

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: P1498670

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498670
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-2-120-3HI-LO-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

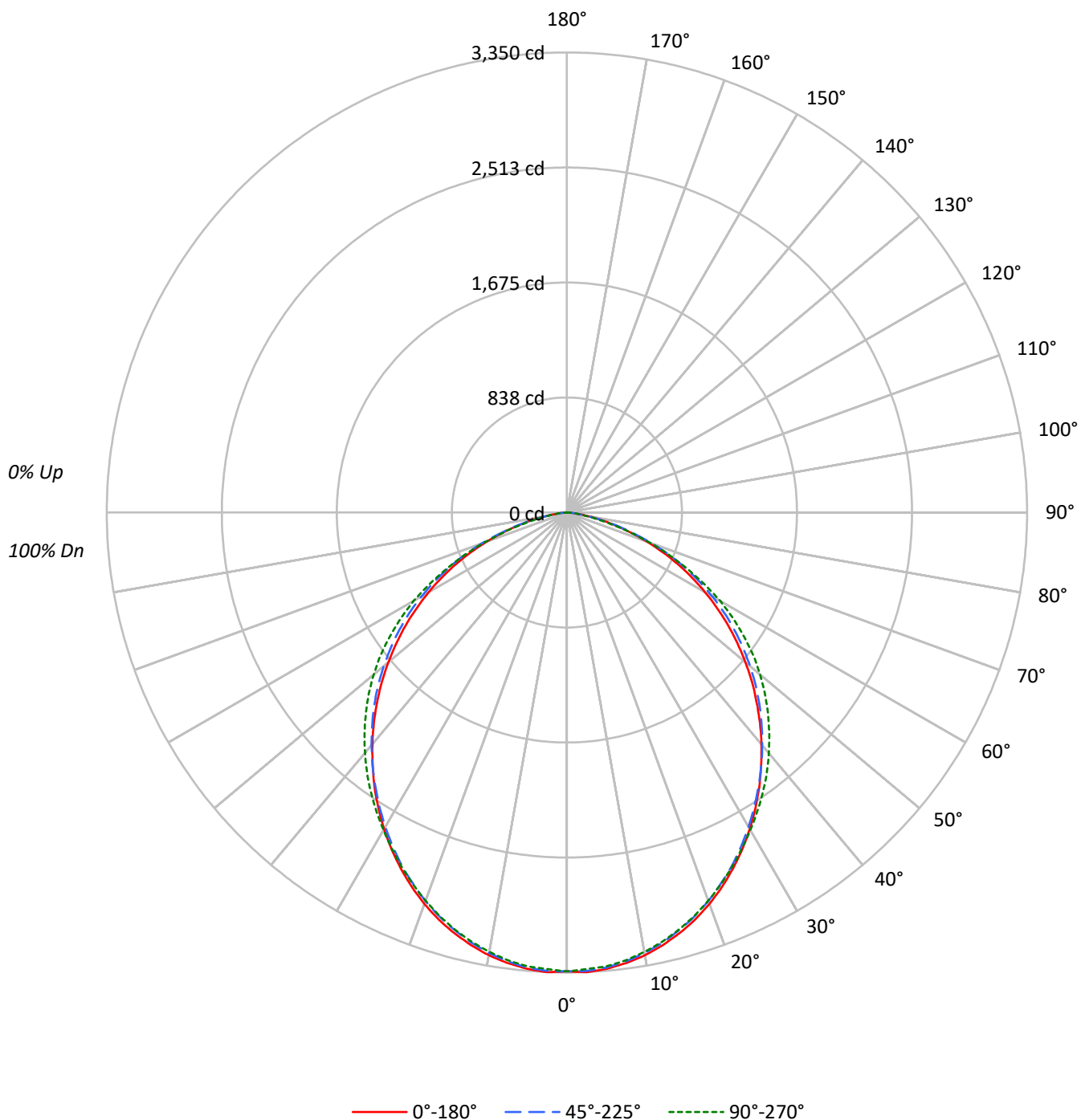
Lumens per Lamp: N/A
Luminaire Lumens: 8296.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 92.3
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
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	98	107	103	99	96	99	96	93		95	93	90		91
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8991	8991	8991
5°	9008	8982	8960
10°	8945	8902	8877
15°	8835	8776	8762
20°	8687	8621	8616
25°	8494	8433	8451
30°	8272	8215	8298
35°	8021	7990	8172
40°	7739	7771	8035
45°	7432	7545	7877
50°	7098	7284	7686
55°	6723	6977	7377
60°	6255	6576	6932
65°	5673	6016	6116
70°	4873	5171	5032
75°	3858	4003	3565
80°	2572	2459	2081
85°	1297	1402	1606

