

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: P1499702

Luminaire Tested: MAE-G-4-120-3STD-HI-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499702
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-4-120-3STD-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

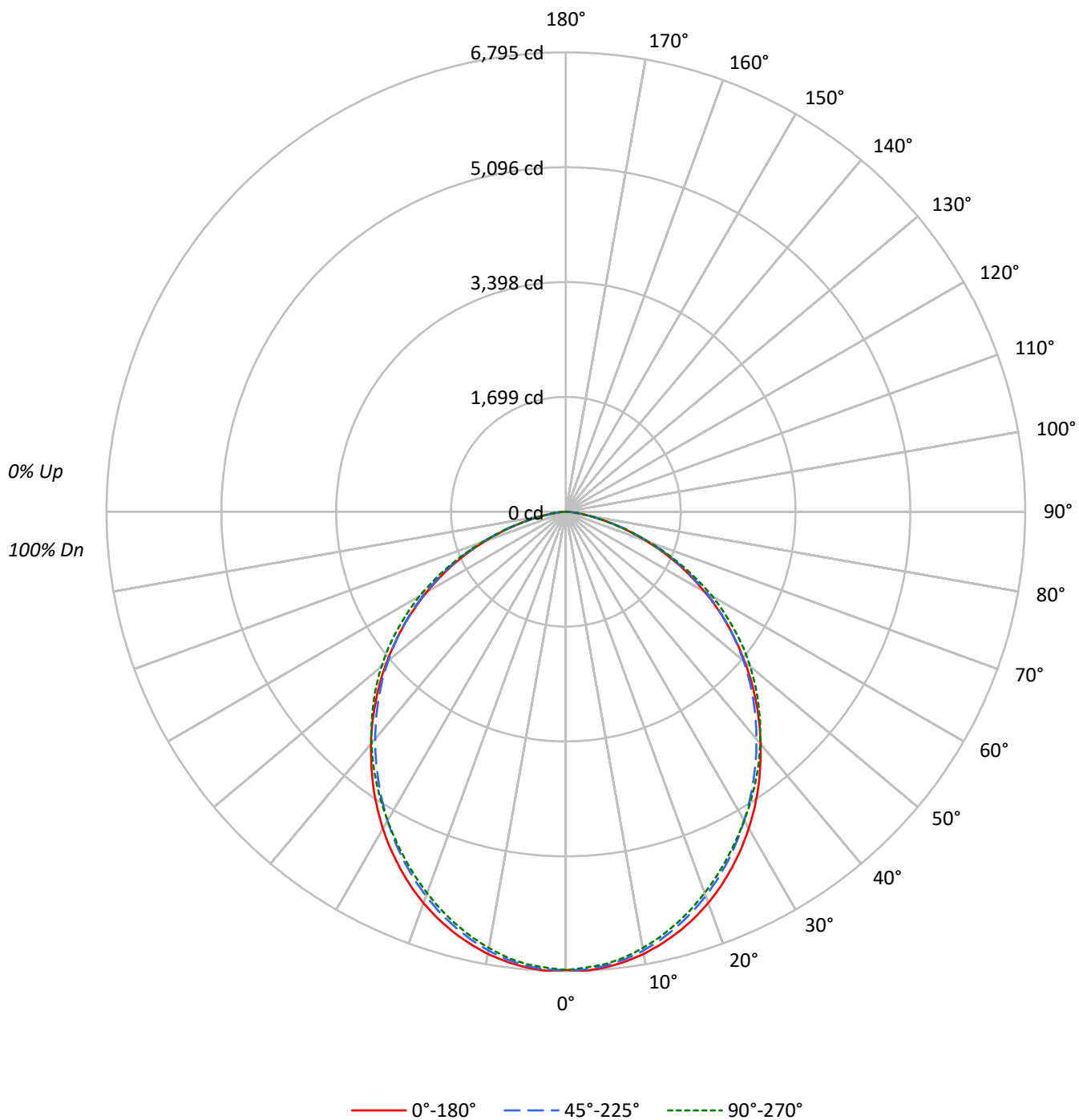
Lumens per Lamp: N/A
Luminaire Lumens: 16615.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 191.3
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	92	90		91
2	100	92	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		66	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	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9121	9121	9121
5°	9137	9106	9073
10°	9074	9006	8953
15°	8965	8850	8788
20°	8819	8661	8596
25°	8627	8443	8388
30°	8408	8197	8195
35°	8159	7948	8029
40°	7877	7706	7857
45°	7571	7459	7667
50°	7237	7183	7447
55°	6859	6864	7139
60°	6391	6459	6740
65°	5810	5920	6066
70°	5010	5168	5172
75°	3987	4148	3952
80°	2693	2790	2681
85°	1396	1809	2245

