

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: P1499438

Luminaire Tested: MAE-G-4-120-2STD-LO-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-LO-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

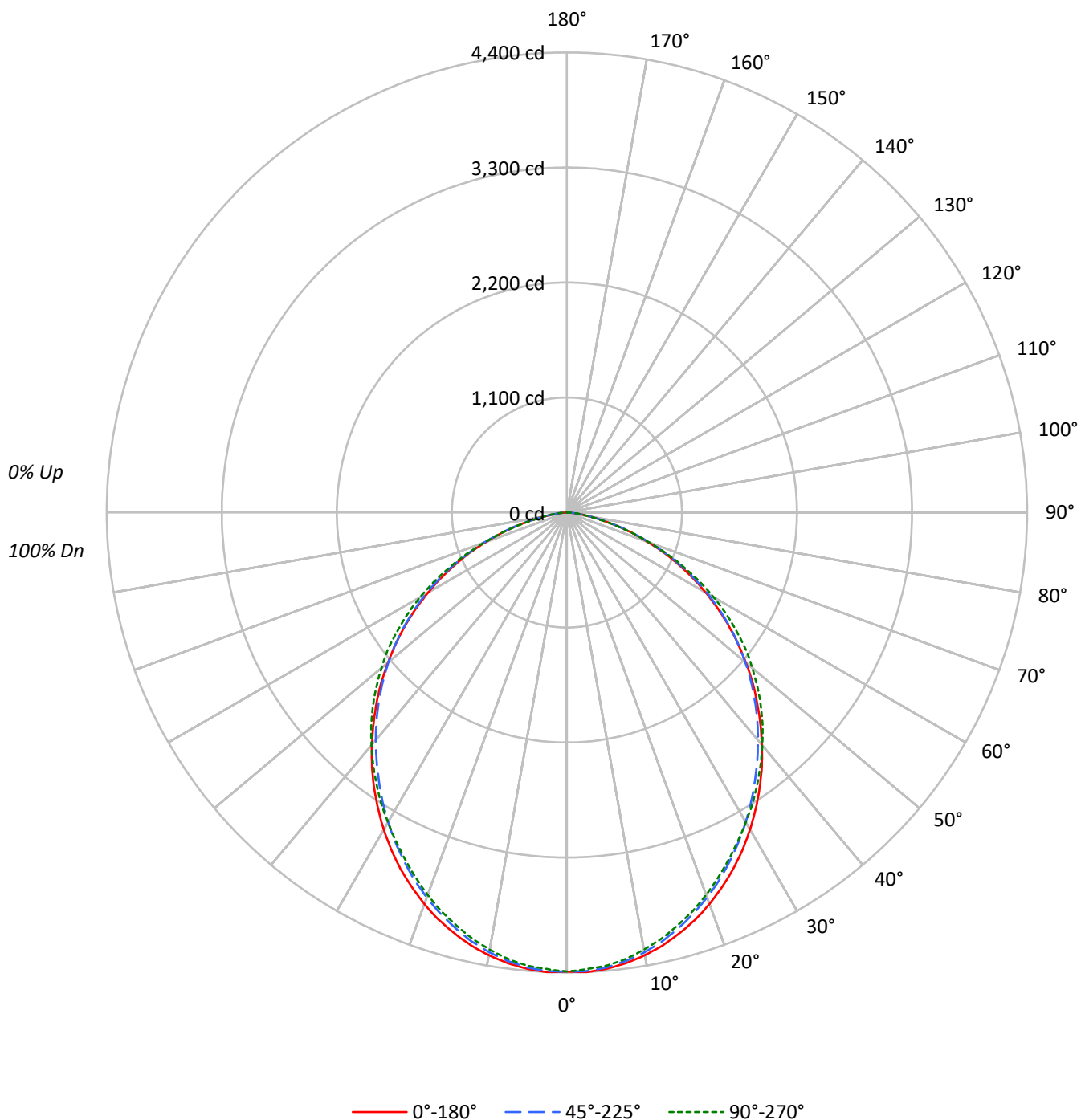
Lumens per Lamp: N/A
Luminaire Lumens: 10755.0 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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
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		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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5908	5908	5908
5°	5917	5900	5877
10°	5875	5835	5800
15°	5802	5735	5695
20°	5706	5609	5573
25°	5585	5467	5436
30°	5440	5311	5315
35°	5278	5147	5211
40°	5093	4993	5105
45°	4894	4834	4992
50°	4678	4660	4844
55°	4429	4450	4647
60°	4129	4186	4368
65°	3749	3825	3918
70°	3231	3312	3313
75°	2569	2635	2527
80°	1729	1755	1674
85°	875	1110	1380

