

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: P1498739

Luminaire Tested: MAE-G-2-120-3LO-HI-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498739
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-50-90-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

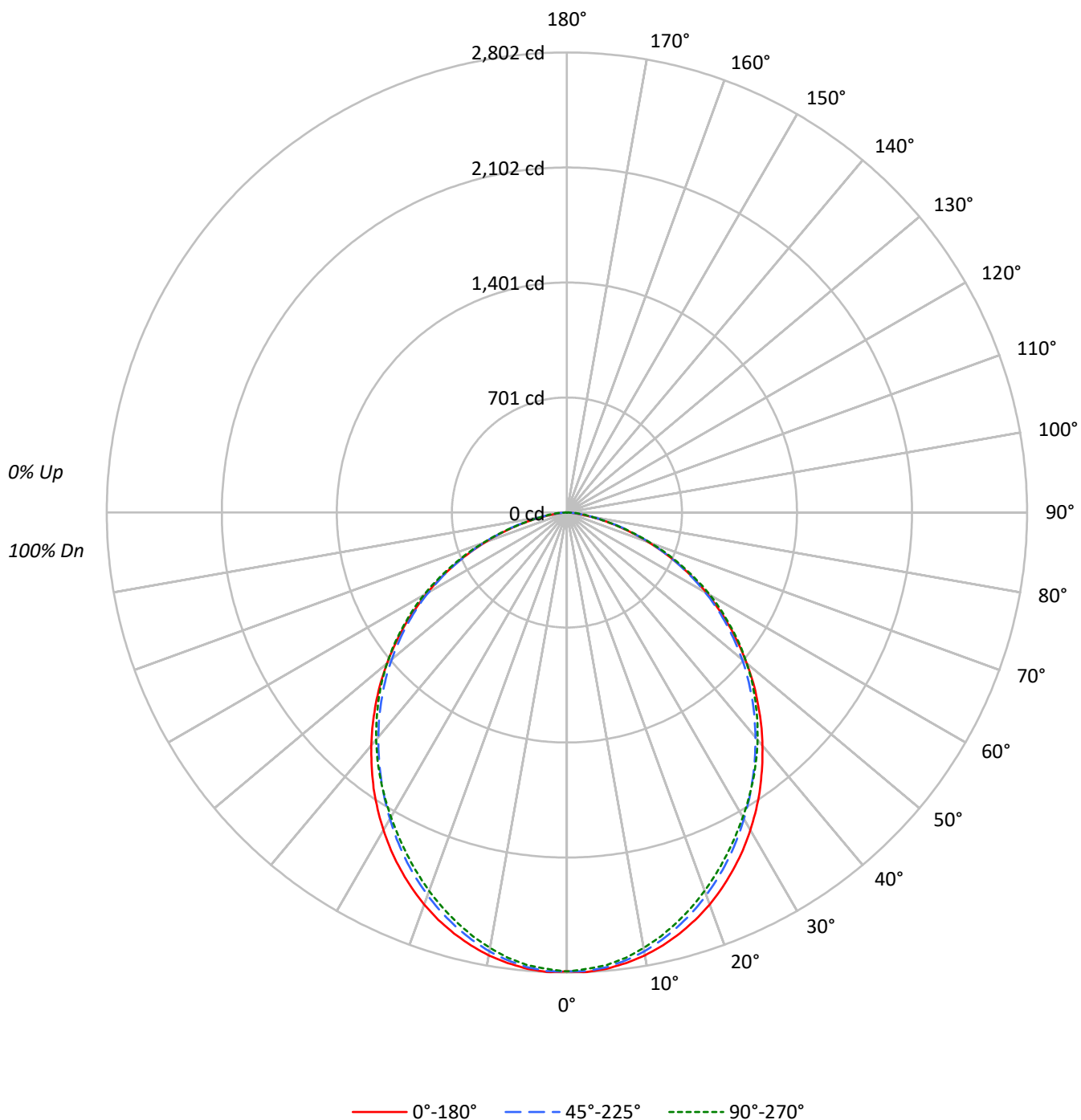
Lumens per Lamp: N/A
Luminaire Lumens: 6802.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	80	98	90	85	79	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	56		66	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	41	35	61	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	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7522	7522	7522
5°	7535	7508	7475
10°	7484	7417	7360
15°	7395	7276	7202
20°	7277	7105	7023
25°	7121	6912	6833
30°	6942	6698	6656
35°	6739	6483	6502
40°	6509	6274	6345
45°	6259	6062	6175
50°	5985	5829	5982
55°	5674	5563	5729
60°	5292	5230	5425
65°	4818	4799	4940
70°	4163	4227	4297
75°	3322	3462	3414
80°	2259	2438	2473
85°	1186	1670	2137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6259 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.8	3.9
10°-20°	735.8	10.8
20°-30°	1075.3	15.8
30°-40°	1246.0	18.3
40°-50°	1243.0	18.3
50°-60°	1070.6	15.7
60°-70°	750.1	11.0
70°-80°	350.8	5.2
80°-90°	67.5	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°	2073.9	30.5
0°-40°	3319.9	48.8
0°-60°	5633.6	82.8
0°-90°	6802.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6802.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2795	2795	2795	2795	2795	
5°	2789	2779	2779	2763	2767	265
15°	2654	2635	2612	2583	2585	748
25°	2398	2368	2328	2296	2301	1104
35°	2052	2013	1974	1966	1979	1282
45°	1645	1611	1593	1609	1623	1269
55°	1210	1182	1186	1211	1221	1080
65°	757	741	754	771	776	748
75°	320	316	333	332	328	343
85°	38	43	54	64	69	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2795.4	2795.4	2795.4	2795.4	2795.4
2.5°	2801.7	2792.8	2795.4	2782.4	2782.3
5°	2789.4	2779.4	2779.4	2762.8	2767.2
7.5°	2767.9	2756.3	2751.6	2732.4	2736.0
10°	2738.9	2724.2	2714.2	2691.3	2693.5
12.5°	2700.2	2683.8	2667.5	2640.4	2643.7
15°	2654.4	2635.4	2611.6	2582.6	2585.0
17.5°	2601.6	2579.5	2550.0	2517.3	2522.0
20°	2541.0	2516.0	2480.9	2446.8	2452.4
22.5°	2473.0	2445.3	2406.4	2373.4	2378.2