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7877 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.9	3.8
10°-20°	887.6	10.7
20°-30°	1308.5	15.8
30°-40°	1529.0	18.4
40°-50°	1537.9	18.5
50°-60°	1332.5	16.1
60°-70°	922.2	11.1
70°-80°	400.5	4.8
80°-90°	62.8	0.8
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°	2510.9	30.3
0°-40°	4040.0	48.7
0°-60°	6910.4	83.3
0°-90°	8296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3341	3341	3341	3341	3341	
5°	3335	3319	3325	3313	3317	316
15°	3171	3153	3150	3139	3145	894
25°	2861	2843	2840	2831	2846	1317
35°	2442	2424	2432	2458	2488	1525
45°	1953	1946	1983	2038	2070	1507
55°	1433	1431	1487	1551	1572	1279
65°	891	901	945	959	960	881
75°	371	380	385	359	343	399
85°	42	43	45	50	52	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3341.2	3341.2	3341.2	3341.2	3341.2
2.5°	3350.3	3333.9	3341.2	3332.1	3327.9
5°	3334.9	3318.9	3325.3	3313.4	3317.1
7.5°	3308.9	3292.7	3296.7	3284.7	3288.7
10°	3273.4	3255.4	3257.7	3245.2	3248.8
12.5°	3226.3	3208.8	3209.1	3195.6	3202.1
15°	3171.2	3152.8	3150.0	3138.9	3145.2
17.5°	3107.1	3088.1	3085.2	3071.4	3081.1
20°	3033.5	3014.2	3010.6	2995.4	3008.8
22.5°	2951.2	2932.1	2926.9	2915.6	2929.9
25°	2860.6	2842.9	2840.1	2831.2	2846.3
27.5°	2765.3	2745.8	2744.8	2742.6	2759.0
30°	2662.2	2643.0	2643.8	2648.0	2670.5
32.5°	2553.2	2535.5	2539.7	2554.8	2580.4
35°	2441.7	2423.5	2432.2	2458.2	2487.7
37.5°	2321.6	2309.0	2323.8	2360.3	2390.5
40°	2203.1	2189.5	2212.3	2255.9	2287.2
42.5°	2080.4	2070.4	2098.9	2150.6	2180.3
45°	1953.0	1945.5	1982.6	2037.6	2069.9
47.5°	1828.9	1820.0	1863.4	1922.2	1956.4
50°	1695.6	1691.5	1739.9	1803.6	1836.0
52.5°	1564.7	1560.4	1614.4	1680.7	1711.1
55°	1433.0	1430.9	1487.1	1550.7	1572.4
57.5°	1297.3	1301.8	1357.6	1412.2	1433.9
60°	1162.3	1167.7	1221.9	1269.9	1288.0
62.5°	1027.3	1035.7	1085.1	1121.0	1124.8
65°	890.9	900.8	944.8	959.1	960.5
67.5°	753.3	766.0	802.7	804.6	801.5
70°	619.3	629.2	657.2	651.1	639.5
72.5°	489.1	501.2	514.5	500.5	484.1
75°	371.1	380.5	385.0	359.0	342.9
77.5°	261.0	267.1	262.8	235.4	223.9
80°	166.0	171.5	158.7	142.0	134.3
82.5°	91.9	95.8	84.9	87.0	88.4
85°	42.0	43.1	45.4	50.2	52.0
87.5°	14.3	16.0	18.3	19.2	17.6
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	18.56	20.14	18.93	20.46	20.77	19.15	20.73	19.52	21.05	21.36
	3H	20.00	21.42	20.37	21.75	22.11	20.49	21.92	20.87	22.24	22.60
	4H	20.41	21.74	20.81	22.09	22.47	20.81	22.15	21.21	22.49	22.87
	6H	20.60	21.83	21.01	22.20	22.59	20.91	22.15	21.33	22.51	22.91
	8H	20.62	21.80	21.05	22.19	22.59	20.92	22.10	21.35	22.49	22.89
	12H	20.62	21.74	21.05	22.12	22.55	20.92	22.04	21.35	22.42	22.85
4H	2H	19.17	20.51	19.57	20.86	21.23	19.65	20.99	20.05	21.33	21.71
	3H	20.78	21.89	21.19	22.29	22.69	21.17	22.28	21.58	22.68	23.08
	4H	21.27	22.27	21.70	22.69	23.12	21.56	22.56	21.99	22.97	23.41
	6H	21.54	22.40	21.99	22.85	23.30	21.72	22.59	22.18	23.03	23.49
	8H	21.57	22.38	22.03	22.82	23.29	21.74	22.55	22.20	22.99	23.46
	12H	21.58	22.30	22.06	22.78	23.25	21.75	22.47	22.23	22.95	23.42
8H	4H	21.44	22.25	21.91	22.70	23.16	21.71	22.52	22.17	22.96	23.43
	6H	21.75	22.42	22.25	22.91	23.39	21.90	22.57	22.40	23.06	23.54
	8H	21.81	22.41	22.32	22.92	23.40	21.94	22.54	22.45	23.04	23.53
	12H	21.84	22.36	22.35	22.85	23.42	21.97	22.50	22.48	22.99	23.55
12H	4H	21.43	22.16	21.92	22.64	23.11	21.70	22.43	22.18	22.90	23.37
	6H	21.74	22.34	22.25	22.85	23.33	21.89	22.49	22.40	23.00	23.49
	8H	21.83	22.35	22.33	22.84	23.41	21.95	22.48	22.46	22.97	23.54