

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: P1499033

Luminaire Tested: MAE-G-4-120-1LO-LO-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499033
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-30-90-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

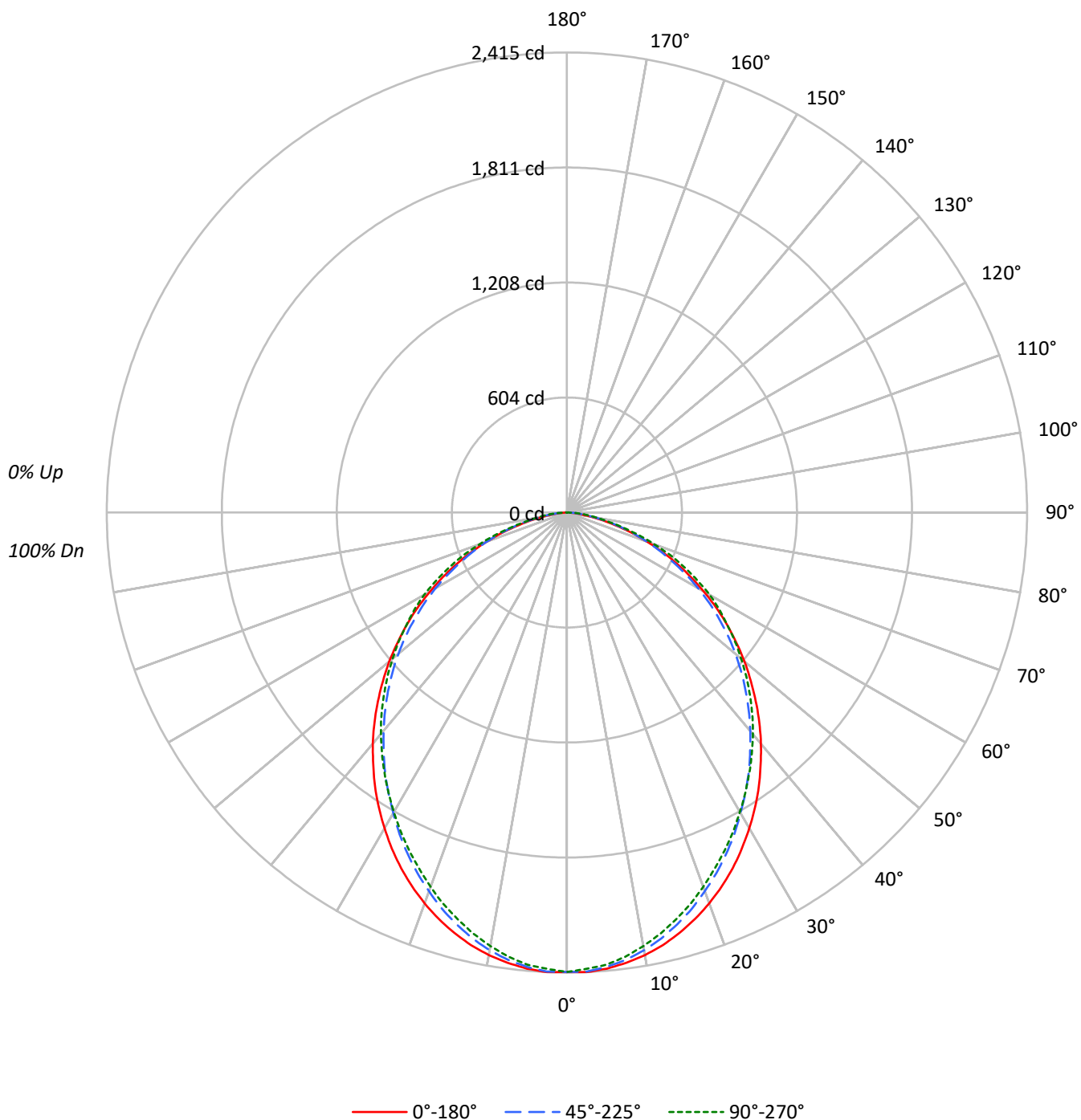
Lumens per Lamp: N/A
Luminaire Lumens: 5772.0 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64
5	78	65	56	50	75	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3245	3245	3245
5°	3247	3234	3218
10°	3223	3188	3158
15°	3183	3117	3080
20°	3127	3030	2994
25°	3057	2936	2907
30°	2974	2831	2821
35°	2885	2732	2741
40°	2783	2629	2667
45°	2668	2526	2585
50°	2547	2416	2499
55°	2406	2289	2409
60°	2232	2141	2329
65°	2032	1952	2165
70°	1763	1755	1930
75°	1407	1493	1585
80°	973	1153	1258
85°	543	880	1144

