

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: P1498382

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498382
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-2-120-2HI-LO-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

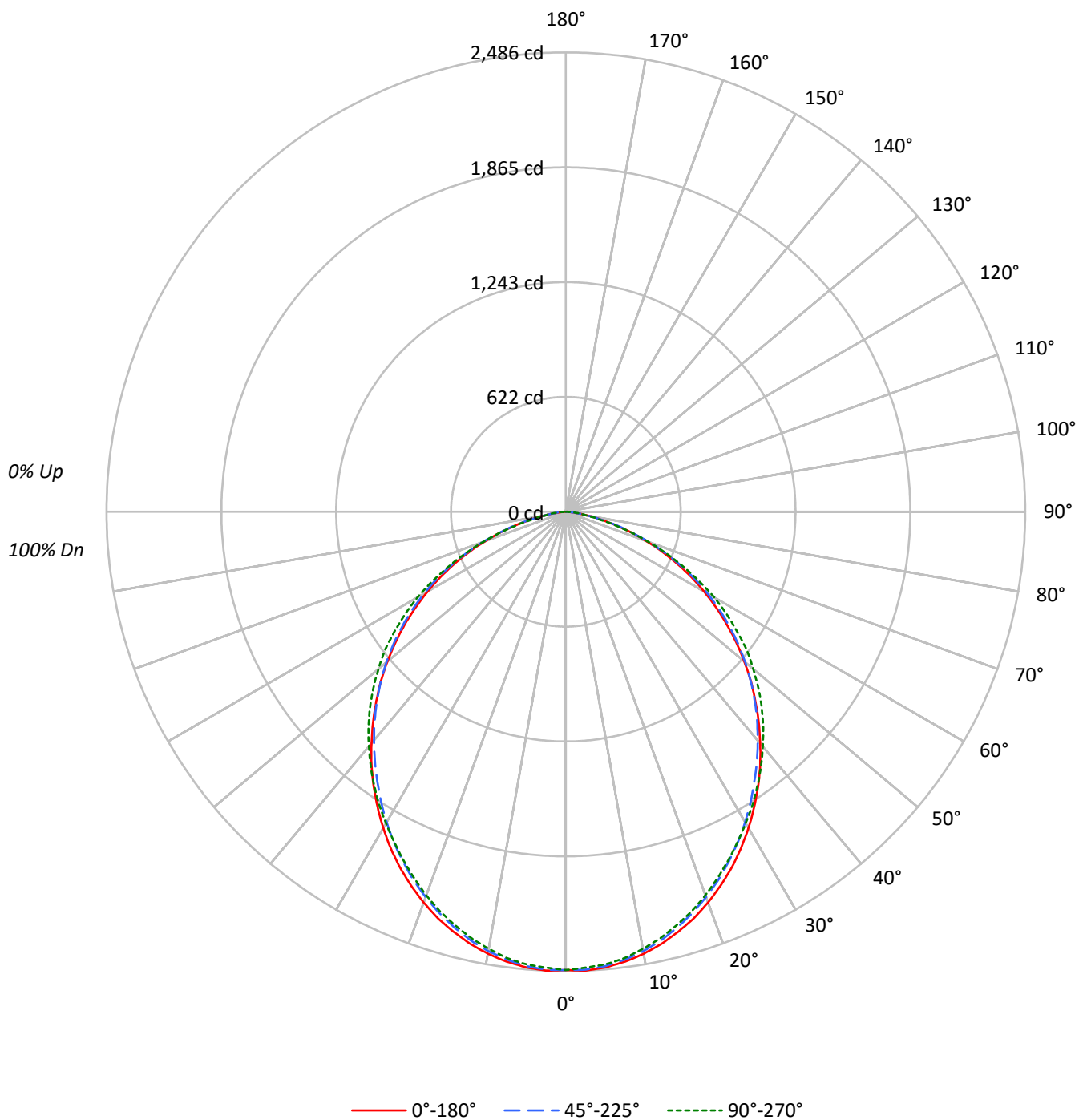
Lumens per Lamp: N/A
Luminaire Lumens: 6096.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	93	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	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	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	41	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6674	6674	6674
5°	6685	6666	6642
10°	6636	6597	6563
15°	6553	6489	6453
20°	6444	6353	6325
25°	6306	6198	6178
30°	6142	6027	6049
35°	5958	5845	5940
40°	5748	5676	5826
45°	5522	5499	5705
50°	5277	5305	5543
55°	4994	5070	5320
60°	4654	4771	4993
65°	4223	4357	4453
70°	3637	3755	3727
75°	2886	2955	2786
80°	1936	1920	1773
85°	973	1173	1433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5705 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	3.8
10°-20°	656.2	10.8
20°-30°	963.5	15.8
30°-40°	1122.2	18.4
40°-50°	1124.8	18.5
50°-60°	971.7	15.9
60°-70°	673.6	11.1
70°-80°	299.7	4.9
80°-90°	50.8	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°	1853.2	30.4
0°-40°	2975.4	48.8
0°-60°	5071.8	83.2
0°-90°	6096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2480	2480	2480	2480	2480	
5°	2475	2464	2468	2456	2459	235
15°	2352	2338	2329	2314	2316	663
25°	2124	2106	2088	2075	2081	977
35°	1814	1793	1779	1792	1808	1134
45°	1451	1436	1445	1478	1499	1119
55°	1064	1055	1081	1119	1134	951
65°	663	664	684	693	699	657
75°	278	280	284	272	268	299
85°	32	34	38	44	46	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2480.3	2480.3	2480.3	2480.3	2480.3
2.5°	2485.8	2475.5	2480.3	2471.8	2469.6
5°	2474.6	2464.2	2467.6	2456.3	2458.8
7.5°	2455.5	2444.3	2445.2	2433.1	2436.0
10°	2428.7	2415.8	2414.2	2399.8	2401.7
12.5°	2394.7	2380.9	2376.3	2360.3	2363.8
15°	2352.2	2337.6	2329.1	2313.7	2316.3
17.5°	2305.6	2290.9	2277.0	2261.1	2266.6
20°	2250.1	2235.0	2218.6	2202.0	2208.6
22.5°	2189.0	2172.3	2156.2	2140.4	2145.5
25°	2123.9	2106.1	2087.5	2074.7	2080.6
