

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: P1498937

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498937
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-4-120-1HI-LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

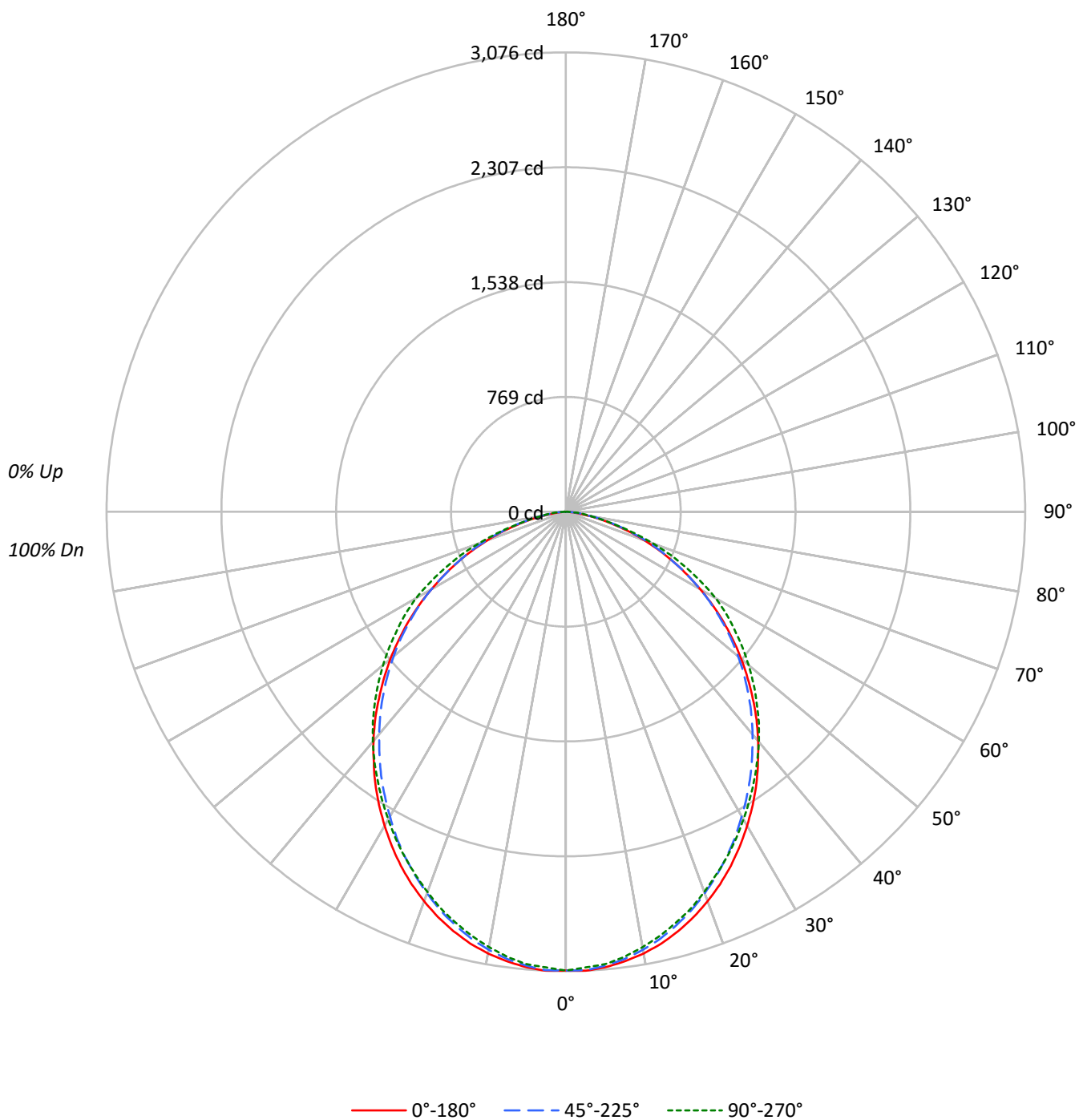
Lumens per Lamp: N/A
Luminaire Lumens: 7434.0 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	87	87	87	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	67	61	56	64	59	55	55	55	53
5	78	65	56	50	76	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	28	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4134	4134	4134
5°	4134	4120	4106
10°	4103	4069	4044
15°	4049	3990	3968
20°	3974	3892	3880
25°	3882	3783	3788
30°	3771	3659	3696
35°	3654	3542	3610
40°	3520	3416	3531
45°	3369	3290	3440
50°	3211	3154	3344
55°	3027	2990	3233
60°	2800	2801	3121
65°	2540	2541	2846
70°	2196	2251	2449
75°	1743	1853	1876
80°	1194	1344	1361
85°	661	968	1203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.7	3.9
10°-20°	808.3	10.9
20°-30°	1180.3	15.9
30°-40°	1364.9	18.4
40°-50°	1357.0	18.3
50°-60°	1165.6	15.7
60°-70°	815.4	11.0
70°-80°	378.4	5.1
80°-90°	75.3	1.0
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°	2277.4	30.6
0°-40°	3642.3	49.0
0°-60°	6164.9	82.9
0°-90°	7434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3072	3072	3072	3072	3072	
5°	3061	3058	3051	3034	3040	290
15°	2907	2895	2864	2841	2848	819
25°	2615	2588	2548	2537	2552	1203
35°	2225	2189	2156	2173	2198	1390
45°	1771	1743	1729	1777	1808	1366
55°	1291	1264	1275	1338	1378	1152
65°	798	778	798	865	894	790
75°	335	327	356	367	361	362
85°	43	51	63	74	78	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3072.2	3072.2	3072.2	3072.2	3072.2
2.5°	3076.0	3078.0	3072.2	3051.3	3053.4
5°	3061.1	3058.0	3050.8	3033.9	3040.3
7.5°	3036.1	3032.8	3019.9	3000.8	3005.2
10°	3003.1	2996.5	2978.2	2955.0	2959.9
12.5°	2960.6	2952.6	2927.5	2902.9	2908.9
15°	2906.9	2895.2	2864.5	2841.3	2848.3
17.5°	2845.2	2833.5	2797.6	2772.8	2785.3
20°	2775.3	2758.5	2718.2	2697.0	2709.5
22.5°	2699.0	2677.2	2636.5	2618.2	2630.5
25°	2614.9	2587.8	2548.5	2537.4	2551.5
27.5°	2523.8	2494.6	2456.7	2448.8	2467.7
