

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: P1498772

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498772
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-STD-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

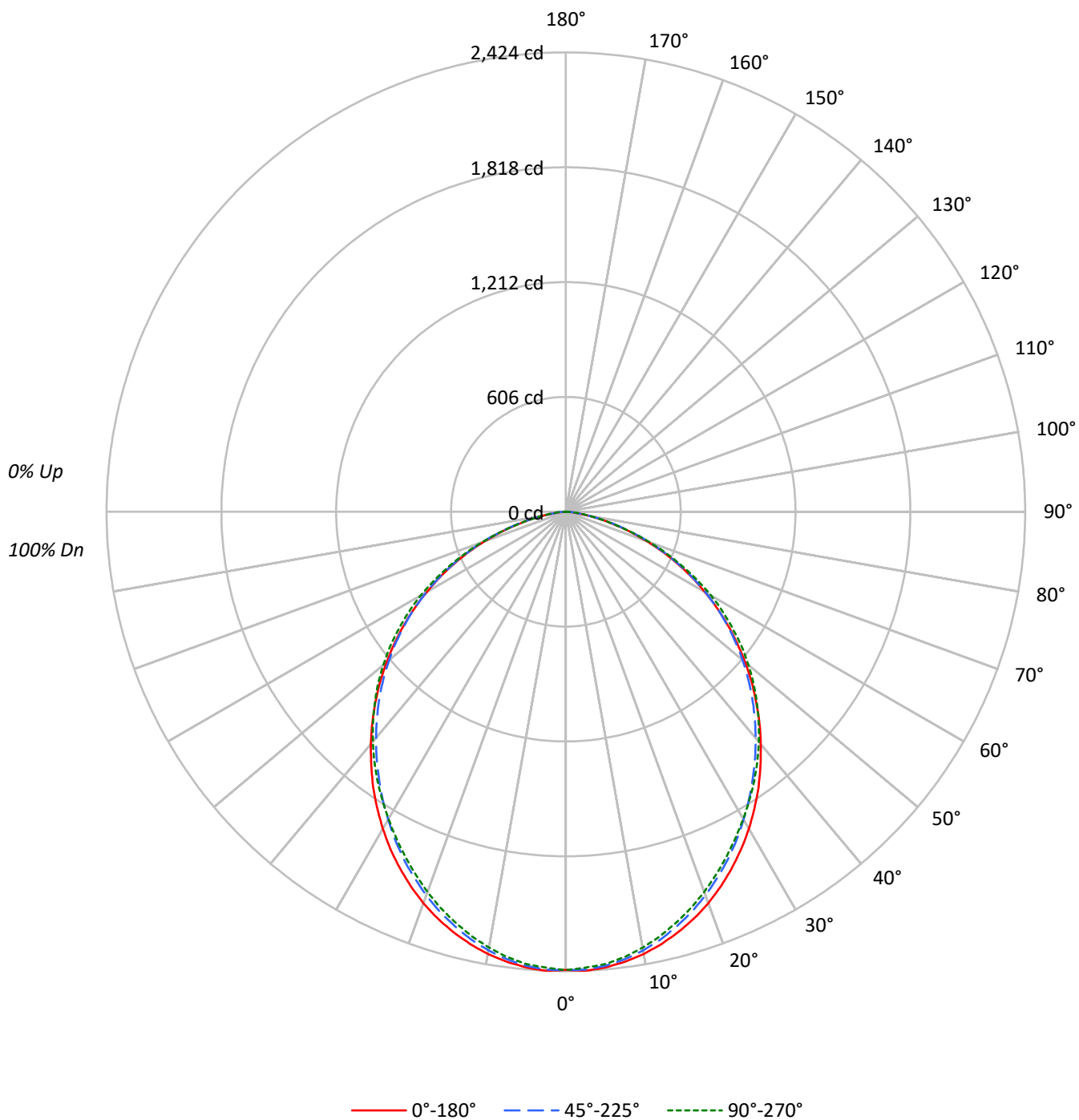
Lumens per Lamp: N/A
Luminaire Lumens: 5912.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 71.5
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	42	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6507	6507	6507
5°	6519	6496	6471
10°	6474	6422	6380
15°	6396	6307	6256
20°	6293	6168	6113
25°	6157	6008	5959
30°	6001	5829	5815
35°	5824	5649	5692
40°	5624	5473	5565
45°	5406	5294	5425
50°	5169	5096	5264
55°	4899	4868	5045
60°	4566	4579	4768
65°	4153	4198	4309
70°	3584	3676	3699
75°	2855	2973	2868
80°	1932	2032	1991
85°	1007	1346	1689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5425 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.5	3.8
10°-20°	637.9	10.8
20°-30°	934.1	15.8
30°-40°	1084.5	18.3
40°-50°	1084.0	18.3
50°-60°	935.0	15.8
60°-70°	653.2	11.0
70°-80°	300.3	5.1
80°-90°	55.4	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°	1799.5	30.4
0°-40°	2884.0	48.8
0°-60°	4903.1	82.9
0°-90°	5912.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5912.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2418	2418	2418	2418	2418	
5°	2413	2404	2405	2392	2395	229
15°	2296	2280	2264	2243	2246	647
25°	2074	2051	2024	2001	2007	955
35°	1773	1744	1720	1719	1733	1108
45°	1420	1397	1391	1411	1426	1096
55°	1044	1025	1038	1065	1075	932
65°	652	644	659	673	677	645
75°	275	274	286	281	276	295
85°	33	36	44	51	55	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2418.2	2418.2	2418.2	2418.2	2418.2
2.5°	2423.9	2415.2	2418.2	2408.1	2407.2
5°	2413.2	2403.8	2404.9	2391.8	2395.4
7.5°	2394.6	2384.1	2381.6	2366.9	2369.9
10°	2369.2	2356.5	2350.3	2332.9	2334.9
12.5°	2335.6	2321.8	2311.0	2290.8	2294.0
15°	2296.0	2280.3	2264.0	2242.8	2245.5
17.5°	2250.1	2232.2	2212.1	2188.1	2193.0
20°	2197.5	2177.6	2153.8	2128.5	2134.5
22.5°	2138.5	2116.9	2090.2	2066.4	2072.0
25°	2073.6	2050.9	2023.5	2001.1	2006.8
27.5°	2005.3	1979.9	1951.4	1933.0	1939.5
