

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: P1499174

Luminaire Tested: MAE-G-4-120-1STD-STD-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499174
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-STD-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

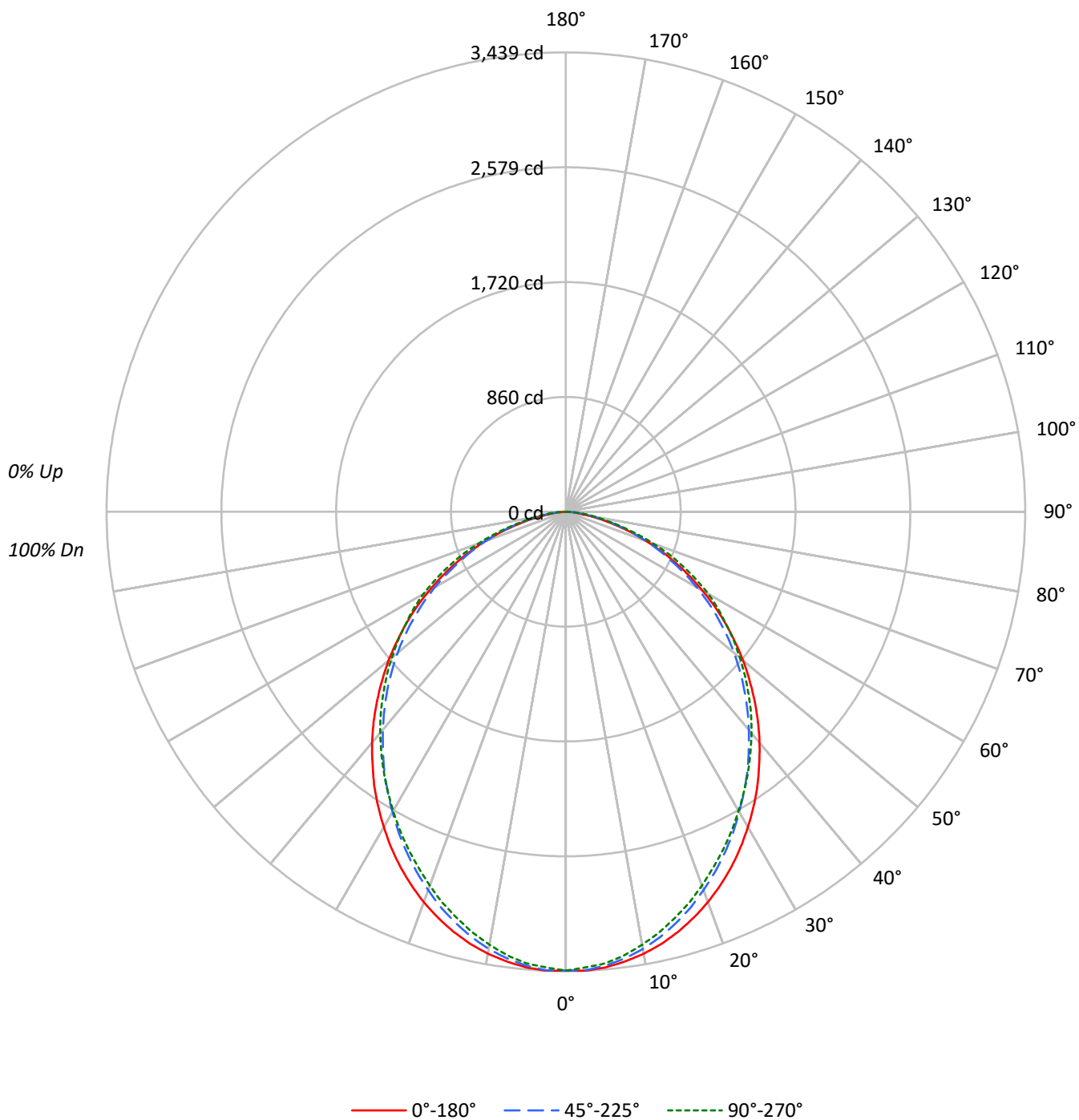
Lumens per Lamp: N/A
Luminaire Lumens: 8220.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81	77	74	72
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56		66	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	29		39	33	28		38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4622	4622	4622
5°	4623	4606	4583
10°	4590	4540	4497
15°	4532	4439	4386
20°	4453	4315	4264
25°	4354	4181	4139
30°	4235	4032	4017
35°	4108	3891	3904
40°	3962	3743	3798
45°	3800	3597	3681
50°	3627	3441	3559
55°	3426	3259	3431
60°	3179	3050	3317
65°	2893	2779	3084
70°	2511	2498	2748
75°	2004	2127	2257
80°	1385	1642	1791
85°	773	1252	1629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3800 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.4	3.9
10°-20°	898.9	10.9
20°-30°	1305.7	15.9
30°-40°	1502.7	18.3
40°-50°	1487.3	18.1
50°-60°	1273.5	15.5
60°-70°	898.2	10.9
70°-80°	436.4	5.3
80°-90°	95.0	1.2
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°	2527.0	30.7
0°-40°	4029.7	49.0
0°-60°	6790.5	82.6
0°-90°	8220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8220.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3435	3435	3435	3435	3435	
5°	3423	3420	3410	3386	3394	325
15°	3254	3236	3186	3144	3149	917
25°	2933	2890	2816	2780	2788	1350
35°	2501	2442	2369	2360	2377	1563
45°	1997	1943	1890	1914	1934	1540
55°	1460	1411	1389	1431	1462	1304
65°	909	870	873	939	969	899
75°	385	369	409	434	434	416
85°	50	61	81	98	106	71
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3435.0	3435.0	3435.0	3435.0	3435.0
2.5°	3438.9	3441.8	3435.0	3409.3	3413.7
5°	3423.2	3420.3	3410.0	3385.9	3393.5
7.5°	3395.9	3391.2	3372.8	3344.2	3349.2
10°	3359.5	3350.1	3322.8	3287.1	3291.4
12.5°	3312.6	3300.0	3261.4	3221.0	3225.4
15°	3253.7	3235.5	3186.5	3144.1	3148.6
17.5°	3186.1	3165.5	3106.2	3060.0	3069.8
20°	3109.7	3081.7	3013.4	2969.7	2978.1
22.5°	3025.4	2990.2	2918.6	2876.4	2883.0
25°	2932.6	2889.8	2816.4	2780.3	2788.2