27.5°	2052.9	2033.4	2015.7	2005.6	2013.9
30°	1976.7	1956.9	1939.8	1935.7	1946.6
32.5°	1896.4	1876.9	1861.3	1865.7	1880.7
35°	1813.6	1793.0	1779.4	1791.6	1808.1
37.5°	1727.7	1707.7	1698.4	1718.0	1735.3
40°	1636.2	1618.7	1615.7	1640.4	1658.5
42.5°	1544.5	1528.4	1531.5	1561.3	1581.0
45°	1450.9	1435.5	1445.1	1478.2	1499.2
47.5°	1358.6	1342.2	1357.8	1393.9	1412.7
50°	1260.4	1247.5	1267.3	1304.8	1324.0
52.5°	1162.4	1150.7	1174.9	1214.2	1235.9
55°	1064.5	1054.8	1080.6	1118.7	1133.9
57.5°	964.4	958.9	985.4	1018.1	1032.4
60°	864.8	860.3	886.5	915.1	927.7
62.5°	764.2	761.3	786.6	807.7	813.9
65°	663.3	663.8	684.3	693.2	699.4
67.5°	564.8	564.4	582.1	587.8	588.4
70°	462.2	465.1	477.2	476.9	473.7
72.5°	368.6	369.6	376.9	371.0	365.8
75°	277.6	279.6	284.2	272.5	268.0
77.5°	195.0	199.6	196.8	186.2	182.1
80°	124.9	129.7	123.9	117.8	114.4
82.5°	69.4	72.2	69.4	74.5	76.6
85°	31.5	33.7	38.0	44.1	46.4
87.5°	10.6	12.8	15.8	16.7	15.6
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	17.52	19.10	17.88	19.42	19.73	17.95	19.53	18.31	19.84	20.16
	3H	18.97	20.40	19.35	20.72	21.08	19.33	20.76	19.71	21.08	21.44
	4H	19.39	20.72	19.79	21.07	21.45	19.69	21.02	20.09	21.37	21.75
	6H	19.59	20.82	20.00	21.19	21.58	19.83	21.07	20.24	21.43	21.82
	8H	19.61	20.79	20.04	21.18	21.58	19.85	21.03	20.28	21.42	21.82
	12H	19.61	20.73	20.04	21.12	21.54	19.86	20.99	20.29	21.37	21.80
4H	2H	18.11	19.44	18.50	19.79	20.17	18.45	19.79	18.85	20.14	20.51
	3H	19.73	20.84	20.14	21.24	21.64	20.02	21.13	20.43	21.52	21.93
	4H	20.23	21.23	20.66	21.64	22.08	20.45	21.45	20.88	21.87	22.30
	6H	20.50	21.37	20.96	21.81	22.27	20.66	21.53	21.12	21.97	22.43
	8H	20.54	21.35	21.00	21.79	22.26	20.70	21.51	21.16	21.95	22.42
	12H	20.55	21.27	21.03	21.75	22.22	20.73	21.45	21.21	21.93	22.40
8H	4H	20.40	21.21	20.87	21.66	22.12	20.61	21.42	21.07	21.86	22.33
	6H	20.73	21.40	21.22	21.89	22.36	20.86	21.53	21.36	22.02	22.50
	8H	20.79	21.39	21.30	21.90	22.38	20.92	21.52	21.43	22.03	22.52
	12H	20.82	21.35	21.33	21.84	22.40	20.98	21.50	21.49	22.00	22.56
12H	4H	20.40	21.12	20.88	21.60	22.07	20.60	21.33	21.08	21.80	22.27
	6H	20.72	21.32	21.23	21.83	22.31	20.85	21.45	21.37	21.96	22.45
	8H	20.81	21.34	21.32	21.83	22.39	20.95	21.47	21.45	21.97	22.53