

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: P1498622

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498622
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-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

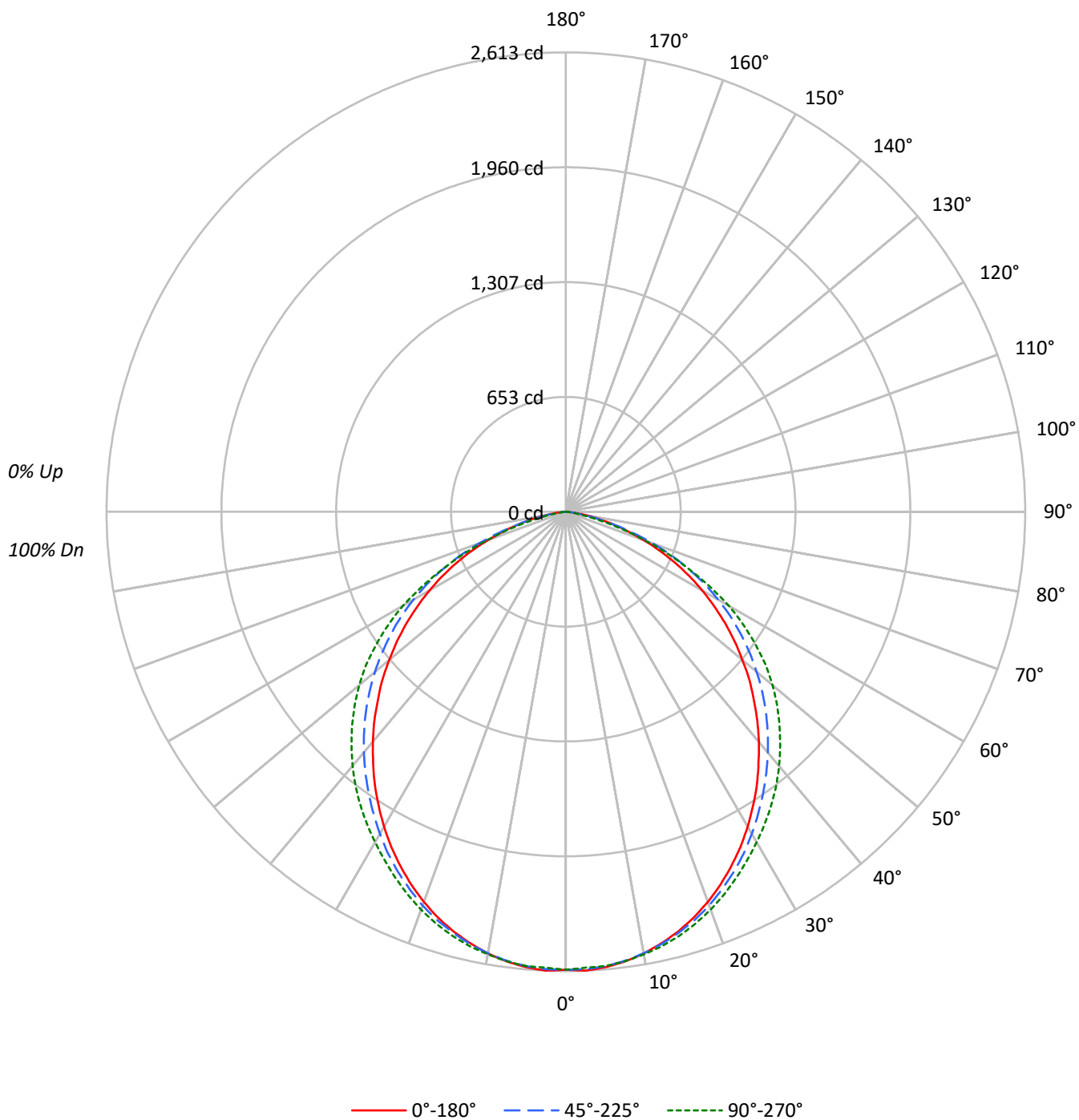
Lumens per Lamp: N/A
Luminaire Lumens: 6601.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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	102	98	107	103	100	96	99	96	93		95	93	91		92
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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	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°	7008	7008	7008
5°	7024	7009	7006
10°	6972	6969	6985
15°	6883	6905	6955
20°	6763	6825	6896
25°	6606	6712	6818
30°	6427	6573	6745
35°	6225	6423	6694
40°	5999	6278	6628
45°	5754	6123	6543
50°	5488	5934	6426
55°	5193	5704	6179
60°	4820	5389	5766
65°	4352	4916	4939
70°	3714	4127	3838
75°	2917	3011	2361
80°	1903	1550	914
85°	911	611	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6543 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.0	3.7
10°-20°	698.4	10.6
20°-30°	1038.8	15.7
30°-40°	1224.1	18.5
40°-50°	1241.1	18.8
50°-60°	1081.4	16.4
60°-70°	739.6	11.2
70°-80°	297.1	4.5
80°-90°	34.4	0.5
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°	1983.2	30.0
0°-40°	3207.3	48.6
0°-60°	5529.8	83.8
0°-90°	6601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6601.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2604	2604	2604	2604	2604	
5°	2600	2584	2595	2592	2594	247
15°	2471	2460	2478	2489	2497	696
25°	2225	2226	2260	2277	2296	1024
35°	1895	1903	1955	2003	2038	1184
45°	1512	1532	1609	1681	1719	1167
55°	1107	1130	1216	1292	1317	988
65°	684	714	772	778	776	676
75°	281	299	290	249	227	301
85°	30	26	20	17	16	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2604.4	2604.4	2604.4	2604.4	2604.4
2.5°	2612.8	2595.4	2604.4	2602.6	2595.9
5°	2600.2	2584.5	2594.7	2591.8	2593.5
7.5°	2579.7	2565.3	2576.1	2575.6	2578.5
10°	2551.5	2537.0	2550.3	2552.7	2556.3
12.5°	2514.1	2502.1	2518.3	2523.1	2530.3
15°	2470.7	2459.9	2478.5	2488.8	2496.6
17.5°	2420.1	2411.1	2435.1	2444.9	2455.6
20°	2361.7	2355.2	2383.4	2392.4	2408.1
22.5°	2296.7	2293.1	2322.5	2336.4	2354.5
