

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: P1499051

Luminaire Tested: MAE-G-4-120-1LO-LO-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1LO-LO-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

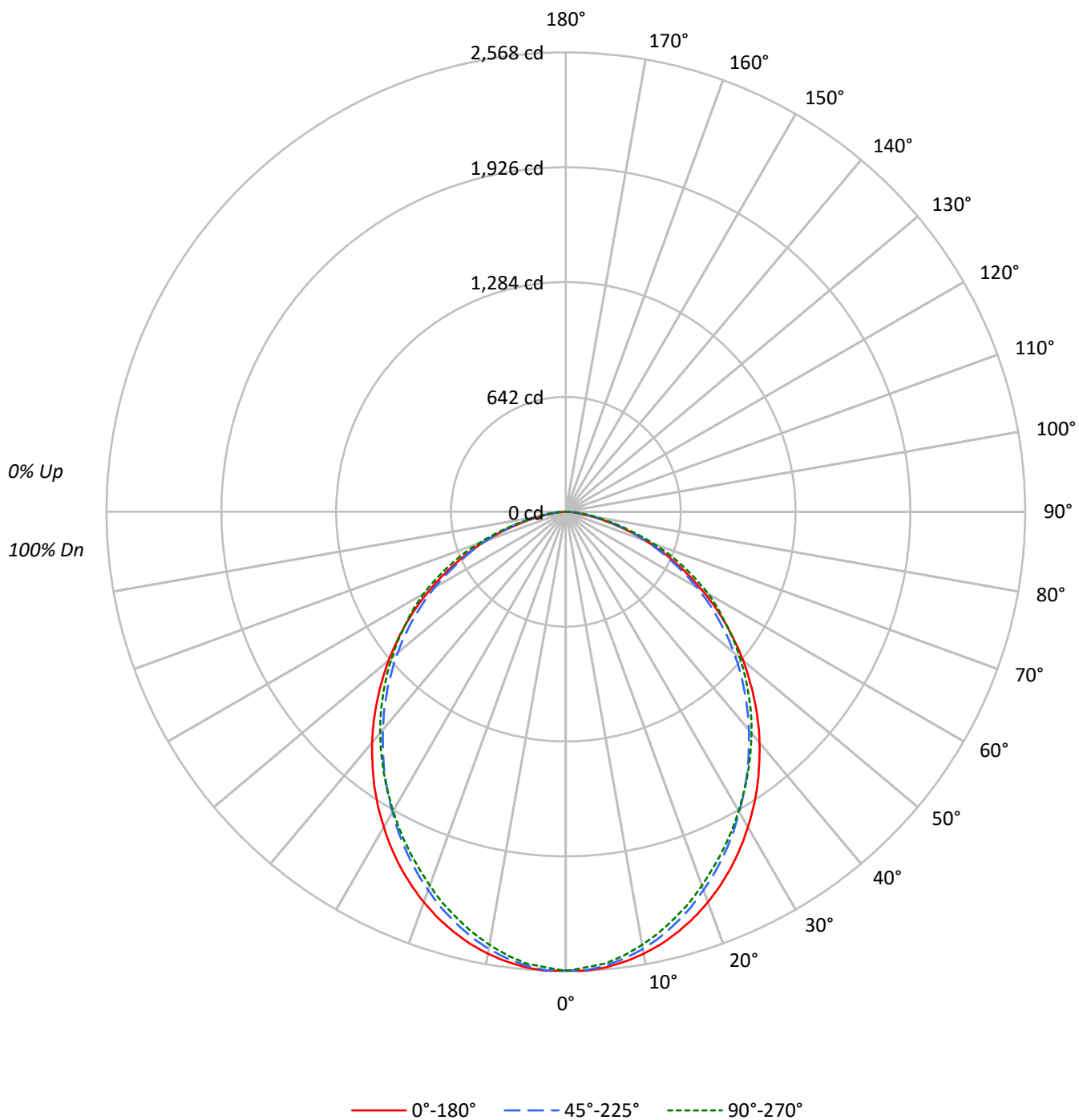
Lumens per Lamp: N/A
Luminaire Lumens: 6139.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.2
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	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	82	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3452	3452	3452
5°	3453	3440	3423
10°	3428	3390	3359
15°	3385	3315	3276
20°	3325	3222	3185
25°	3252	3123	3091
30°	3163	3011	3000
35°	3068	2906	2916
40°	2959	2796	2837
45°	2838	2686	2749
50°	2709	2570	2658
55°	2559	2434	2562
60°	2374	2278	2477
65°	2160	2075	2303
70°	1875	1866	2052
75°	1496	1588	1685
80°	1035	1227	1337
85°	579	934	1216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2838 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.8	3.9
10°-20°	671.3	10.9
20°-30°	975.2	15.9
30°-40°	1122.2	18.3
40°-50°	1110.8	18.1
50°-60°	951.1	15.5
60°-70°	670.8	10.9
70°-80°	325.9	5.3
80°-90°	70.9	1.2
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°	1887.3	30.7
0°-40°	3009.5	49.0
0°-60°	5071.4	82.6
0°-90°	6139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6139.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2565	2565	2565	2565	2565	
5°	2556	2554	2547	2529	2534	242
15°	2430	2416	2380	2348	2352	685
25°	2190	2158	2103	2076	2082	1008
35°	1868	1824	1769	1763	1775	1167
45°	1491	1451	1412	1429	1445	1150
55°	1091	1054	1038	1068	1092	974
65°	679	650	652	702	723	671
75°	288	276	306	324	324	311
85°	38	46	60	74	79	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2565.4	2565.4	2565.4	2565.4	2565.4
2.5°	2568.3	2570.5	2565.4	2546.2	2549.4
5°	2556.5	2554.3	2546.7	2528.7	2534.4
7.5°	2536.1	2532.6	2518.9	2497.5	2501.2
10°	2509.0	2502.0	2481.6	2455.0	2458.2
12.5°	2474.0	2464.5	2435.8	2405.6	2408.9
15°	2429.9	2416.4	2379.8	2348.1	2351.5
17.5°	2379.5	2364.1	2319.8	2285.4	2292.6
20°	2322.4	2301.4	2250.5	2217.8	2224.1
22.5°	2259.4	2233.1	2179.8	2148.2	2153.2
25°	2190.2	2158.2	2103.4	2076.4	2082.4
27.5°	2115.4	2080.3	2023.9	1999.4	2008.4