27.5°	2832.5	2785.5	2710.1	2677.0	2689.2
30°	2725.9	2675.2	2595.3	2572.6	2585.7
32.5°	2616.2	2562.5	2483.6	2469.0	2482.2
35°	2501.1	2442.5	2369.1	2360.3	2376.8
37.5°	2377.9	2321.5	2249.0	2254.7	2270.1
40°	2256.0	2197.5	2131.2	2143.8	2162.4
42.5°	2129.1	2072.8	2012.3	2029.8	2051.6
45°	1997.0	1943.2	1890.4	1913.5	1934.4
47.5°	1864.3	1811.1	1768.2	1795.3	1820.1
50°	1732.6	1681.5	1643.9	1676.9	1700.3
52.5°	1594.4	1545.8	1518.8	1553.6	1583.7
55°	1460.5	1410.9	1389.2	1430.6	1462.5
57.5°	1322.0	1281.4	1262.6	1311.4	1351.1
60°	1181.4	1141.3	1133.3	1194.9	1232.5
62.5°	1044.1	1004.7	1001.1	1073.3	1100.3
65°	908.7	870.0	873.0	939.4	968.6
67.5°	774.7	739.1	755.4	819.3	838.7
70°	638.2	606.4	635.1	688.9	698.6
72.5°	510.0	483.2	522.0	559.8	562.2
75°	385.4	368.9	409.1	433.9	434.1
77.5°	275.8	267.1	304.2	321.2	322.1
80°	178.8	182.9	211.9	225.3	231.1
82.5°	104.3	113.5	136.3	158.8	164.8
85°	50.1	61.2	81.1	98.4	105.5
87.5°	17.3	24.7	33.8	37.5	36.5
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	16.12	17.70	16.48	18.01	18.33	16.29	17.87	16.65	18.18	18.50
	3H	17.57	18.99	17.94	19.32	19.68	17.93	19.36	18.31	19.68	20.04
	4H	17.99	19.33	18.39	19.68	20.06	18.43	19.77	18.83	20.12	20.50
	6H	18.21	19.45	18.63	19.82	20.21	18.73	19.97	19.14	20.33	20.72
	8H	18.25	19.43	18.67	19.82	20.22	18.82	20.00	19.24	20.38	20.78
	12H	18.25	19.38	18.68	19.76	20.19	18.88	20.01	19.31	20.39	20.82
4H	2H	16.63	17.97	17.03	18.32	18.69	16.77	18.11	17.17	18.46	18.83
	3H	18.27	19.38	18.68	19.78	20.18	18.62	19.73	19.03	20.13	20.53
	4H	18.78	19.78	19.21	20.20	20.64	19.23	20.24	19.67	20.65	21.09
	6H	19.08	19.95	19.54	20.40	20.85	19.63	20.51	20.09	20.95	21.41
	8H	19.14	19.95	19.60	20.40	20.86	19.75	20.57	20.22	21.01	21.48
	12H	19.16	19.89	19.64	20.37	20.84	19.85	20.58	20.33	21.06	21.53
8H	4H	19.00	19.82	19.47	20.26	20.73	19.41	20.23	19.88	20.67	21.14
	6H	19.37	20.05	19.87	20.54	21.01	19.89	20.57	20.39	21.06	21.54
	8H	19.46	20.06	19.97	20.57	21.06	20.07	20.67	20.58	21.18	21.67
	12H	19.51	20.05	20.02	20.54	21.10	20.23	20.76	20.74	21.25	21.82
12H	4H	19.02	19.75	19.50	20.22	20.69	19.41	20.15	19.90	20.62	21.09
	6H	19.39	20.00	19.90	20.51	20.99	19.90	20.51	20.41	21.01	21.50
	8H	19.52	20.06	20.03	20.55	21.11	20.12	20.65	20.63	21.14	21.71