

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: P1498499

Luminaire Tested: MAE-G-2-120-2LO-STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498499
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-2-120-2LO-STD-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

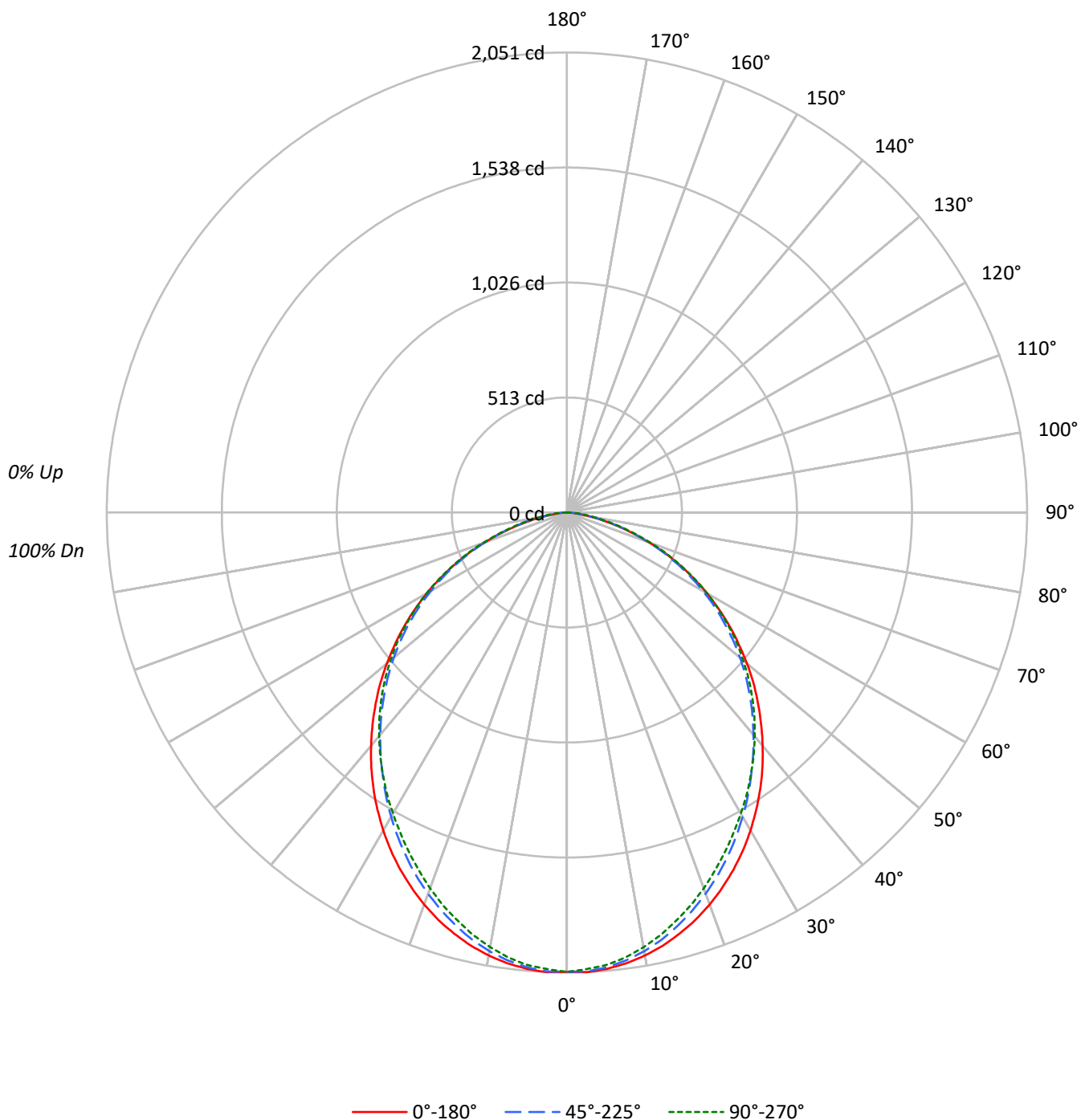
Lumens per Lamp: N/A
Luminaire Lumens: 4948.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	87	85
2	100	92	86	80	98	90	85	79	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	56		66	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	55	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°	5510	5510	5510
5°	5518	5498	5470
10°	5480	5427	5376
15°	5413	5315	5247
20°	5327	5178	5106
25°	5216	5029	4953
30°	5085	4867	4815
35°	4938	4702	4694
40°	4769	4545	4574
45°	4586	4386	4447
50°	4387	4215	4294
55°	4157	4015	4113
60°	3881	3771	3891
65°	3535	3456	3570
70°	3058	3047	3140
75°	2444	2522	2574
80°	1667	1833	1931
85°	871	1294	1689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4586 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	3.9
10°-20°	537.5	10.9
20°-30°	783.4	15.8
30°-40°	905.7	18.3
40°-50°	901.3	18.2
50°-60°	774.7	15.7
60°-70°	543.4	11.0
70°-80°	258.0	5.2
80°-90°	51.7	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°	1513.3	30.6
0°-40°	2419.0	48.9
0°-60°	4095.0	82.8
0°-90°	4948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4948.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2048	2048	2048	2048	2048	
5°	2043	2036	2035	2022	2025	194
15°	1943	1929	1908	1883	1884	548
25°	1757	1733	1694	1668	1668	809
35°	1503	1471	1431	1422	1429	939
45°	1205	1175	1152	1160	1169	930
55°	886	862	856	870	877	791
65°	555	540	543	554	561	549
75°	235	230	243	246	248	253
85°	28	33	42	51	55	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2047.6	2047.6	2047.6	2047.6	2047.6
2.5°	2051.4	2046.0	2047.6	2037.2	2037.5
5°	2042.6	2036.1	2035.4	2021.8	2025.0
7.5°	2026.9	2018.9	2014.4	1998.7	2001.2
10°	2005.4	1994.9	1986.0	1966.4	1967.5
12.5°	1977.6	1965.2	1950.7	1927.7	1929.4
15°	1943.1	1928.7	1907.8	1882.9	1883.5
17.5°	1905.0	1888.6	1860.5	1833.7	1836.3
20°	1860.2	1841.5	1808.3	1780.5	1782.9
22.5°	1810.2	1788.8	1753.7	1725.6	1725.9
