

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: P1499129

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499129
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-4-120-1STD-LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

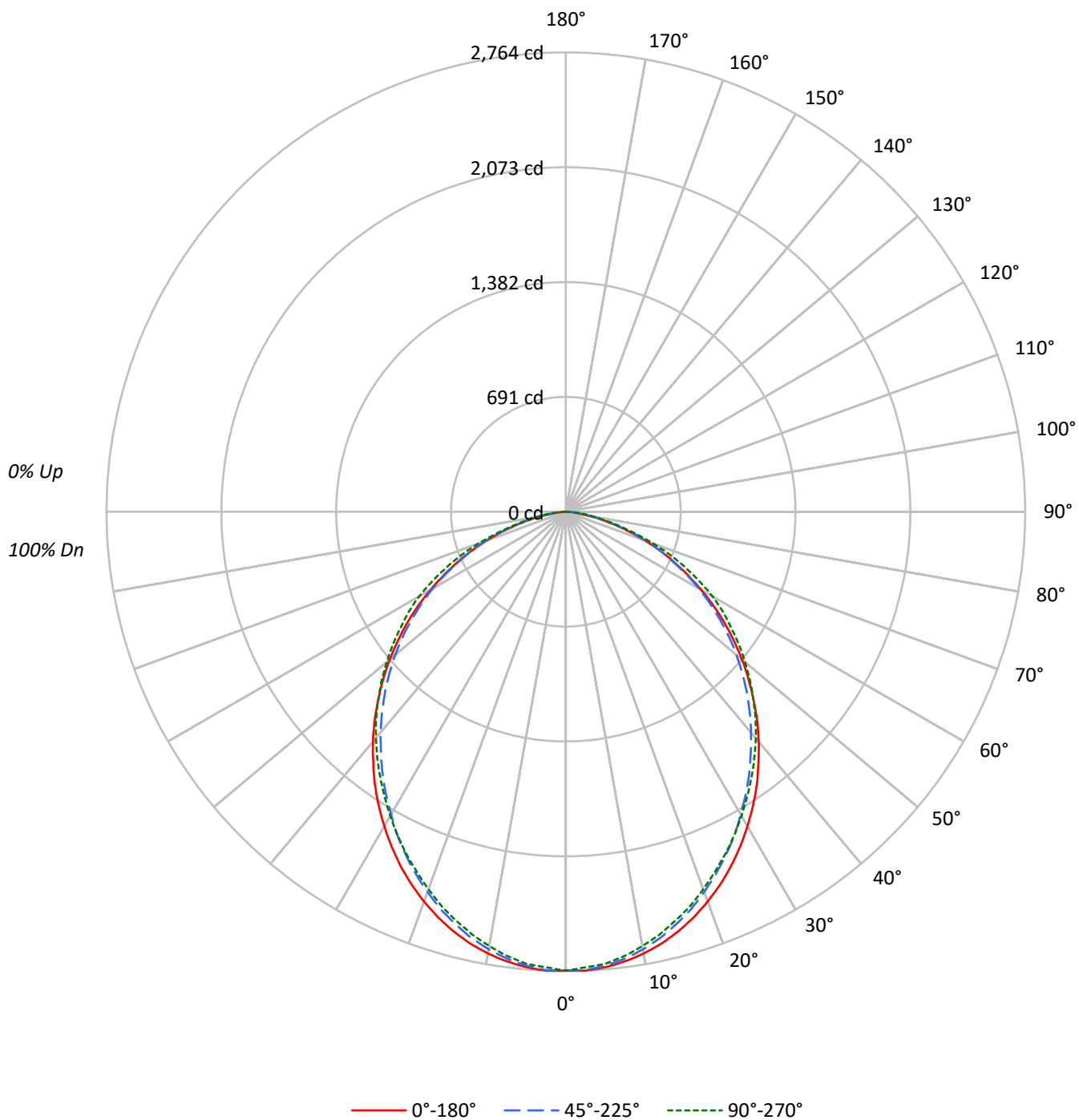
Lumens per Lamp: N/A
Luminaire Lumens: 6649.0 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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	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	39		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	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	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3714	3714	3714
5°	3715	3702	3687
10°	3687	3653	3625
15°	3640	3578	3548
20°	3574	3485	3461
25°	3492	3383	3372
30°	3394	3268	3283
35°	3291	3160	3200
40°	3172	3044	3123
45°	3038	2929	3036
50°	2897	2806	2945
55°	2734	2659	2844
60°	2532	2489	2747
65°	2300	2263	2524
70°	1992	2017	2204
75°	1584	1683	1738
80°	1090	1254	1312
85°	605	926	1175

