

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: P1498721

Luminaire Tested: MAE-G-2-120-3LO-HI-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498721
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-30-90-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

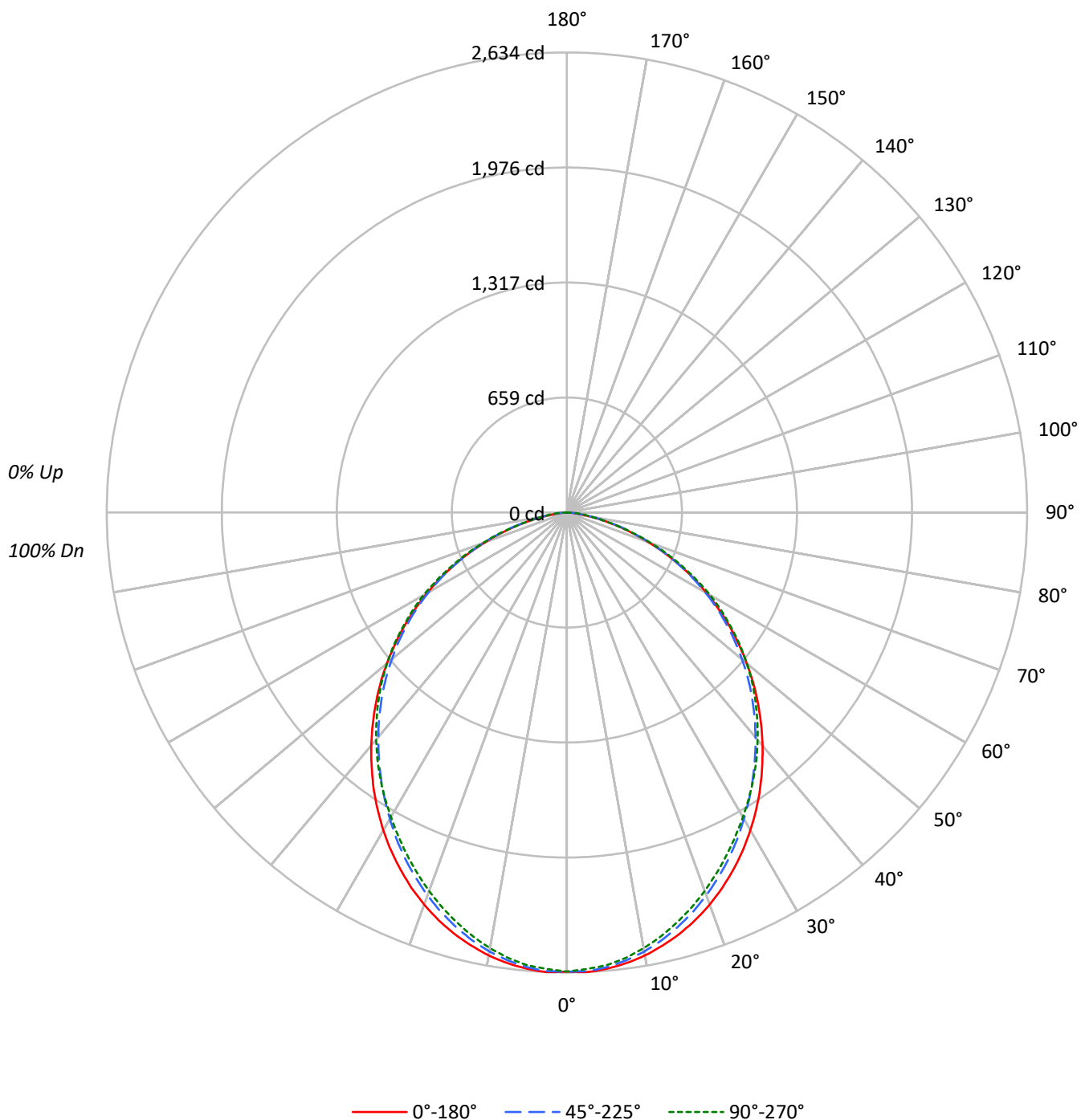
Lumens per Lamp: N/A
Luminaire Lumens: 6396.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	7074	7074	7074
5°	7085	7060	7029
10°	7037	6974	6921
15°	6954	6841	6772
20°	6842	6681	6604
25°	6696	6500	6425
30°	6528	6298	6259
35°	6337	6096	6115
40°	6120	5899	5966
45°	5885	5700	5806
50°	5628	5481	5624
55°	5336	5231	5387
60°	4976	4918	5101
65°	4530	4513	4645
70°	3914	3974	4040
75°	3123	3255	3211
80°	2125	2292	2325
85°	1115	1572	2007

