

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: P1498838

Luminaire Tested: MAE-G-2-120-3STD-HI-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3STD-HI-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

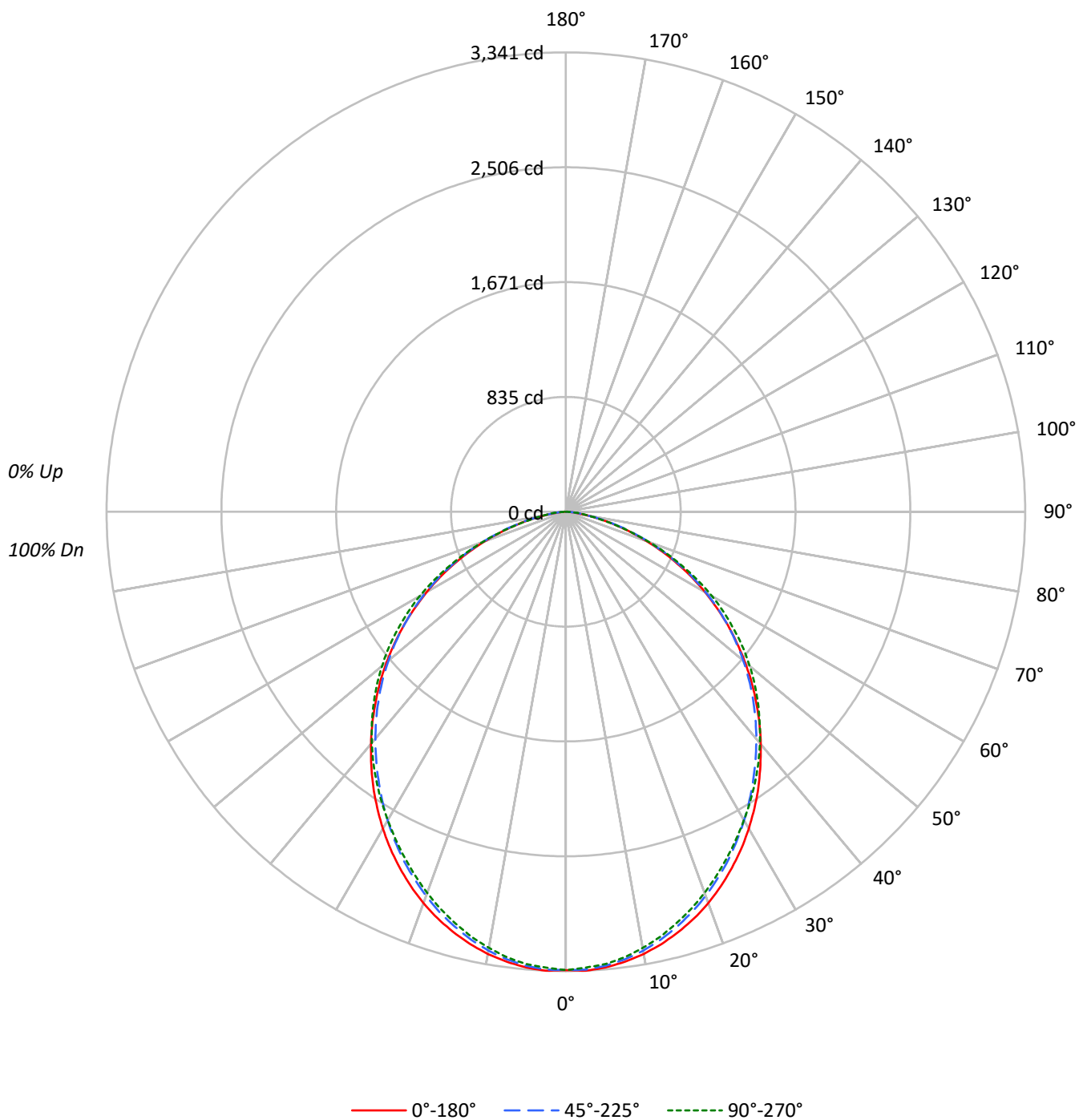
Lumens per Lamp: N/A
Luminaire Lumens: 8165.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 97.5
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	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	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	42	42	42	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8970	8970	8970
5°	8985	8955	8921
10°	8923	8855	8802
15°	8816	8701	8638
20°	8673	8514	8447
25°	8485	8298	8240
30°	8269	8055	8049
35°	8025	7809	7885
40°	7748	7570	7714
45°	7447	7327	7526
50°	7119	7054	7308
55°	6747	6740	7005
60°	6287	6343	6616
65°	5716	5814	5959
70°	4929	5079	5089
75°	3924	4084	3902
80°	2651	2758	2662
85°	1374	1797	2235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7526 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.6	3.8
10°-20°	880.0	10.8
20°-30°	1289.8	15.8
30°-40°	1498.7	18.4
40°-50°	1499.3	18.4
50°-60°	1293.9	15.8
60°-70°	902.9	11.1
70°-80°	412.1	5.0
80°-90°	74.7	0.9
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°	2483.4	30.4
0°-40°	3982.2	48.8
0°-60°	6775.3	83.0
0°-90°	8165.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8165.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3333	3333	3333	3333	3333	
5°	3326	3313	3315	3298	3303	316
15°	3165	3143	3123	3096	3100	892
25°	2858	2828	2795	2766	2775	1316
35°	2443	2406	2377	2380	2400	1526
45°	1957	1928	1925	1956	1978	1510
55°	1438	1415	1437	1478	1493	1284
65°	898	889	913	932	936	887
75°	377	377	393	384	375	405
85°	44	49	58	68	72	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3333.2	3333.2	3333.2	3333.2	3333.2
2.5°	3341.2	3328.7	3333.2	3319.8	3318.3
5°	3326.3	3313.0	3315.2	3298.0	3302.7
7.5°	3300.6	3286.0	3283.5	3264.2	3268.4
10°	3265.7	3248.1	3240.8	3218.4	3221.3
12.5°	3219.3	3200.5	3187.5	3161.4	3166.2
15°	3164.6	3143.4	3123.4	3096.5	3100.5
17.5°	3101.3	3077.3	3052.8	3022.1	3029.1
20°	3028.7	3002.3	2973.1	2940.8	2949.7
22.5°	2947.2	2918.8	2886.0	2855.9	2864.3
25°	2857.7	2828.1	2794.6	2766.5	2775.3
