

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: P1498598

Luminaire Tested: MAE-G-2-120-2STD-STD-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498598
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-2-120-2STD-STD-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

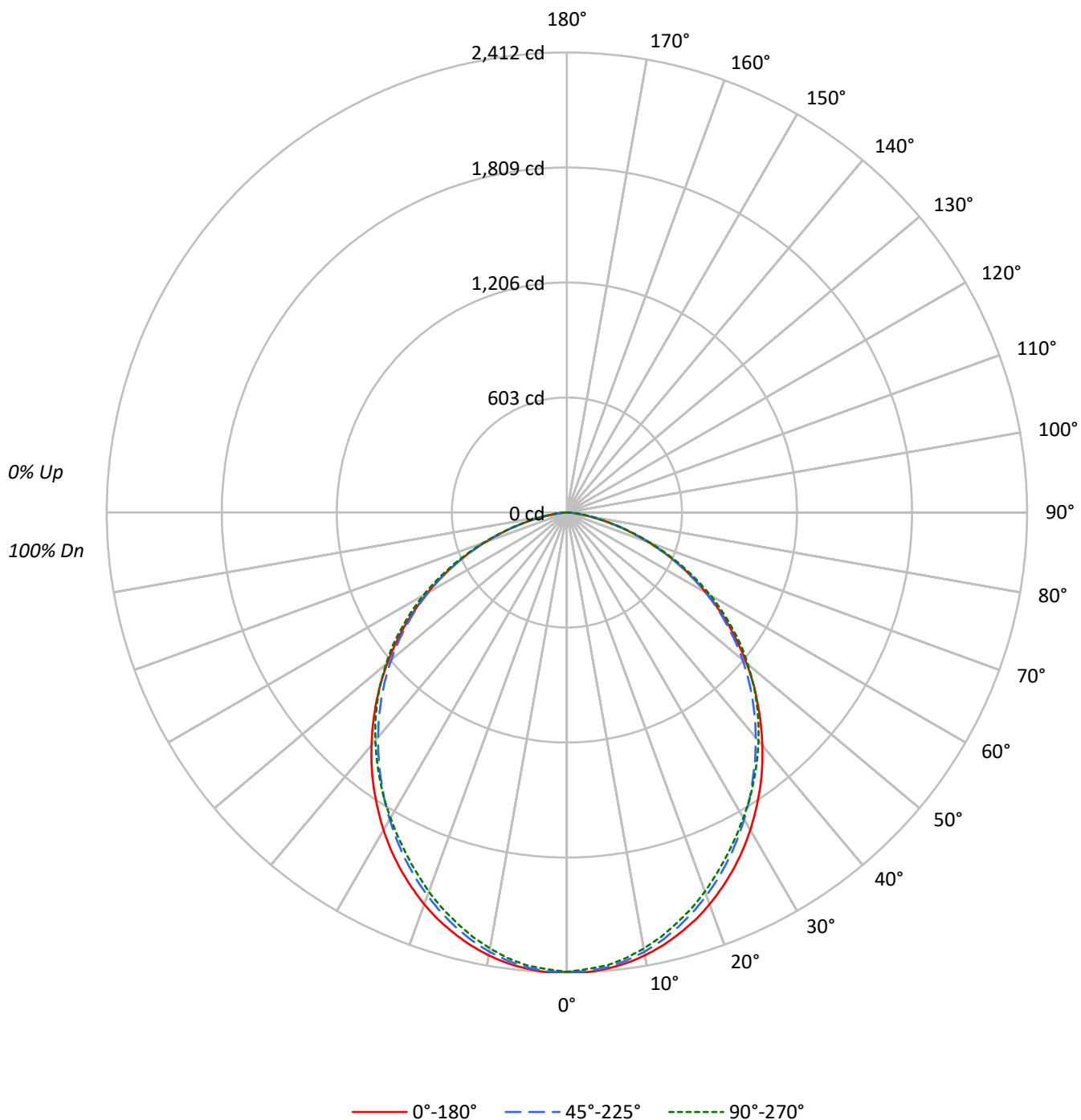
Lumens per Lamp: N/A
Luminaire Lumens: 5857.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.6
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
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	61		
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	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6479	6479	6479
5°	6488	6467	6438
10°	6443	6390	6341
15°	6364	6269	6207
20°	6261	6120	6057
25°	6129	5954	5891
30°	5973	5773	5744
35°	5798	5586	5616
40°	5596	5409	5486
45°	5380	5228	5350
50°	5144	5032	5179
55°	4873	4799	4964
60°	4546	4511	4681
65°	4134	4128	4247
70°	3570	3607	3663
75°	2847	2928	2902
80°	1929	2041	2056
85°	994	1371	1754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5380 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	3.9
10°-20°	633.9	10.8
20°-30°	926.7	15.8
30°-40°	1074.5	18.3
40°-50°	1072.3	18.3
50°-60°	923.6	15.8
60°-70°	644.8	11.0
70°-80°	298.5	5.1
80°-90°	56.3	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°	1787.0	30.5
0°-40°	2861.5	48.9
0°-60°	4857.4	82.9
0°-90°	5857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2408	2408	2408	2408	2408	
5°	2402	2393	2394	2380	2383	228
15°	2284	2268	2250	2226	2228	644
25°	2064	2040	2005	1982	1984	950
35°	1765	1734	1700	1699	1710	1103
45°	1414	1386	1374	1392	1406	1091
55°	1039	1017	1023	1047	1058	927
65°	649	639	648	660	667	642
75°	274	270	282	280	279	295
85°	32	36	44	53	57	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2407.7	2407.7	2407.7	2407.7	2407.7
2.5°	2412.5	2404.8	2407.7	2397.0	2396.4
5°	2402.0	2393.4	2394.2	2380.1	2383.4
7.5°	2383.5	2373.5	2370.6	2354.8	2357.7
10°	2357.9	2345.5	2338.5	2319.0	2320.5
12.5°	2325.1	2311.1	2298.8	2276.3	2278.9
15°	2284.3	2268.4	2250.2	2226.5	2227.9
17.5°	2239.3	2222.0	2196.5	2171.3	2175.3
20°	2186.2	2167.0	2137.0	2110.8	2115.0
22.5°	2127.1	2105.5	2074.2	2048.1	2050.2
25°	2064.2	2040.2	2005.2	1981.5	1984.2