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3038 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.3	3.9
10°-20°	724.7	10.9
20°-30°	1055.9	15.9
30°-40°	1218.6	18.3
40°-50°	1209.3	18.2
50°-60°	1037.4	15.6
60°-70°	728.2	11.0
70°-80°	344.4	5.2
80°-90°	71.3	1.1
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°	2039.8	30.7
0°-40°	3258.4	49.0
0°-60°	5505.2	82.8
0°-90°	6649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2760	2760	2760	2760	2760	
5°	2751	2748	2741	2724	2730	261
15°	2613	2601	2568	2542	2547	736
25°	2352	2324	2279	2261	2271	1083
35°	2003	1965	1924	1930	1948	1252
45°	1597	1564	1539	1572	1596	1232
55°	1165	1135	1133	1180	1212	1040
65°	722	699	711	768	793	715
75°	305	295	324	338	334	329
85°	39	47	60	72	76	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2760.4	2760.4	2760.4	2760.4	2760.4
2.5°	2763.7	2765.7	2760.4	2740.8	2743.4
5°	2750.6	2748.0	2740.8	2723.9	2729.8
7.5°	2728.3	2725.0	2712.1	2692.6	2696.6
10°	2698.9	2692.3	2673.6	2649.5	2653.5
12.5°	2660.9	2652.5	2626.4	2600.0	2604.7
15°	2613.1	2600.8	2568.4	2542.0	2547.2
17.5°	2558.1	2545.0	2506.4	2478.0	2487.9
20°	2495.8	2477.7	2433.8	2408.1	2417.4
22.5°	2427.6	2404.4	2359.2	2335.6	2344.2
25°	2352.4	2324.0	2278.9	2261.1	2271.1
27.5°	2271.2	2240.2	2195.2	2180.0	2194.0
30°	2184.8	2151.7	2103.5	2097.6	2112.9
32.5°	2096.2	2061.5	2014.6	2015.9	2031.1
35°	2003.4	1965.2	1923.6	1929.5	1948.2
37.5°	1903.9	1867.7	1827.3	1845.8	1863.8
40°	1805.7	1768.2	1733.2	1757.4	1778.1
42.5°	1703.5	1668.0	1637.6	1665.8	1689.8
45°	1596.7	1564.0	1539.4	1572.2	1595.5
47.5°	1490.1	1457.2	1440.5	1476.7	1503.2
50°	1384.0	1353.1	1340.3	1380.9	1407.0
52.5°	1273.5	1243.7	1238.8	1280.9	1312.0
55°	1165.4	1135.1	1133.4	1180.5	1212.4
57.5°	1054.1	1031.0	1030.4	1082.2	1120.7
60°	940.9	917.8	925.1	985.9	1020.8
62.5°	830.8	807.8	816.3	883.4	906.4
65°	722.3	699.0	710.7	767.9	792.9
67.5°	615.6	593.7	613.6	665.5	681.2
70°	506.3	487.0	512.6	554.5	560.2
72.5°	404.2	387.4	418.2	444.2	443.4
75°	304.7	295.1	323.8	337.8	334.4
77.5°	217.8	212.7	237.1	244.0	241.3
80°	140.7	144.0	161.9	166.2	169.3
82.5°	81.7	88.2	101.8	116.6	119.7
85°	39.2	47.0	60.0	71.6	76.1
87.5°	13.7	18.8	24.8	27.4	26.7
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	15.33	16.91	15.70	17.23	17.54	15.70	17.28	16.06	17.59	17.91
	3H	16.77	18.19	17.14	18.52	18.88	17.28	18.71	17.66	19.03	19.39
	4H	17.19	18.52	17.59	18.87	19.25	17.73	19.07	18.13	19.42	19.80
	6H	17.40	18.64	17.81	19.00	19.39	17.98	19.21	18.39	19.58	19.97
	8H	17.43	18.61	17.86	19.00	19.40	18.04	19.22	18.47	19.61	20.01
	12H	17.44	18.56	17.86	18.95	19.37	18.09	19.22	18.52	19.60	20.03
4H	2H	15.86	17.20	16.26	17.55	17.93	16.16	17.50	16.56	17.85	18.23
	3H	17.48	18.60	17.89	18.99	19.39	17.95	19.06	18.36	19.46	19.86
	4H	17.99	18.99	18.42	19.40	19.84	18.51	19.51	18.94	19.93	20.36
	6H	18.28	19.15	18.73	19.59	20.05	18.84	19.71	19.30	20.16	20.61
	8H	18.33	19.14	18.79	19.59	20.05	18.94	19.75	19.40	20.20	20.66
	12H	18.35	19.08	18.83	19.56	20.03	19.01	19.74	19.49	20.22	20.69
8H	4H	18.20	19.02	18.66	19.46	19.93	18.68	19.49	19.14	19.93	20.40
	6H	18.56	19.23	19.05	19.72	20.20	19.08	19.75	19.57	20.24	20.72
	8H	18.64	19.24	19.15	19.75	20.24	19.22	19.82	19.73	20.33	20.82
	12H	18.69	19.22	19.19	19.71	20.27	19.35	19.88	19.86	20.37	20.93
12H	4H	18.21	18.94	18.69	19.42	19.89	18.67	19.40	19.15	19.88	20.35
	6H	18.57	19.17	19.08	19.68	20.17	19.08	19.68	19.59	20.19	20.68
	8H	18.69	19.22	19.20	19.71	20.28	19.26	19.79	19.77	20.29	20.85