

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: P1498727

Luminaire Tested: MAE-G-2-120-3LO-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498727
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-2-120-3LO-HI-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

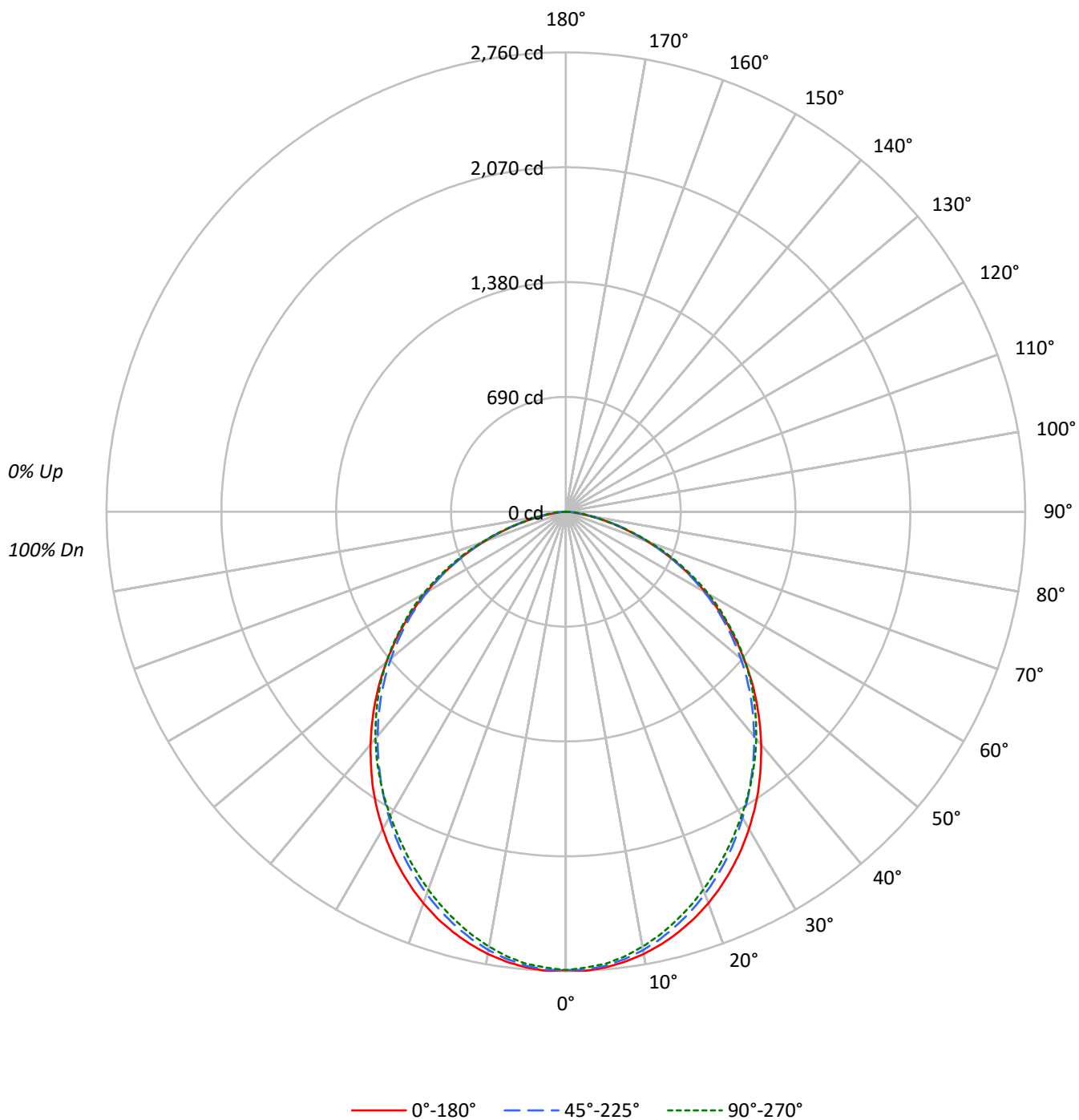
Lumens per Lamp: N/A
Luminaire Lumens: 6701.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 81.9
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	30	10	50	30	10
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	87	85		
2	100	92	86	80	98	90	85	79	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	56	66	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	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	34	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°	7411	7411	7411
5°	7423	7396	7364
10°	7373	7307	7251
15°	7285	7167	7095
20°	7169	6999	6918
25°	7015	6809	6731
30°	6839	6598	6557
35°	6639	6387	6406
40°	6413	6181	6251
45°	6166	5973	6083
50°	5897	5742	5892
55°	5590	5480	5644
60°	5214	5152	5345
65°	4746	4728	4866
70°	4102	4164	4233
75°	3272	3411	3363
80°	2227	2402	2438
85°	1167	1646	2103