27.5°	1995.8	1969.0	1933.3	1912.1	1916.6
30°	1922.3	1894.1	1857.9	1842.0	1848.6
32.5°	1844.9	1816.0	1780.8	1772.0	1781.9
35°	1764.8	1734.0	1700.3	1698.6	1709.5
37.5°	1681.3	1651.0	1620.7	1625.8	1637.2
40°	1593.1	1564.6	1539.7	1549.4	1561.8
42.5°	1504.3	1476.9	1457.6	1472.3	1485.5
45°	1413.8	1386.4	1373.7	1391.7	1405.8
47.5°	1323.6	1296.1	1289.2	1310.1	1322.8
50°	1228.8	1204.2	1201.9	1224.5	1237.0
52.5°	1133.0	1110.3	1113.2	1137.7	1153.0
55°	1038.6	1017.3	1023.0	1047.3	1058.1
57.5°	941.4	924.4	932.1	954.0	964.7
60°	844.6	829.1	838.2	859.2	869.8
62.5°	746.9	733.2	744.0	761.8	768.8
65°	649.3	638.9	648.3	659.9	667.0
67.5°	553.1	543.4	554.0	565.3	568.0
70°	453.8	447.5	458.5	465.5	465.6
72.5°	362.4	356.3	367.0	370.0	368.2
75°	273.8	270.4	281.6	279.8	279.1
77.5°	193.1	194.4	200.6	199.4	199.1
80°	124.5	128.8	131.7	133.5	132.7
82.5°	70.0	74.1	78.2	87.7	91.4
85°	32.2	36.2	44.4	53.2	56.8
87.5°	10.8	14.0	18.6	20.1	19.1
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	17.42	19.00	17.78	19.32	19.63	17.63	19.21	18.00	19.53	19.84
	3H	18.88	20.31	19.26	20.64	21.00	19.10	20.53	19.48	20.85	21.21
	4H	19.31	20.65	19.71	21.00	21.37	19.52	20.86	19.92	21.21	21.58
	6H	19.52	20.75	19.93	21.12	21.51	19.73	20.97	20.14	21.34	21.73
	8H	19.55	20.72	19.97	21.11	21.51	19.78	20.96	20.21	21.35	21.75
	12H	19.54	20.67	19.97	21.05	21.48	19.81	20.94	20.24	21.32	21.75
4H	2H	17.98	19.31	18.38	19.66	20.04	18.15	19.49	18.55	19.83	20.21
	3H	19.62	20.73	20.03	21.13	21.53	19.81	20.92	20.22	21.32	21.72
	4H	20.13	21.13	20.56	21.55	21.98	20.32	21.32	20.75	21.73	22.17
	6H	20.42	21.29	20.87	21.73	22.19	20.61	21.48	21.07	21.92	22.38
	8H	20.46	21.27	20.92	21.72	22.18	20.68	21.49	21.14	21.94	22.40
	12H	20.47	21.20	20.95	21.68	22.15	20.73	21.46	21.21	21.94	22.41
8H	4H	20.32	21.13	20.78	21.58	22.04	20.49	21.30	20.95	21.75	22.21
	6H	20.66	21.33	21.16	21.82	22.30	20.84	21.51	21.34	22.00	22.48
	8H	20.73	21.33	21.24	21.84	22.33	20.95	21.55	21.46	22.06	22.54
	12H	20.77	21.30	21.28	21.79	22.35	21.04	21.57	21.55	22.06	22.63
12H	4H	20.32	21.05	20.80	21.52	21.99	20.49	21.21	20.97	21.69	22.16
	6H	20.66	21.26	21.17	21.77	22.26	20.84	21.44	21.35	21.95	22.44
	8H	20.77	21.30	21.28	21.79	22.35	20.98	21.51	21.49	22.00	22.57