30°	2427.0	2396.2	2355.2	2358.3	2378.9
32.5°	2328.2	2296.2	2256.8	2268.5	2289.1
35°	2224.6	2189.1	2156.4	2173.1	2198.1
37.5°	2113.4	2080.4	2049.4	2080.9	2105.2
40°	2004.0	1969.6	1944.9	1983.1	2010.5
42.5°	1890.2	1858.2	1838.6	1881.2	1912.7
45°	1770.8	1742.6	1729.2	1776.8	1807.7
47.5°	1652.0	1623.2	1618.6	1670.1	1704.6
50°	1533.9	1507.5	1506.7	1563.1	1597.6
52.5°	1411.2	1385.5	1393.2	1450.9	1491.0
55°	1290.6	1264.3	1274.8	1338.0	1378.4
57.5°	1166.7	1148.6	1159.2	1226.7	1274.5
60°	1040.5	1021.9	1040.9	1117.4	1159.9
62.5°	918.3	899.3	917.7	999.6	1026.2
65°	797.7	778.0	798.2	864.8	893.9
67.5°	679.8	660.5	688.1	746.2	763.7
70°	558.3	541.7	572.3	617.7	622.6
72.5°	445.5	430.5	464.4	489.9	486.9
75°	335.2	327.4	356.5	367.4	360.8
77.5°	239.3	235.1	258.2	260.6	254.7
80°	154.1	157.9	173.5	173.3	175.6
82.5°	89.4	95.9	107.1	121.1	123.3
85°	42.8	50.6	62.7	73.8	77.9
87.5°	15.1	20.2	25.7	28.3	27.6
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	15.69	17.27	16.05	17.58	17.90	16.18	17.77	16.55	18.08	18.39
	3H	17.11	18.53	17.49	18.86	19.22	17.73	19.15	18.11	19.48	19.84
	4H	17.53	18.86	17.93	19.21	19.59	18.15	19.49	18.55	19.84	20.21
	6H	17.73	18.97	18.15	19.33	19.73	18.36	19.59	18.77	19.96	20.35
	8H	17.76	18.94	18.19	19.33	19.73	18.41	19.59	18.83	19.98	20.38
	12H	17.77	18.89	18.20	19.28	19.70	18.44	19.57	18.87	19.95	20.38
4H	2H	16.23	17.57	16.63	17.92	18.29	16.64	17.98	17.04	18.32	18.70
	3H	17.84	18.95	18.25	19.35	19.75	18.39	19.50	18.80	19.90	20.30
	4H	18.34	19.34	18.77	19.75	20.19	18.91	19.91	19.34	20.32	20.76
	6H	18.62	19.49	19.08	19.93	20.39	19.20	20.07	19.65	20.51	20.97
	8H	18.67	19.48	19.13	19.92	20.39	19.27	20.09	19.74	20.53	21.00
	12H	18.69	19.41	19.17	19.89	20.36	19.34	20.06	19.82	20.54	21.01
8H	4H	18.54	19.36	19.01	19.80	20.27	19.06	19.88	19.53	20.32	20.79
	6H	18.89	19.56	19.38	20.05	20.53	19.42	20.09	19.91	20.58	21.06
	8H	18.97	19.57	19.48	20.08	20.56	19.54	20.14	20.05	20.65	21.13
	12H	19.01	19.54	19.52	20.03	20.60	19.64	20.17	20.15	20.66	21.23
12H	4H	18.55	19.28	19.03	19.75	20.22	19.06	19.79	19.54	20.26	20.73
	6H	18.90	19.50	19.41	20.01	20.49	19.41	20.02	19.93	20.53	21.01
	8H	19.01	19.54	19.52	20.03	20.60	19.57	20.10	20.08	20.59	21.16