25°	2398.2	2368.5	2327.9	2296.3	2301.2
27.5°	2319.5	2286.2	2243.4	2216.4	2222.0
30°	2234.2	2198.9	2155.6	2133.0	2142.1
32.5°	2144.2	2107.9	2066.1	2050.9	2061.8
35°	2051.5	2012.8	1973.5	1966.3	1979.3
37.5°	1952.0	1916.7	1880.7	1881.5	1894.5
40°	1852.9	1816.4	1786.0	1792.2	1806.3
42.5°	1750.5	1716.1	1690.5	1702.8	1715.5
45°	1644.6	1611.1	1593.0	1608.6	1622.6
47.5°	1539.8	1506.5	1494.4	1513.1	1528.8
50°	1429.7	1399.4	1392.3	1415.5	1428.8
52.5°	1318.7	1289.9	1289.6	1315.0	1328.8
55°	1209.5	1181.8	1185.7	1211.1	1221.2
57.5°	1096.2	1074.3	1080.7	1104.3	1115.8
60°	983.3	962.9	971.8	996.3	1008.0
62.5°	870.0	852.6	863.4	886.2	892.5
65°	756.6	741.2	753.7	770.9	775.8
67.5°	641.5	630.6	645.4	659.8	662.2
70°	529.1	518.0	537.2	547.7	546.1
72.5°	419.9	413.7	431.1	438.0	433.0
75°	319.5	315.6	333.0	332.4	328.4
77.5°	226.4	225.1	239.3	237.3	236.3
80°	145.8	149.8	157.3	160.4	159.6
82.5°	82.3	88.4	94.5	106.2	111.0
85°	38.4	43.3	54.1	64.5	69.2
87.5°	13.0	16.8	22.6	24.5	23.1
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	17.94	19.53	18.31	19.84	20.16	18.13	19.71	18.49	20.02	20.34
	3H	19.41	20.83	19.78	21.16	21.52	19.62	21.05	20.00	21.38	21.74
	4H	19.83	21.17	20.23	21.52	21.90	20.06	21.40	20.46	21.74	22.12
	6H	20.04	21.28	20.46	21.65	22.04	20.28	21.52	20.69	21.89	22.28
	8H	20.07	21.25	20.50	21.64	22.04	20.34	21.52	20.76	21.90	22.30
	12H	20.07	21.20	20.50	21.58	22.01	20.37	21.50	20.80	21.88	22.31
4H	2H	18.50	19.84	18.90	20.19	20.57	18.65	19.99	19.05	20.34	20.71
	3H	20.14	21.26	20.55	21.65	22.05	20.34	21.45	20.75	21.85	22.25
	4H	20.66	21.66	21.09	22.07	22.51	20.87	21.87	21.30	22.28	22.72
	6H	20.94	21.82	21.40	22.26	22.72	21.18	22.05	21.63	22.49	22.95
	8H	20.99	21.80	21.45	22.25	22.71	21.25	22.07	21.71	22.51	22.98
	12H	21.00	21.73	21.49	22.21	22.68	21.31	22.04	21.79	22.52	22.99
8H	4H	20.85	21.67	21.32	22.11	22.58	21.05	21.86	21.51	22.30	22.77
	6H	21.20	21.87	21.69	22.36	22.84	21.42	22.09	21.91	22.58	23.05
	8H	21.27	21.88	21.78	22.38	22.87	21.53	22.13	22.04	22.64	23.13
	12H	21.31	21.84	21.82	22.34	22.90	21.63	22.17	22.14	22.66	23.22
12H	4H	20.86	21.58	21.34	22.06	22.53	21.04	21.77	21.52	22.25	22.72
	6H	21.20	21.81	21.71	22.31	22.80	21.41	22.02	21.93	22.53	23.01
	8H	21.31	21.84	21.82	22.34	22.90	21.57	22.10	22.08	22.59	23.15