25°	1756.8	1732.7	1693.7	1667.5	1668.1
27.5°	1698.9	1671.9	1631.4	1607.1	1609.1
30°	1636.6	1607.9	1566.4	1546.3	1549.7
32.5°	1571.1	1541.1	1500.3	1485.8	1491.6
35°	1503.1	1471.1	1431.3	1422.5	1429.0
37.5°	1432.1	1400.5	1363.0	1359.9	1366.6
40°	1357.5	1326.9	1293.8	1294.4	1302.0
42.5°	1282.0	1252.3	1223.8	1228.4	1236.6
45°	1205.1	1175.2	1152.4	1159.9	1168.6
47.5°	1128.2	1098.5	1080.7	1090.7	1098.6
50°	1047.9	1020.4	1006.8	1018.5	1025.7
52.5°	966.1	940.6	931.9	945.2	955.1
55°	886.1	861.5	855.8	869.6	876.7
57.5°	803.4	782.7	779.4	792.6	800.0
60°	721.1	701.8	700.6	714.8	722.9
62.5°	638.0	620.3	622.1	635.7	642.2
65°	555.1	540.3	542.7	554.2	560.7
67.5°	473.0	459.6	465.1	477.9	481.3
70°	388.7	378.4	387.3	397.2	399.1
72.5°	310.7	301.7	312.7	320.0	320.3
75°	235.1	229.5	242.6	246.3	247.6
77.5°	166.3	165.7	175.8	179.7	181.4
80°	107.6	111.1	118.3	123.9	124.6
82.5°	61.0	65.2	72.5	82.9	87.0
85°	28.2	32.6	41.9	50.9	54.7
87.5°	9.5	12.8	17.7	19.2	18.4
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	16.86	18.44	17.22	18.76	19.07	16.93	18.51	17.29	18.82	19.14
	3H	18.33	19.76	18.71	20.08	20.44	18.46	19.88	18.83	20.21	20.57
	4H	18.76	20.10	19.16	20.45	20.83	18.92	20.26	19.32	20.61	20.98
	6H	18.98	20.22	19.39	20.58	20.97	19.18	20.42	19.59	20.78	21.17
	8H	19.01	20.19	19.43	20.58	20.98	19.25	20.43	19.67	20.82	21.22
	12H	19.01	20.14	19.44	20.52	20.95	19.29	20.42	19.72	20.80	21.23
4H	2H	17.40	18.74	17.80	19.08	19.46	17.45	18.79	17.85	19.14	19.52
	3H	19.05	20.17	19.46	20.56	20.96	19.17	20.29	19.58	20.69	21.09
	4H	19.57	20.57	20.00	20.99	21.42	19.74	20.74	20.17	21.16	21.59
	6H	19.86	20.74	20.32	21.18	21.64	20.09	20.96	20.54	21.40	21.86
	8H	19.91	20.73	20.37	21.17	21.64	20.18	21.00	20.64	21.44	21.91
	12H	19.93	20.66	20.41	21.13	21.60	20.25	20.98	20.74	21.46	21.93
8H	4H	19.77	20.58	20.23	21.03	21.49	19.92	20.74	20.38	21.18	21.65
	6H	20.12	20.80	20.62	21.29	21.76	20.34	21.01	20.83	21.50	21.98
	8H	20.20	20.80	20.71	21.31	21.80	20.48	21.08	20.99	21.59	22.08
	12H	20.24	20.77	20.75	21.27	21.83	20.60	21.13	21.11	21.62	22.19
12H	4H	19.77	20.50	20.25	20.98	21.45	19.92	20.65	20.40	21.13	21.60
	6H	20.13	20.74	20.64	21.24	21.73	20.34	20.95	20.85	21.45	21.94
	8H	20.24	20.78	20.75	21.27	21.83	20.52	21.05	21.03	21.54	22.11