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.9	3.9
10°-20°	724.8	10.8
20°-30°	1059.3	15.8
30°-40°	1227.5	18.3
40°-50°	1224.6	18.3
50°-60°	1054.7	15.7
60°-70°	739.0	11.0
70°-80°	345.6	5.2
80°-90°	66.5	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°	2043.1	30.5
0°-40°	3270.6	48.8
0°-60°	5549.9	82.8
0°-90°	6701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6701.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2754	2754	2754	2754	2754	
5°	2748	2738	2738	2722	2726	261
15°	2615	2596	2573	2544	2547	737
25°	2363	2333	2293	2262	2267	1088
35°	2021	1983	1944	1937	1950	1263
45°	1620	1587	1569	1585	1598	1250
55°	1192	1164	1168	1193	1203	1064
65°	745	730	742	760	764	737
75°	315	311	328	328	324	338
85°	38	43	53	64	68	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2753.9	2753.9	2753.9	2753.9	2753.9
2.5°	2760.1	2751.3	2753.9	2741.1	2741.0
5°	2748.1	2738.2	2738.1	2721.8	2726.1
7.5°	2726.9	2715.4	2710.7	2691.9	2695.4
10°	2698.2	2683.8	2674.0	2651.3	2653.5
12.5°	2660.1	2644.0	2627.9	2601.2	2604.4
15°	2615.0	2596.4	2572.7	2544.3	2546.7
17.5°	2562.9	2541.2	2512.1	2479.9	2484.6
20°	2503.3	2478.7	2444.1	2410.4	2415.9
22.5°	2436.3	2409.1	2370.7	2338.2	2342.9
25°	2362.6	2333.4	2293.3	2262.2	2267.0
27.5°	2285.0	2252.2	2210.1	2183.5	2189.0
30°	2201.1	2166.2	2123.5	2101.3	2110.2
32.5°	2112.4	2076.6	2035.4	2020.5	2031.3
35°	2021.1	1982.9	1944.2	1937.1	1950.0
37.5°	1923.0	1888.2	1852.7	1853.6	1866.4
40°	1825.5	1789.5	1759.5	1765.5	1779.4
42.5°	1724.4	1690.7	1665.5	1677.5	1690.0
45°	1620.3	1587.2	1569.4	1584.7	1598.5
47.5°	1516.9	1484.2	1472.2	1490.5	1506.1
50°	1408.5	1378.5	1371.6	1394.4	1407.5
52.5°	1299.1	1270.8	1270.5	1295.4	1309.0
55°	1191.6	1164.2	1168.0	1193.1	1203.0
57.5°	1079.9	1058.4	1064.6	1087.9	1099.2
60°	968.7	948.7	957.3	981.5	993.1
62.5°	857.1	840.0	850.6	873.2	879.4
65°	745.4	730.2	742.5	759.6	764.2
67.5°	632.0	621.2	635.8	650.0	652.4
70°	521.3	510.4	529.2	539.6	538.0
72.5°	413.6	407.6	424.6	431.4	426.5
75°	314.7	310.9	328.1	327.6	323.5
77.5°	223.0	221.8	235.7	233.8	232.8
80°	143.7	147.6	155.0	158.0	157.3
82.5°	81.1	87.1	93.1	104.6	109.4
85°	37.8	42.7	53.3	63.7	68.1
87.5°	12.8	16.5	22.2	24.1	22.8
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	17.89	19.48	18.26	19.79	20.11	18.07	19.66	18.44	19.97	20.29
	3H	19.35	20.78	19.73	21.11	21.47	19.57	21.00	19.95	21.33	21.69
	4H	19.78	21.12	20.18	21.47	21.85	20.01	21.34	20.40	21.69	22.07
	6H	19.99	21.23	20.40	21.60	21.99	20.23	21.47	20.64	21.83	22.22
	8H	20.02	21.20	20.45	21.59	21.99	20.28	21.46	20.71	21.85	22.25
	12H	20.02	21.15	20.45	21.53	21.96	20.32	21.45	20.75	21.83	22.26
4H	2H	18.45	19.79	18.85	20.14	20.51	18.60	19.94	19.00	20.28	20.66
	3H	20.09	21.20	20.50	21.60	22.00	20.29	21.40	20.70	21.80	22.20
	4H	20.60	21.61	21.04	22.02	22.46	20.82	21.82	21.25	22.23	22.67
	6H	20.89	21.76	21.35	22.21	22.66	21.12	22.00	21.58	22.44	22.90
	8H	20.94	21.75	21.40	22.20	22.66	21.20	22.02	21.66	22.46	22.93
	12H	20.95	21.68	21.43	22.16	22.63	21.26	21.99	21.74	22.47	22.94
8H	4H	20.80	21.62	21.26	22.06	22.53	20.99	21.81	21.46	22.25	22.72
	6H	21.15	21.82	21.64	22.31	22.79	21.36	22.04	21.86	22.53	23.00
	8H	21.22	21.82	21.73	22.33	22.82	21.48	22.08	21.99	22.59	23.08
	12H	21.26	21.79	21.77	22.28	22.85	21.58	22.11	22.09	22.61	23.17
12H	4H	20.80	21.53	21.28	22.01	22.48	20.99	21.72	21.47	22.20	22.67
	6H	21.15	21.75	21.66	22.26	22.75	21.36	21.97	21.87	22.47	22.96
	8H	21.26	21.79	21.77	22.28	22.85	21.52	22.05	22.02	22.54	23.10

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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