

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: P1499045

Luminaire Tested: MAE-G-4-120-1LO-LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499045
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-40-90-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

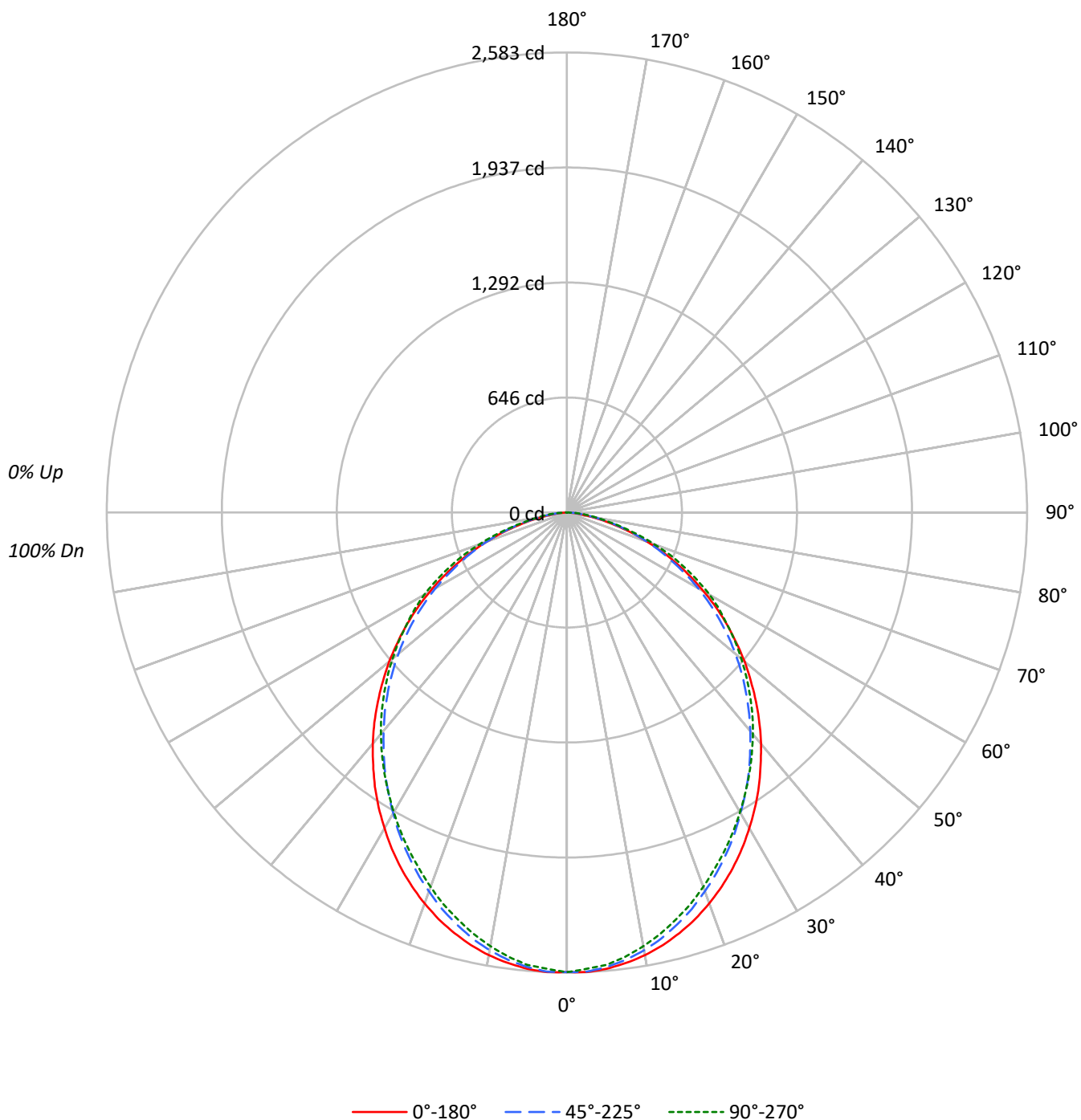
Lumens per Lamp: N/A
Luminaire Lumens: 6175.0 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3472	3472	3472
5°	3473	3460	3443
10°	3448	3410	3378
15°	3405	3334	3295
20°	3345	3241	3203
25°	3271	3141	3110
30°	3181	3029	3018
35°	3086	2923	2933
40°	2977	2812	2853
45°	2855	2702	2765
50°	2725	2585	2674
55°	2574	2448	2577
60°	2388	2291	2492
65°	2173	2088	2316
70°	1886	1877	2065
75°	1505	1597	1695
80°	1041	1234	1344
85°	582	940	1223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2855 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	3.9
10°-20°	675.2	10.9
20°-30°	980.9	15.9
30°-40°	1128.8	18.3
40°-50°	1117.3	18.1
50°-60°	956.7	15.5
60°-70°	674.7	10.9
70°-80°	327.8	5.3
80°-90°	71.4	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°	1898.3	30.7
0°-40°	3027.2	49.0
0°-60°	5101.1	82.6
0°-90°	6175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2580	2580	2580	2580	2580	
5°	2572	2569	2562	2544	2549	244
15°	2444	2431	2394	2362	2365	689
25°	2203	2171	2116	2089	2095	1014
35°	1879	1835	1780	1773	1786	1174
45°	1500	1460	1420	1438	1453	1157
55°	1097	1060	1044	1075	1099	979
65°	683	654	656	706	728	675
75°	290	277	307	326	326	312
85°	38	46	61	74	79	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2580.5	2580.5	2580.5	2580.5	2580.5
2.5°	2583.4	2585.6	2580.5	2561.1	2564.4
5°	2571.5	2569.3	2561.6	2543.5	2549.2
7.5°	2551.0	2547.4	2533.6	2512.2	2515.9
10°	2523.8	2516.7	2496.2	2469.3	2472.5
12.5°	2488.5	2479.0	2450.0	2419.6	2423.0
15°	2444.2	2430.6	2393.8	2361.9	2365.2
17.5°	2393.5	2377.9	2333.4	2298.8	2306.1
20°	2336.0	2315.0	2263.7	2230.9	2237.2
22.5°	2272.7	2246.3	2192.5	2160.8	2165.8
25°	2203.0	2170.9	2115.7	2088.6	2094.6
27.5°	2127.8	2092.6	2035.9	2011.1	2020.2
30°	2047.7	2009.7	1949.6	1932.5	1942.5
32.5°	1965.4	1925.0	1865.7	1854.7	1864.7
