

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: P1499276

Luminaire Tested: MAE-G-4-120-2LO-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2LO-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

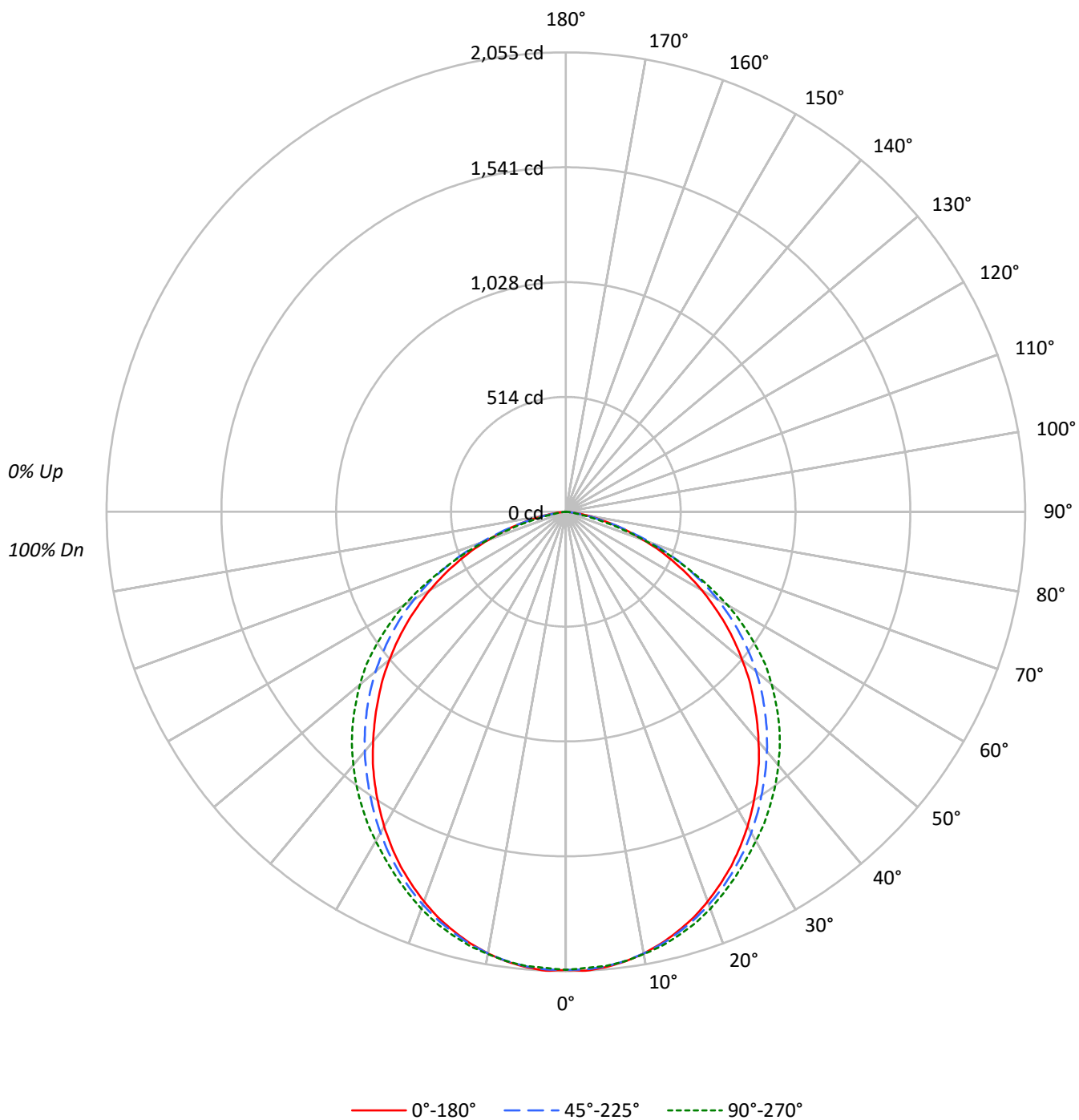
Lumens per Lamp: N/A
Luminaire Lumens: 5173.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	45	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2757	2757	2757
5°	2762	2758	2755
10°	2741	2741	2745
15°	2704	2714	2730
20°	2656	2678	2706
25°	2597	2631	2671
30°	2526	2577	2642
35°	2446	2515	2622
40°	2355	2458	2597
45°	2259	2397	2569
50°	2155	2325	2517
55°	2036	2232	2422
60°	1891	2107	2249
65°	1706	1914	1926
70°	1456	1593	1489
75°	1143	1154	930
80°	744	594	356
85°	344	225	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2569 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	3.7
10°-20°	549.0	10.6
20°-30°	815.5	15.8
30°-40°	960.6	18.6
40°-50°	973.1	18.8
50°-60°	847.0	16.4
60°-70°	577.2	11.2
70°-80°	230.7	4.5
80°-90°	26.4	0.5
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°	1558.0	30.1
0°-40°	2518.6	48.7
0°-60°	4338.7	83.9
0°-90°	5173.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5173.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2049	2049	2049	2049	2049	
5°	2045	2033	2042	2039	2040	194
15°	1942	1933	1948	1956	1960	547
25°	1749	1750	1772	1787	1799	805
35°	1489	1496	1531	1571	1596	931
45°	1187	1202	1260	1319	1350	916
55°	868	886	951	1011	1033	775
65°	536	561	601	602	605	531
75°	220	233	222	191	179	237
85°	22	20	15	13	12	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2049.3	2049.3	2049.3	2049.3	2049.3
2.5°	2055.0	2041.7	2049.3	2047.9	2042.4
5°	2045.1	2033.3	2041.7	2039.0	2039.6
7.5°	2029.1	2018.1	2027.1	2026.4	2028.5
10°	2006.2	1995.1	2006.2	2006.8	2009.0
12.5°	1977.6	1967.9	1981.1	1983.9	1988.8
15°	1941.5	1933.2	1948.4	1955.5	1960.2
17.5°	1902.6	1897.0	1912.2	1921.3	1929.0
20°	1855.2	1852.4	1870.6	1879.5	1889.9
22.5°	1803.7	1802.3	1824.0	1835.0	1845.5
25°	1749.4	1750.1	1772.4	1787.0	1798.9
27.5°	1689.5	1690.9	1718.1	1735.5	1750.1
30°	1625.6	1629.1	1658.9	1682.6	1700.8
32.5°	1558.0	1564.3	1596.3	1629.1	1652.0
35°	1489.1	1496.2	1531.0	1571.3	1596.3