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2668 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.4	3.9
10°-20°	631.2	10.9
20°-30°	916.9	15.9
30°-40°	1055.2	18.3
40°-50°	1044.4	18.1
50°-60°	894.2	15.5
60°-70°	630.7	10.9
70°-80°	306.4	5.3
80°-90°	66.7	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°	1774.4	30.7
0°-40°	2829.6	49.0
0°-60°	4768.2	82.6
0°-90°	5772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5772.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2412	2412	2412	2412	2412	
5°	2404	2402	2394	2378	2383	228
15°	2285	2272	2238	2208	2211	644
25°	2059	2029	1978	1952	1958	948
35°	1756	1715	1664	1657	1669	1097
45°	1402	1364	1327	1344	1358	1082
55°	1026	991	976	1005	1027	916
65°	638	611	613	660	680	631
75°	271	259	287	305	305	292
85°	35	43	57	69	74	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2412.1	2412.1	2412.1	2412.1	2412.1
2.5°	2414.9	2416.9	2412.1	2393.9	2397.1
5°	2403.7	2401.7	2394.5	2377.6	2382.9
7.5°	2384.5	2381.2	2368.3	2348.3	2351.7
10°	2359.1	2352.5	2333.2	2308.2	2311.1
12.5°	2326.1	2317.2	2290.1	2261.7	2264.9
15°	2284.8	2272.0	2237.6	2207.7	2210.9
17.5°	2237.3	2222.7	2181.1	2148.7	2155.6
20°	2183.6	2163.9	2116.0	2085.3	2091.1
22.5°	2124.4	2099.7	2049.5	2019.8	2024.4
25°	2059.2	2029.2	1977.7	1952.3	1957.8
27.5°	1989.0	1956.0	1902.9	1879.8	1888.3
30°	1914.1	1878.5	1822.3	1806.4	1815.6
32.5°	1837.1	1799.4	1743.9	1733.7	1742.9
35°	1756.3	1715.1	1663.5	1657.3	1669.0
37.5°	1669.8	1630.2	1579.2	1583.1	1594.1
40°	1584.2	1543.1	1496.6	1505.3	1518.5
42.5°	1495.0	1455.5	1413.0	1425.2	1440.6
45°	1402.2	1364.5	1327.4	1343.6	1358.4
47.5°	1309.1	1271.7	1241.5	1260.7	1278.1
50°	1216.6	1180.7	1154.3	1177.4	1193.9
52.5°	1119.6	1085.3	1066.4	1090.9	1112.0
55°	1025.5	990.8	975.6	1004.6	1026.9
57.5°	928.3	899.7	886.6	920.8	948.7
60°	829.6	801.5	795.8	839.0	865.5
62.5°	733.1	705.5	703.0	753.6	772.6
65°	638.1	610.8	613.0	659.6	680.1
67.5°	543.9	519.0	530.4	575.2	588.9
70°	448.1	425.8	446.0	483.8	490.5
72.5°	358.1	339.3	366.5	393.1	394.8
75°	270.6	259.0	287.2	304.7	304.8
77.5°	193.7	187.6	213.6	225.5	226.2
80°	125.6	128.4	148.8	158.1	162.3
82.5°	73.2	79.7	95.7	111.6	115.7
85°	35.2	43.0	57.0	69.1	74.1
87.5°	12.2	17.3	23.8	26.4	25.7
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	14.89	16.47	15.25	16.78	17.10	15.06	16.64	15.42	16.95	17.27
	3H	16.34	17.76	16.71	18.09	18.45	16.70	18.13	17.08	18.45	18.81
	4H	16.77	18.10	17.16	18.45	18.83	17.20	18.54	17.60	18.89	19.27
	6H	16.98	18.22	17.40	18.59	18.98	17.50	18.74	17.91	19.10	19.49
	8H	17.02	18.20	17.44	18.59	18.99	17.59	18.77	18.01	19.16	19.56
	12H	17.02	18.15	17.45	18.54	18.97	17.65	18.78	18.08	19.16	19.59
4H	2H	15.40	16.74	15.80	17.09	17.47	15.54	16.88	15.94	17.23	17.61
	3H	17.04	18.15	17.45	18.55	18.95	17.39	18.51	17.80	18.90	19.30
	4H	17.55	18.55	17.98	18.97	19.41	18.01	19.01	18.44	19.42	19.86
	6H	17.85	18.73	18.31	19.17	19.63	18.40	19.28	18.86	19.72	20.18
	8H	17.91	18.72	18.37	19.17	19.63	18.53	19.34	18.99	19.79	20.25
	12H	17.93	18.66	18.41	19.14	19.61	18.62	19.35	19.10	19.83	20.30
8H	4H	17.78	18.59	18.24	19.04	19.50	18.19	19.00	18.65	19.45	19.91
	6H	18.14	18.82	18.64	19.31	19.78	18.67	19.34	19.16	19.83	20.31
	8H	18.23	18.84	18.74	19.34	19.83	18.84	19.45	19.35	19.95	20.44
	12H	18.28	18.82	18.79	19.31	19.87	19.00	19.53	19.51	20.02	20.59
12H	4H	17.79	18.52	18.27	19.00	19.47	18.19	18.92	18.67	19.39	19.86
	6H	18.16	18.77	18.68	19.28	19.76	18.67	19.28	19.18	19.78	20.27
	8H	18.29	18.83	18.80	19.32	19.88	18.89	19.42	19.40	19.92	20.48