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4992 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.2	3.8
10°-20°	1159.8	10.8
20°-30°	1700.5	15.8
30°-40°	1977.5	18.4
40°-50°	1979.2	18.4
50°-60°	1708.1	15.9
60°-70°	1187.0	11.0
70°-80°	535.4	5.0
80°-90°	94.3	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°	3273.6	30.4
0°-40°	5251.1	48.8
0°-60°	8938.4	83.1
0°-90°	10755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4391	4391	4391	4391	4391	
5°	4381	4364	4368	4346	4351	416
15°	4165	4138	4117	4084	4088	1174
25°	3762	3726	3683	3653	3662	1731
35°	3214	3170	3134	3147	3173	2008
45°	2572	2537	2540	2590	2624	1984
55°	1888	1863	1897	1956	1981	1686
65°	1178	1172	1202	1219	1231	1165
75°	494	494	507	492	486	532
85°	57	62	72	84	89	85
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4391.1	4391.1	4391.1	4391.1	4391.1
2.5°	4400.5	4383.9	4391.1	4374.7	4371.6
5°	4381.0	4363.6	4368.0	4346.1	4351.0
7.5°	4347.2	4328.0	4327.2	4303.2	4308.4
10°	4300.1	4277.3	4271.1	4242.3	4245.3
12.5°	4240.1	4215.3	4202.2	4169.6	4175.3
15°	4165.0	4138.1	4116.8	4084.2	4088.1
17.5°	4082.8	4054.7	4022.7	3988.6	3997.3
20°	3984.9	3955.3	3917.6	3881.9	3892.1
22.5°	3876.8	3843.9	3805.6	3771.0	3778.3
25°	3761.7	3726.1	3682.7	3652.9	3661.5
27.5°	3636.3	3596.9	3554.1	3529.2	3541.7
30°	3501.7	3461.1	3418.7	3404.1	3420.9
32.5°	3359.9	3319.2	3279.2	3278.8	3302.5
35°	3213.5	3170.3	3133.6	3146.7	3172.8
37.5°	3061.4	3019.2	2989.5	3015.5	3042.8
40°	2899.7	2861.7	2842.6	2877.5	2906.4
42.5°	2737.6	2701.8	2693.4	2737.3	2768.6
45°	2572.1	2537.0	2540.4	2590.2	2623.6
47.5°	2408.3	2372.2	2385.9	2441.1	2471.0
50°	2234.7	2204.4	2226.1	2283.9	2314.1
52.5°	2060.9	2033.1	2063.1	2124.2	2159.0
55°	1887.9	1863.4	1897.0	1956.5	1981.1
57.5°	1710.7	1693.6	1729.6	1781.2	1804.6
60°	1534.3	1519.3	1555.7	1602.1	1623.3
62.5°	1356.0	1344.3	1380.5	1416.1	1427.7
65°	1177.6	1171.8	1201.5	1219.3	1230.8
67.5°	1002.9	996.5	1023.6	1037.5	1039.8
70°	821.4	821.0	841.9	845.9	842.2
72.5°	655.4	652.8	667.9	662.9	655.9
75°	494.1	494.4	506.8	491.9	486.1
77.5°	347.6	353.7	354.4	341.2	336.2
80°	223.1	231.5	226.5	220.4	216.0
82.5°	124.5	130.3	129.6	141.5	146.2
85°	56.7	61.8	71.9	84.4	89.4
87.5°	19.2	23.6	30.0	31.9	30.0
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	17.10	18.68	17.46	18.99	19.31	17.45	19.04	17.82	19.35	19.66
	3H	18.55	19.98	18.93	20.30	20.67	18.87	20.29	19.24	20.62	20.98
	4H	18.97	20.31	19.37	20.66	21.03	19.24	20.58	19.64	20.93	21.30
	6H	19.17	20.41	19.59	20.78	21.17	19.41	20.64	19.82	21.01	21.40
	8H	19.20	20.38	19.62	20.77	21.17	19.44	20.62	19.86	21.01	21.41
	12H	19.20	20.32	19.63	20.71	21.13	19.45	20.58	19.88	20.96	21.39
4H	2H	17.67	19.01	18.07	19.36	19.73	17.96	19.30	18.36	19.65	20.02
	3H	19.30	20.41	19.71	20.81	21.21	19.56	20.67	19.97	21.07	21.47
	4H	19.81	20.81	20.24	21.22	21.66	20.02	21.02	20.45	21.43	21.87
	6H	20.09	20.95	20.54	21.40	21.85	20.25	21.12	20.71	21.57	22.02
	8H	20.12	20.94	20.59	21.38	21.85	20.30	21.11	20.76	21.56	22.02
	12H	20.13	20.86	20.62	21.34	21.81	20.34	21.06	20.82	21.54	22.01
8H	4H	19.99	20.80	20.45	21.24	21.71	20.18	20.99	20.64	21.43	21.90
	6H	20.32	20.99	20.81	21.48	21.95	20.46	21.13	20.96	21.62	22.10
	8H	20.38	20.98	20.89	21.49	21.98	20.54	21.14	21.05	21.65	22.13
	12H	20.41	20.94	20.92	21.43	22.00	20.61	21.14	21.11	21.63	22.19
12H	4H	19.98	20.71	20.46	21.19	21.66	20.17	20.90	20.66	21.38	21.85
	6H	20.31	20.91	20.82	21.42	21.91	20.46	21.06	20.97	21.57	22.05
	8H	20.41	20.94	20.92	21.43	21.99	20.57	21.10	21.07	21.59	22.15