27.5°	2763.4	2730.3	2695.8	2673.4	2683.3
30°	2661.3	2626.7	2592.4	2575.7	2590.3
32.5°	2553.6	2518.7	2486.6	2479.4	2496.5
35°	2442.8	2405.8	2377.2	2380.0	2400.1
37.5°	2323.8	2291.3	2267.4	2280.0	2300.3
40°	2205.5	2171.9	2155.0	2174.2	2195.9
42.5°	2083.3	2052.5	2041.4	2068.2	2088.1
45°	1956.8	1927.5	1925.2	1955.7	1977.6
47.5°	1832.2	1802.7	1807.2	1841.4	1865.2
50°	1700.4	1674.8	1685.0	1724.4	1745.7
52.5°	1568.6	1544.1	1561.6	1603.7	1624.7
55°	1438.1	1415.2	1436.7	1477.9	1493.1
57.5°	1302.8	1286.8	1310.3	1347.1	1363.4
60°	1168.2	1153.7	1178.5	1213.9	1229.2
62.5°	1033.3	1022.1	1047.0	1077.0	1083.3
65°	897.7	888.7	913.1	931.6	935.9
67.5°	760.5	756.0	779.9	792.0	792.9
70°	626.5	620.9	645.5	651.9	646.8
72.5°	496.5	495.5	513.8	514.7	505.4
75°	377.4	377.4	392.8	383.8	375.3
77.5°	266.8	267.8	277.7	267.1	262.5
80°	171.1	176.1	178.0	174.9	171.8
82.5°	96.0	102.2	103.5	113.6	117.8
85°	44.5	48.8	58.2	68.1	72.4
87.5°	15.2	18.7	24.1	25.8	24.2
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	18.55	20.14	18.92	20.45	20.77	18.87	20.46	19.24	20.77	21.09
	3H	20.01	21.43	20.38	21.76	22.12	20.32	21.74	20.70	22.07	22.43
	4H	20.43	21.77	20.83	22.12	22.49	20.71	22.05	21.11	22.40	22.77
	6H	20.63	21.87	21.05	22.24	22.63	20.89	22.13	21.30	22.49	22.89
	8H	20.66	21.84	21.09	22.23	22.63	20.93	22.11	21.35	22.50	22.90
	12H	20.66	21.79	21.09	22.17	22.60	20.95	22.08	21.38	22.46	22.89
4H	2H	19.13	20.47	19.53	20.82	21.19	19.39	20.73	19.79	21.07	21.45
	3H	20.76	21.87	21.17	22.27	22.67	21.02	22.13	21.43	22.53	22.93
	4H	21.27	22.27	21.70	22.68	23.12	21.50	22.50	21.93	22.92	23.35
	6H	21.55	22.42	22.00	22.86	23.32	21.76	22.63	22.21	23.07	23.53
	8H	21.59	22.40	22.05	22.84	23.31	21.81	22.62	22.27	23.07	23.53
	12H	21.60	22.33	22.08	22.80	23.27	21.85	22.58	22.33	23.06	23.53
8H	4H	21.45	22.27	21.92	22.71	23.18	21.67	22.48	22.13	22.93	23.39
	6H	21.79	22.46	22.28	22.95	23.43	21.98	22.65	22.47	23.14	23.61
	8H	21.86	22.46	22.37	22.97	23.45	22.06	22.66	22.57	23.17	23.66
	12H	21.89	22.42	22.40	22.91	23.48	22.14	22.67	22.65	23.16	23.72
12H	4H	21.45	22.18	21.93	22.66	23.13	21.67	22.39	22.15	22.87	23.34
	6H	21.79	22.39	22.30	22.90	23.38	21.97	22.57	22.48	23.08	23.57
	8H	21.89	22.42	22.40	22.91	23.47	22.09	22.62	22.60	23.11	23.68