25°	2225.0	2225.7	2260.5	2276.9	2296.1
27.5°	2149.8	2151.0	2190.8	2213.5	2234.0
30°	2068.5	2072.1	2115.4	2143.8	2170.8
32.5°	1982.3	1989.5	2036.5	2075.1	2105.2
35°	1895.0	1903.4	1955.3	2003.4	2037.7
37.5°	1800.5	1814.4	1872.8	1930.0	1965.4
40°	1707.8	1721.6	1787.2	1850.5	1886.7
42.5°	1612.1	1629.5	1699.4	1769.8	1804.7
45°	1512.1	1532.5	1609.0	1681.3	1719.2
47.5°	1416.3	1434.4	1515.0	1590.4	1629.5
50°	1310.9	1333.8	1417.5	1496.4	1535.0
52.5°	1210.4	1231.4	1317.5	1398.3	1433.2
55°	1106.8	1130.3	1215.8	1292.2	1317.0
57.5°	1000.8	1029.1	1111.6	1175.5	1198.9
60°	895.5	923.7	1001.4	1053.9	1071.3
62.5°	790.6	820.8	888.8	923.7	923.7
65°	683.5	714.2	772.0	778.0	775.6
67.5°	576.3	607.1	651.0	640.1	632.9
70°	472.1	498.6	524.5	504.6	487.8
72.5°	370.9	396.2	400.5	371.6	350.4
75°	280.6	299.3	289.6	248.8	227.1
77.5°	195.7	206.6	186.1	144.5	127.1
80°	122.8	127.6	100.0	70.4	59.0
82.5°	66.3	66.8	43.4	35.5	33.1
85°	29.5	26.5	19.8	17.4	15.7
87.5°	10.2	9.1	7.2	6.7	5.5
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	17.69	19.27	18.06	19.59	19.90	18.67	20.26	19.04	20.57	20.89
	3H	19.10	20.52	19.48	20.85	21.21	19.88	21.30	20.26	21.63	21.99
	4H	19.49	20.83	19.89	21.18	21.55	20.10	21.43	20.49	21.78	22.15
	6H	19.67	20.90	20.08	21.27	21.66	20.11	21.35	20.52	21.71	22.10
	8H	19.68	20.86	20.11	21.25	21.65	20.09	21.26	20.52	21.65	22.05
	12H	19.68	20.80	20.11	21.18	21.61	20.06	21.19	20.49	21.57	22.00
4H	2H	18.36	19.70	18.76	20.04	20.42	19.15	20.49	19.55	20.83	21.21
	3H	19.93	21.04	20.34	21.44	21.84	20.52	21.63	20.93	22.03	22.43
	4H	20.41	21.40	20.84	21.82	22.25	20.79	21.79	21.23	22.20	22.64
	6H	20.65	21.51	21.10	21.95	22.41	20.85	21.71	21.30	22.15	22.61
	8H	20.67	21.47	21.13	21.92	22.38	20.82	21.63	21.28	22.07	22.54
	12H	20.67	21.39	21.15	21.87	22.34	20.80	21.52	21.28	22.00	22.47
8H	4H	20.55	21.36	21.01	21.80	22.27	20.91	21.72	21.38	22.16	22.63
	6H	20.83	21.49	21.32	21.98	22.46	20.97	21.63	21.47	22.13	22.60
	8H	20.87	21.46	21.38	21.97	22.46	20.95	21.54	21.46	22.05	22.54
	12H	20.88	21.40	21.39	21.90	22.46	20.94	21.46	21.44	21.95	22.51
12H	4H	20.53	21.25	21.02	21.73	22.20	20.90	21.62	21.38	22.10	22.57
	6H	20.80	21.39	21.31	21.90	22.39	20.95	21.54	21.46	22.05	22.54
	8H	20.86	21.39	21.37	21.88	22.44	20.95	21.47	21.46	21.96	22.53