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5885 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.2	3.9
10°-20°	691.9	10.8
20°-30°	1011.1	15.8
30°-40°	1171.6	18.3
40°-50°	1168.8	18.3
50°-60°	1006.7	15.7
60°-70°	705.4	11.0
70°-80°	329.8	5.2
80°-90°	63.5	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°	1950.1	30.5
0°-40°	3121.8	48.8
0°-60°	5297.3	82.8
0°-90°	6396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2629	2629	2629	2629	2629	
5°	2623	2614	2614	2598	2602	249
15°	2496	2478	2456	2428	2431	703
25°	2255	2227	2189	2159	2164	1038
35°	1929	1893	1856	1849	1861	1205
45°	1546	1515	1498	1513	1526	1193
55°	1137	1111	1115	1139	1148	1015
65°	712	697	709	725	730	703
75°	300	297	313	313	309	323
85°	36	41	51	61	65	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2628.6	2628.6	2628.6	2628.6	2628.6
2.5°	2634.4	2626.1	2628.6	2616.4	2616.2
5°	2623.0	2613.5	2613.5	2597.9	2602.1
7.5°	2602.8	2591.8	2587.4	2569.4	2572.7
10°	2575.4	2561.7	2552.3	2530.7	2532.7
12.5°	2539.0	2523.6	2508.2	2482.9	2485.9
15°	2496.0	2478.2	2455.7	2428.5	2430.7
17.5°	2446.3	2425.5	2397.8	2367.0	2371.6
20°	2389.4	2365.8	2332.9	2300.7	2306.0
22.5°	2325.4	2299.4	2262.8	2231.8	2236.3
25°	2255.1	2227.1	2189.0	2159.3	2163.9
27.5°	2181.0	2149.8	2109.6	2084.1	2089.4
30°	2100.9	2067.6	2026.8	2005.7	2014.2
32.5°	2016.3	1982.1	1942.8	1928.6	1938.8
35°	1929.0	1892.7	1855.7	1849.0	1861.3
37.5°	1835.4	1802.3	1768.4	1769.1	1781.4
40°	1742.3	1708.0	1679.4	1685.2	1698.4
42.5°	1645.9	1613.7	1589.6	1601.1	1613.1
45°	1546.5	1515.0	1497.9	1512.6	1525.7
47.5°	1447.9	1416.6	1405.2	1422.7	1437.5
50°	1344.4	1315.9	1309.3	1331.0	1343.4
52.5°	1239.9	1212.9	1212.7	1236.4	1249.5
55°	1137.4	1111.2	1114.9	1138.8	1148.3
57.5°	1030.8	1010.2	1016.2	1038.4	1049.2
60°	924.6	905.5	913.8	936.8	947.8
62.5°	818.1	801.8	811.9	833.4	839.3
65°	711.5	697.0	708.7	725.0	729.5
67.5°	603.1	592.9	606.9	620.4	622.7
70°	497.5	487.1	505.1	515.1	513.5
72.5°	394.8	389.0	405.3	411.8	407.2
75°	300.4	296.7	313.1	312.6	308.8
77.5°	212.9	211.6	224.9	223.1	222.2
80°	137.1	140.9	147.9	150.8	150.0
82.5°	77.4	83.0	88.9	99.8	104.4
85°	36.1	40.8	50.9	60.7	65.0
87.5°	12.3	15.8	21.2	23.0	21.7
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	17.73	19.32	18.10	19.63	19.94	17.91	19.50	18.28	19.81	20.13
	3H	19.19	20.62	19.57	20.94	21.31	19.41	20.84	19.79	21.16	21.52
	4H	19.62	20.96	20.02	21.31	21.68	19.84	21.18	20.24	21.53	21.91
	6H	19.83	21.07	20.24	21.43	21.82	20.07	21.31	20.48	21.67	22.06
	8H	19.86	21.04	20.28	21.43	21.83	20.12	21.30	20.55	21.69	22.09
	12H	19.86	20.99	20.29	21.37	21.80	20.16	21.28	20.58	21.67	22.10
4H	2H	18.29	19.63	18.69	19.97	20.35	18.44	19.77	18.83	20.12	20.50
	3H	19.93	21.04	20.34	21.44	21.84	20.13	21.24	20.54	21.64	22.04
	4H	20.44	21.44	20.87	21.86	22.30	20.65	21.66	21.09	22.07	22.51
	6H	20.73	21.60	21.19	22.04	22.50	20.96	21.83	21.42	22.28	22.73
	8H	20.78	21.59	21.24	22.03	22.50	21.04	21.85	21.50	22.30	22.76
	12H	20.79	21.52	21.27	22.00	22.47	21.10	21.83	21.58	22.30	22.77
8H	4H	20.64	21.45	21.10	21.90	22.36	20.83	21.65	21.29	22.09	22.56
	6H	20.99	21.66	21.48	22.15	22.62	21.20	21.87	21.70	22.36	22.84
	8H	21.06	21.66	21.57	22.17	22.66	21.32	21.92	21.83	22.43	22.92
	12H	21.10	21.63	21.61	22.12	22.68	21.42	21.95	21.93	22.44	23.01
12H	4H	20.64	21.37	21.12	21.85	22.32	20.83	21.56	21.31	22.04	22.51
	6H	20.99	21.59	21.50	22.10	22.59	21.20	21.80	21.71	22.31	22.80
	8H	21.10	21.63	21.61	22.12	22.68	21.35	21.89	21.86	22.38	22.94