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7667 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.9	3.8
10°-20°	1790.1	10.8
20°-30°	2624.4	15.8
30°-40°	3050.4	18.4
40°-50°	3052.2	18.4
50°-60°	2634.6	15.9
60°-70°	1837.7	11.1
70°-80°	837.0	5.0
80°-90°	150.8	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°	5052.4	30.4
0°-40°	8102.8	48.8
0°-60°	13789.6	83.0
0°-90°	16615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6779	6779	6779	6779	6779	
5°	6765	6738	6742	6708	6717	642
15°	6436	6393	6354	6300	6309	1814
25°	5811	5752	5687	5631	5650	2676
35°	4967	4894	4839	4847	4888	3103
45°	3979	3921	3920	3984	4029	3070
55°	2924	2879	2926	3012	3043	2610
65°	1825	1808	1860	1897	1905	1803
75°	767	768	798	778	760	824
85°	90	99	117	137	145	133
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6778.7	6778.7	6778.7	6778.7	6778.7
2.5°	6795.0	6769.4	6778.7	6751.8	6748.7
5°	6764.9	6737.6	6742.1	6707.6	6717.3
7.5°	6712.5	6682.6	6678.2	6639.7	6648.1
10°	6641.4	6605.7	6591.7	6546.8	6552.9
12.5°	6546.9	6508.9	6483.7	6431.7	6441.5
15°	6435.7	6392.8	6353.5	6300.5	6308.8
17.5°	6306.9	6258.7	6210.7	6149.8	6164.3
20°	6159.2	6106.2	6049.0	5984.7	6003.3
22.5°	5993.6	5936.7	5872.3	5812.7	5830.5
25°	5811.3	5752.2	5687.0	5631.3	5649.9
27.5°	5619.4	5553.5	5486.1	5442.5	5463.4
30°	5411.8	5342.9	5276.0	5244.0	5274.4
32.5°	5192.7	5123.3	5061.2	5048.5	5084.1
35°	4967.3	4893.8	4839.0	4846.7	4888.4
37.5°	4725.1	4661.0	4615.7	4643.5	4685.6
40°	4484.8	4418.2	4387.3	4428.4	4473.2
42.5°	4236.1	4175.5	4156.3	4212.9	4254.3
45°	3979.0	3921.3	3920.0	3984.2	4029.4
47.5°	3725.5	3667.2	3680.0	3751.7	3801.1
50°	3457.3	3407.1	3431.4	3513.6	3557.9
52.5°	3189.3	3141.5	3180.2	3267.9	3311.4
55°	2923.8	2879.0	2926.0	3011.8	3043.2
57.5°	2648.8	2618.0	2668.6	2744.9	2778.6
60°	2374.9	2347.3	2400.4	2473.4	2504.7
62.5°	2100.6	2079.7	2132.4	2194.0	2206.6
65°	1824.9	1808.2	1859.5	1896.9	1905.4
67.5°	1545.7	1538.1	1587.7	1611.7	1613.1
70°	1273.5	1263.4	1313.7	1325.6	1314.6
72.5°	1008.9	1008.1	1044.8	1045.4	1025.7
75°	766.9	767.7	798.0	778.3	760.3
77.5°	541.9	544.4	563.3	540.4	530.5
80°	347.5	357.9	360.1	352.9	346.0
82.5°	195.0	207.1	208.8	228.5	237.1
85°	90.4	98.7	117.2	137.0	145.4
87.5°	30.7	37.8	48.4	52.0	48.7
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	18.61	20.20	18.98	20.51	20.82	18.94	20.53	19.31	20.84	21.16
	3H	20.06	21.49	20.44	21.82	22.18	20.38	21.81	20.76	22.14	22.50
	4H	20.49	21.82	20.88	22.17	22.55	20.77	22.11	21.17	22.46	22.84
	6H	20.69	21.93	21.10	22.29	22.68	20.95	22.19	21.36	22.55	22.94
	8H	20.72	21.90	21.14	22.28	22.68	20.98	22.16	21.41	22.55	22.95
	12H	20.71	21.84	21.14	22.22	22.65	21.00	22.13	21.43	22.51	22.94
4H	2H	19.19	20.53	19.59	20.88	21.25	19.46	20.80	19.86	21.14	21.52
	3H	20.82	21.93	21.23	22.33	22.73	21.08	22.20	21.49	22.60	23.00
	4H	21.32	22.32	21.76	22.74	23.18	21.56	22.56	21.99	22.98	23.41
	6H	21.60	22.47	22.06	22.92	23.37	21.81	22.68	22.27	23.12	23.58
	8H	21.64	22.46	22.11	22.90	23.37	21.87	22.68	22.33	23.12	23.59
	12H	21.66	22.38	22.14	22.86	23.33	21.91	22.63	22.39	23.11	23.58
8H	4H	21.51	22.32	21.97	22.77	23.23	21.73	22.54	22.19	22.98	23.45
	6H	21.84	22.52	22.34	23.01	23.48	22.03	22.70	22.53	23.19	23.67
	8H	21.91	22.51	22.42	23.02	23.51	22.11	22.71	22.63	23.22	23.71
	12H	21.95	22.48	22.45	22.97	23.53	22.19	22.72	22.70	23.21	23.77
12H	4H	21.51	22.24	21.99	22.71	23.18	21.72	22.45	22.21	22.93	23.40
	6H	21.84	22.44	22.35	22.95	23.44	22.02	22.63	22.54	23.14	23.62
	8H	21.94	22.47	22.45	22.96	23.53	22.14	22.67	22.65	23.16	23.73