35°	1878.9	1834.8	1779.6	1773.1	1785.5
37.5°	1786.3	1744.0	1689.5	1693.8	1705.4
40°	1694.8	1650.8	1601.0	1610.4	1624.5
42.5°	1599.5	1557.1	1511.7	1524.8	1541.3
45°	1500.2	1459.8	1420.0	1437.5	1453.2
47.5°	1400.5	1360.5	1328.2	1348.7	1367.3
50°	1301.6	1263.2	1234.9	1259.7	1277.3
52.5°	1197.8	1161.1	1140.9	1167.2	1189.7
55°	1097.1	1059.9	1043.6	1074.8	1098.6
57.5°	993.1	962.6	948.6	985.1	1014.9
60°	887.5	857.4	851.4	897.7	925.9
62.5°	784.3	754.8	752.1	806.3	826.6
65°	682.6	653.5	655.8	705.7	727.6
67.5°	581.9	555.2	567.5	615.5	630.1
70°	479.3	455.5	477.1	517.6	524.8
72.5°	383.1	363.0	392.2	420.5	422.3
75°	289.5	277.1	307.2	326.0	326.1
77.5°	207.2	200.7	228.5	241.3	242.0
80°	134.3	137.3	159.2	169.2	173.5
82.5°	78.3	85.3	102.4	119.3	123.9
85°	37.7	46.0	60.9	73.9	79.2
87.5°	13.0	18.5	25.5	28.2	27.5
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	15.12	16.71	15.49	17.02	17.33	15.29	16.88	15.66	17.19	17.50
	3H	16.57	18.00	16.95	18.32	18.68	16.94	18.36	17.31	18.69	19.05
	4H	17.00	18.34	17.40	18.69	19.06	17.44	18.78	17.84	19.12	19.50
	6H	17.22	18.46	17.63	18.82	19.21	17.73	18.97	18.15	19.34	19.73
	8H	17.25	18.43	17.68	18.82	19.22	17.82	19.00	18.25	19.39	19.79
	12H	17.26	18.39	17.69	18.77	19.20	17.88	19.01	18.31	19.39	19.82
4H	2H	15.64	16.98	16.04	17.32	17.70	15.78	17.11	16.18	17.46	17.84
	3H	17.27	18.39	17.68	18.79	19.19	17.63	18.74	18.04	19.14	19.54
	4H	17.79	18.79	18.22	19.20	19.64	18.24	19.24	18.67	19.66	20.10
	6H	18.09	18.96	18.54	19.40	19.86	18.64	19.51	19.09	19.95	20.41
	8H	18.14	18.96	18.60	19.40	19.87	18.76	19.58	19.22	20.02	20.49
	12H	18.16	18.90	18.65	19.37	19.84	18.86	19.59	19.34	20.07	20.54
8H	4H	18.01	18.83	18.47	19.27	19.74	18.42	19.24	18.88	19.68	20.15
	6H	18.38	19.05	18.87	19.54	20.02	18.90	19.58	19.40	20.06	20.54
	8H	18.47	19.07	18.98	19.58	20.07	19.08	19.68	19.59	20.19	20.68
	12H	18.52	19.05	19.03	19.54	20.11	19.23	19.77	19.74	20.26	20.82
12H	4H	18.02	18.75	18.50	19.23	19.70	18.42	19.15	18.90	19.63	20.10
	6H	18.40	19.00	18.91	19.51	20.00	18.91	19.51	19.42	20.02	20.51
	8H	18.53	19.06	19.04	19.55	20.12	19.13	19.66	19.63	20.15	20.71