30°	1931.4	1904.6	1876.0	1861.8	1871.5
32.5°	1853.3	1826.2	1799.1	1791.6	1803.1
35°	1772.9	1744.2	1719.5	1719.2	1732.8
37.5°	1686.6	1661.1	1639.6	1646.3	1660.0
40°	1600.9	1574.4	1558.0	1569.4	1584.1
42.5°	1512.2	1487.7	1475.5	1492.4	1505.8
45°	1420.5	1397.1	1391.2	1410.9	1425.6
47.5°	1330.1	1306.5	1305.7	1327.9	1344.2
50°	1234.6	1213.7	1217.2	1243.3	1257.5
52.5°	1138.7	1119.0	1127.9	1155.8	1170.1
55°	1044.2	1025.4	1037.5	1065.0	1075.4
57.5°	946.1	932.3	945.9	970.8	982.1
60°	848.4	835.8	850.8	875.1	885.9
62.5°	750.5	740.4	755.8	777.1	781.9
65°	652.3	643.7	659.3	673.3	676.7
67.5°	552.6	547.5	563.6	573.4	574.5
70°	455.5	449.8	467.2	473.2	470.2
72.5°	361.1	359.0	372.8	375.0	369.0
75°	274.6	273.5	285.9	281.2	275.8
77.5°	194.2	194.4	203.0	197.1	194.5
80°	124.7	128.4	131.1	130.4	128.5
82.5°	70.1	74.7	77.0	85.1	88.6
85°	32.6	36.1	43.6	51.3	54.7
87.5°	11.1	13.9	18.0	19.5	18.3
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	17.44	19.02	17.80	19.34	19.65	17.72	19.30	18.08	19.62	19.93
	3H	18.90	20.32	19.27	20.65	21.01	19.18	20.60	19.56	20.93	21.29
	4H	19.32	20.66	19.72	21.00	21.38	19.58	20.92	19.98	21.27	21.65
	6H	19.53	20.76	19.94	21.13	21.52	19.78	21.01	20.19	21.38	21.77
	8H	19.55	20.73	19.98	21.12	21.52	19.82	21.00	20.24	21.39	21.79
	12H	19.55	20.68	19.98	21.06	21.49	19.84	20.97	20.27	21.35	21.78
4H	2H	18.01	19.35	18.41	19.70	20.07	18.24	19.57	18.63	19.92	20.30
	3H	19.64	20.75	20.05	21.15	21.55	19.88	21.00	20.29	21.40	21.80
	4H	20.15	21.15	20.58	21.57	22.00	20.38	21.38	20.81	21.80	22.23
	6H	20.43	21.30	20.89	21.75	22.20	20.65	21.52	21.11	21.96	22.42
	8H	20.48	21.29	20.94	21.73	22.20	20.71	21.52	21.17	21.97	22.43
	12H	20.49	21.22	20.97	21.69	22.16	20.76	21.49	21.24	21.96	22.43
8H	4H	20.34	21.16	20.80	21.60	22.07	20.55	21.36	21.01	21.81	22.27
	6H	20.68	21.35	21.17	21.84	22.32	20.88	21.55	21.37	22.04	22.51
	8H	20.75	21.35	21.26	21.86	22.35	20.97	21.57	21.48	22.08	22.57
	12H	20.79	21.32	21.29	21.81	22.37	21.05	21.58	21.56	22.08	22.64
12H	4H	20.34	21.07	20.82	21.55	22.02	20.55	21.27	21.03	21.75	22.22
	6H	20.68	21.28	21.19	21.79	22.28	20.87	21.47	21.38	21.98	22.47
	8H	20.78	21.31	21.29	21.80	22.37	21.00	21.53	21.51	22.02	22.59