30°	2035.7	1998.0	1938.2	1921.3	1931.1
32.5°	1954.0	1913.7	1854.8	1844.0	1853.8
35°	1867.9	1824.1	1769.3	1762.7	1775.1
37.5°	1775.9	1733.7	1679.7	1683.9	1695.5
40°	1684.8	1641.2	1591.7	1601.0	1615.0
42.5°	1590.1	1548.0	1502.9	1515.9	1532.2
45°	1491.4	1451.3	1411.8	1429.1	1444.8
47.5°	1392.3	1352.5	1320.5	1340.8	1359.3
50°	1294.0	1255.9	1227.7	1252.3	1269.9
52.5°	1190.8	1154.4	1134.3	1160.3	1182.7
55°	1090.8	1053.7	1037.6	1068.5	1092.2
57.5°	987.3	956.9	943.0	979.4	1009.1
60°	882.3	852.4	846.4	892.5	920.5
62.5°	779.7	750.3	747.7	801.5	821.8
65°	678.6	649.7	651.9	701.6	723.4
67.5°	578.5	552.0	564.2	611.9	626.4
70°	476.6	452.9	474.3	514.5	521.7
72.5°	380.8	360.8	389.8	418.1	419.8
75°	287.8	275.5	305.5	324.1	324.2
77.5°	206.0	199.5	227.2	239.9	240.6
80°	133.6	136.5	158.3	168.3	172.5
82.5°	77.8	84.7	101.8	118.6	123.1
85°	37.5	45.7	60.5	73.5	78.8
87.5°	12.9	18.4	25.2	28.0	27.2
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	15.10	16.68	15.47	17.00	17.31	15.27	16.86	15.64	17.17	17.48
	3H	16.55	17.98	16.93	18.30	18.66	16.92	18.34	17.29	18.67	19.03
	4H	16.98	18.32	17.38	18.67	19.04	17.42	18.76	17.82	19.10	19.48
	6H	17.20	18.44	17.61	18.80	19.19	17.71	18.95	18.13	19.32	19.71
	8H	17.23	18.41	17.66	18.80	19.20	17.80	18.98	18.23	19.37	19.77
	12H	17.24	18.37	17.67	18.75	19.18	17.86	18.99	18.29	19.37	19.80
4H	2H	15.62	16.96	16.02	17.30	17.68	15.76	17.09	16.16	17.44	17.82
	3H	17.25	18.37	17.66	18.77	19.17	17.61	18.72	18.02	19.12	19.52
	4H	17.76	18.77	18.20	19.18	19.62	18.22	19.22	18.65	19.64	20.08
	6H	18.07	18.94	18.52	19.38	19.84	18.62	19.49	19.07	19.93	20.39
	8H	18.12	18.94	18.58	19.38	19.85	18.74	19.56	19.20	20.00	20.47
	12H	18.14	18.87	18.62	19.35	19.82	18.84	19.57	19.32	20.05	20.52
8H	4H	17.99	18.81	18.45	19.25	19.72	18.40	19.22	18.86	19.66	20.13
	6H	18.36	19.03	18.85	19.52	20.00	18.88	19.56	19.38	20.04	20.52
	8H	18.44	19.05	18.96	19.56	20.04	19.06	19.66	19.57	20.17	20.66
	12H	18.50	19.03	19.01	19.52	20.09	19.21	19.75	19.72	20.24	20.80
12H	4H	18.00	18.73	18.48	19.21	19.68	18.40	19.13	18.88	19.61	20.08
	6H	18.38	18.98	18.89	19.49	19.98	18.88	19.49	19.40	20.00	20.49
	8H	18.51	19.04	19.01	19.53	20.09	19.11	19.64	19.61	20.13	20.69