

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: P1498844

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498844
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-2-120-3STD-LO-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

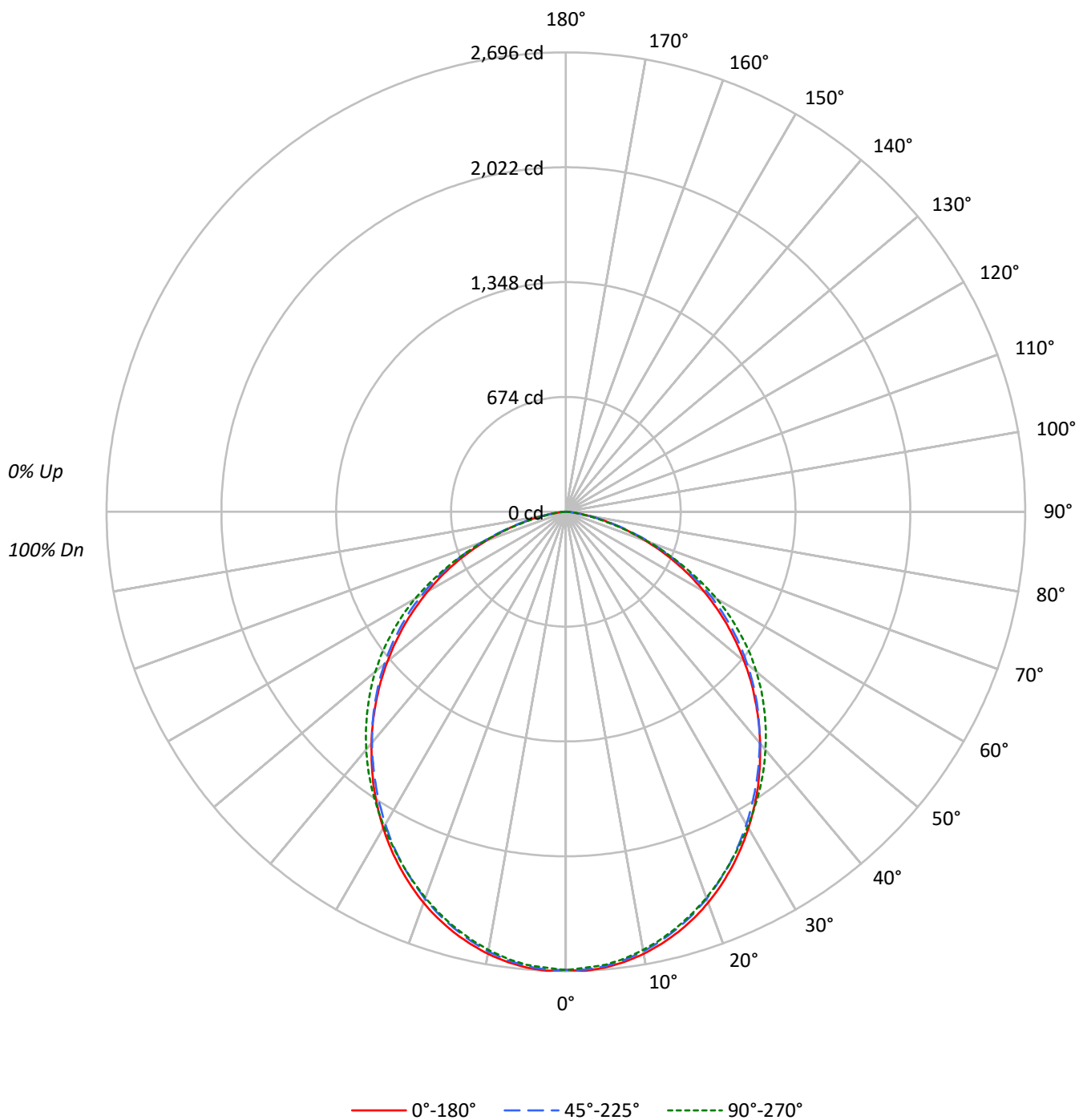
Lumens per Lamp: N/A
Luminaire Lumens: 6654.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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

TEST NUMBER: P1498844

CATALOG NUMBER: MAE-G-2-120-3STD-LO-30-WDDCPH

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	93	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	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	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	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	43	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7237	7237	7237
5°	7250	7229	7209
10°	7199	7160	7134
15°	7111	7052	7031
20°	6993	6921	6904
25°	6839	6763	6762
30°	6662	6583	6631
35°	6461	6397	6521
40°	6235	6217	6404
45°	5989	6031	6271
50°	5721	5818	6111
55°	5420	5569	5863
60°	5045	5247	5517
65°	4578	4802	4893
70°	3936	4146	4065
75°	3121	3241	2942
80°	2091	2042	1798
85°	1059	1213	1423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6271 cd/sqm

