6	16.3
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	17.97	19.55	18.33	19.87	20.18	18.49	20.07	18.85	20.39	20.70
	3H	19.41	20.83	19.79	21.16	21.52	19.86	21.28	20.24	21.61	21.97
	4H	19.82	21.16	20.22	21.51	21.88	20.19	21.53	20.59	21.88	22.25
	6H	20.02	21.25	20.43	21.62	22.01	20.32	21.55	20.73	21.92	22.31
	8H	20.04	21.22	20.47	21.61	22.01	20.33	21.51	20.75	21.90	22.30
	12H	20.04	21.16	20.47	21.55	21.97	20.33	21.46	20.76	21.84	22.27
4H	2H	18.57	19.91	18.97	20.26	20.63	18.99	20.33	19.39	20.68	21.05
	3H	20.18	21.29	20.59	21.69	22.09	20.54	21.65	20.95	22.05	22.45
	4H	20.68	21.68	21.11	22.09	22.53	20.96	21.95	21.39	22.37	22.81
	6H	20.95	21.82	21.40	22.26	22.72	21.14	22.01	21.59	22.45	22.91
	8H	20.98	21.80	21.45	22.24	22.71	21.16	21.98	21.63	22.42	22.88
	12H	20.99	21.72	21.47	22.20	22.67	21.18	21.91	21.66	22.38	22.85
8H	4H	20.86	21.67	21.32	22.11	22.58	21.11	21.92	21.57	22.36	22.83
	6H	21.17	21.84	21.67	22.33	22.81	21.33	22.00	21.83	22.49	22.96
	8H	21.23	21.83	21.74	22.34	22.83	21.38	21.97	21.89	22.48	22.97
	12H	21.26	21.79	21.77	22.28	22.84	21.42	21.95	21.93	22.44	23.00
12H	4H	20.85	21.57	21.33	22.05	22.52	21.10	21.83	21.58	22.30	22.77
	6H	21.16	21.76	21.67	22.27	22.76	21.32	21.92	21.83	22.43	22.91
	8H	21.25	21.78	21.76	22.27	22.83	21.40	21.92	21.90	22.42	22.98