37.5°	1418.2	1425.9	1466.2	1513.6	1540.0
40°	1341.0	1352.7	1399.5	1451.6	1478.7
42.5°	1265.0	1278.3	1330.6	1387.6	1416.8
45°	1187.2	1201.8	1259.5	1318.7	1349.9
47.5°	1112.0	1124.5	1186.4	1248.4	1276.3
50°	1029.3	1045.9	1110.6	1172.6	1202.4
52.5°	949.9	965.9	1032.0	1095.2	1126.0
55°	867.8	886.5	951.3	1011.1	1032.6
57.5°	785.0	806.5	869.1	918.5	937.3
60°	702.9	724.4	782.9	821.8	835.8
62.5°	620.0	642.3	693.8	717.5	720.3
65°	535.9	560.9	601.2	602.0	604.8
67.5°	455.9	476.6	505.9	497.6	493.4
70°	370.2	393.1	405.0	388.4	378.5
72.5°	294.4	311.0	309.0	284.5	272.8
75°	219.9	233.2	221.9	190.7	178.9
77.5°	152.4	163.5	141.2	112.0	100.3
80°	96.0	100.9	76.6	54.3	46.0
82.5°	51.5	50.8	32.8	27.1	25.1
85°	22.3	20.1	14.6	13.2	11.8
87.5°	7.7	6.9	5.5	4.9	4.2
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	14.44	16.02	14.80	16.34	16.65	15.40	16.98	15.77	17.30	17.61
	3H	15.86	17.28	16.24	17.61	17.97	16.59	18.01	16.97	18.34	18.70
	4H	16.25	17.59	16.65	17.93	18.31	16.81	18.14	17.20	18.49	18.86
	6H	16.43	17.66	16.84	18.02	18.42	16.82	18.05	17.24	18.42	18.81
	8H	16.44	17.61	16.87	18.00	18.40	16.80	17.97	17.23	18.36	18.76
	12H	16.43	17.55	16.86	17.94	18.36	16.78	17.90	17.20	18.28	18.71
4H	2H	15.10	16.43	15.50	16.78	17.16	15.87	17.21	16.27	17.56	17.93
	3H	16.68	17.78	17.09	18.18	18.58	17.22	18.33	17.63	18.73	19.13
	4H	17.15	18.15	17.59	18.56	19.00	17.49	18.48	17.92	18.90	19.34
	6H	17.39	18.26	17.85	18.70	19.16	17.54	18.40	18.00	18.85	19.31
	8H	17.42	18.22	17.88	18.66	19.13	17.52	18.32	17.98	18.77	19.23
	12H	17.42	18.13	17.90	18.61	19.08	17.50	18.22	17.98	18.69	19.16
8H	4H	17.29	18.09	17.75	18.54	19.00	17.61	18.41	18.07	18.85	19.32
	6H	17.57	18.23	18.06	18.72	19.19	17.67	18.33	18.16	18.82	19.29
	8H	17.60	18.20	18.12	18.70	19.19	17.64	18.23	18.16	18.74	19.23
	12H	17.62	18.14	18.13	18.63	19.19	17.63	18.15	18.14	18.64	19.20
12H	4H	17.27	17.99	17.75	18.47	18.94	17.60	18.31	18.08	18.79	19.26
	6H	17.54	18.13	18.05	18.64	19.12	17.64	18.24	18.16	18.74	19.23
	8H	17.60	18.12	18.11	18.61	19.18	17.64	18.16	18.15	18.66	19.22

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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