TEST NUMBER: P1498844

CATALOG NUMBER: MAE-G-2-120-3STD-LO-30-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.3	3.8
10°-20°	713.2	10.7
20°-30°	1049.9	15.8
30°-40°	1225.1	18.4
40°-50°	1230.5	18.5
50°-60°	1065.1	16.0
60°-70°	738.7	11.1
70°-80°	325.0	4.9
80°-90°	53.1	0.8
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°	2016.5	30.3
0°-40°	3241.6	48.7
0°-60°	5537.2	83.2
0°-90°	6654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2689	2689	2689	2689	2689	
5°	2684	2672	2676	2665	2669	255
15°	2553	2537	2531	2519	2524	719
25°	2303	2287	2278	2267	2277	1060
35°	1967	1948	1947	1963	1985	1229
45°	1574	1563	1585	1624	1648	1214
55°	1155	1149	1187	1234	1250	1031
65°	719	723	754	767	768	711
75°	300	306	312	294	283	322
85°	34	36	39	44	46	51
90°	0	0	0	0	0	

TEST NUMBER: P1498844

CATALOG NUMBER: MAE-G-2-120-3STD-LO-30-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2689.3	2689.3	2689.3	2689.3	2689.3
2.5°	2696.4	2684.0	2689.3	2681.0	2678.2
5°	2684.1	2671.7	2676.0	2665.3	2668.6
7.5°	2663.3	2650.5	2652.3	2641.2	2644.4
10°	2634.7	2620.3	2620.2	2608.1	2610.8
12.5°	2597.0	2582.6	2580.0	2566.6	2571.4
15°	2552.6	2537.2	2531.4	2519.1	2523.8
17.5°	2501.2	2484.8	2478.0	2463.3	2470.6
20°	2442.1	2425.0	2416.9	2401.0	2410.9
22.5°	2376.1	2358.7	2348.7	2335.7	2345.9
25°	2303.3	2286.6	2277.8	2266.7	2277.4
27.5°	2226.7	2208.1	2200.3	2194.4	2206.2
30°	2143.9	2125.2	2118.5	2117.4	2133.9
32.5°	2056.5	2038.6	2034.3	2041.8	2060.5
35°	1966.8	1948.2	1947.4	1963.4	1985.1
37.5°	1870.3	1855.9	1859.7	1884.1	1906.3
40°	1774.8	1759.7	1769.7	1799.7	1822.9
42.5°	1676.1	1663.8	1678.4	1714.7	1736.7
45°	1573.8	1563.1	1584.7	1623.9	1647.7
47.5°	1473.7	1462.2	1489.0	1531.1	1556.5
50°	1366.6	1358.8	1389.8	1436.0	1459.8
52.5°	1260.9	1253.3	1289.2	1337.5	1359.9
55°	1155.2	1149.1	1187.1	1233.7	1249.7
57.5°	1045.9	1045.3	1083.5	1123.7	1140.0
60°	937.3	937.5	975.0	1010.9	1025.0
62.5°	828.6	831.3	865.9	893.6	897.2
65°	718.9	723.0	754.2	766.6	768.4
67.5°	608.2	614.8	641.7	645.3	643.7
70°	500.3	505.0	526.9	524.6	516.6
72.5°	395.4	402.5	414.2	406.1	394.4
75°	300.2	305.9	311.7	294.3	283.0
77.5°	211.4	215.2	214.7	196.3	188.4
80°	134.9	139.1	131.8	121.3	116.0
82.5°	74.9	78.5	72.3	75.6	77.4
85°	34.3	35.9	39.3	44.3	46.1
87.5°	11.8	13.4	15.9	16.8	15.5
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	17.81	19.39	18.17	19.70	20.02	18.33	19.91	18.69	20.23	20.54
	3H	19.25	20.67	19.62	21.00	21.36	19.70	21.12	20.07	21.45	21.81
	4H	19.66	21.00	20.06	21.35	21.72	20.03	21.37	20.43	21.72	22.09
	6H	19.86	21.09	20.27	21.46	21.85	20.15	21.39	20.57	21.75	22.15
	8H	19.88	21.06	20.30	21.45	21.85	20.17	21.34	20.59	21.73	22.13
	12H	19.88	21.00	20.31	21.38	21.81	20.17	21.30	20.60	21.68	22.11
4H	2H	18.41	19.75	18.81	20.09	20.47	18.83	20.17	19.23	20.52	20.89
	3H	20.02	21.13	20.43	21.53	21.93	20.38	21.49	20.79	21.89	22.29
	4H	20.52	21.52	20.95	21.93	22.37	20.79	21.79	21.23	22.21	22.64
	6H	20.79	21.65	21.24	22.10	22.55	20.98	21.85	21.43	22.29	22.74
	8H	20.82	21.63	21.29	22.08	22.54	21.00	21.81	21.46	22.26	22.72
	12H	20.83	21.56	21.31	22.03	22.50	21.02	21.74	21.50	22.22	22.69
8H	4H	20.69	21.50	21.16	21.95	22.41	20.95	21.76	21.41	22.20	22.67
	6H	21.01	21.68	21.51	22.17	22.65	21.17	21.84	21.66	22.33	22.80
	8H	21.07	21.67	21.58	22.18	22.66	21.21	21.81	21.73	22.32	22.81
	12H	21.10	21.63	21.61	22.12	22.68	21.26	21.78	21.77	22.28	22.84
12H	4H	20.69	21.41	21.17	21.89	22.36	20.94	21.66	21.42	22.14	22.61
	6H	21.00	21.60	21.51	22.11	22.59	21.16	21.76	21.67	22.27	22.75
	8H	21.09	21.62	21.60	22.11	22.67	21.23	21.76	21.74	22.25	22.82