

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: P1499303

Luminaire Tested: MAE-G-4-120-2LO-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499303
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-4-120-2LO-HI-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

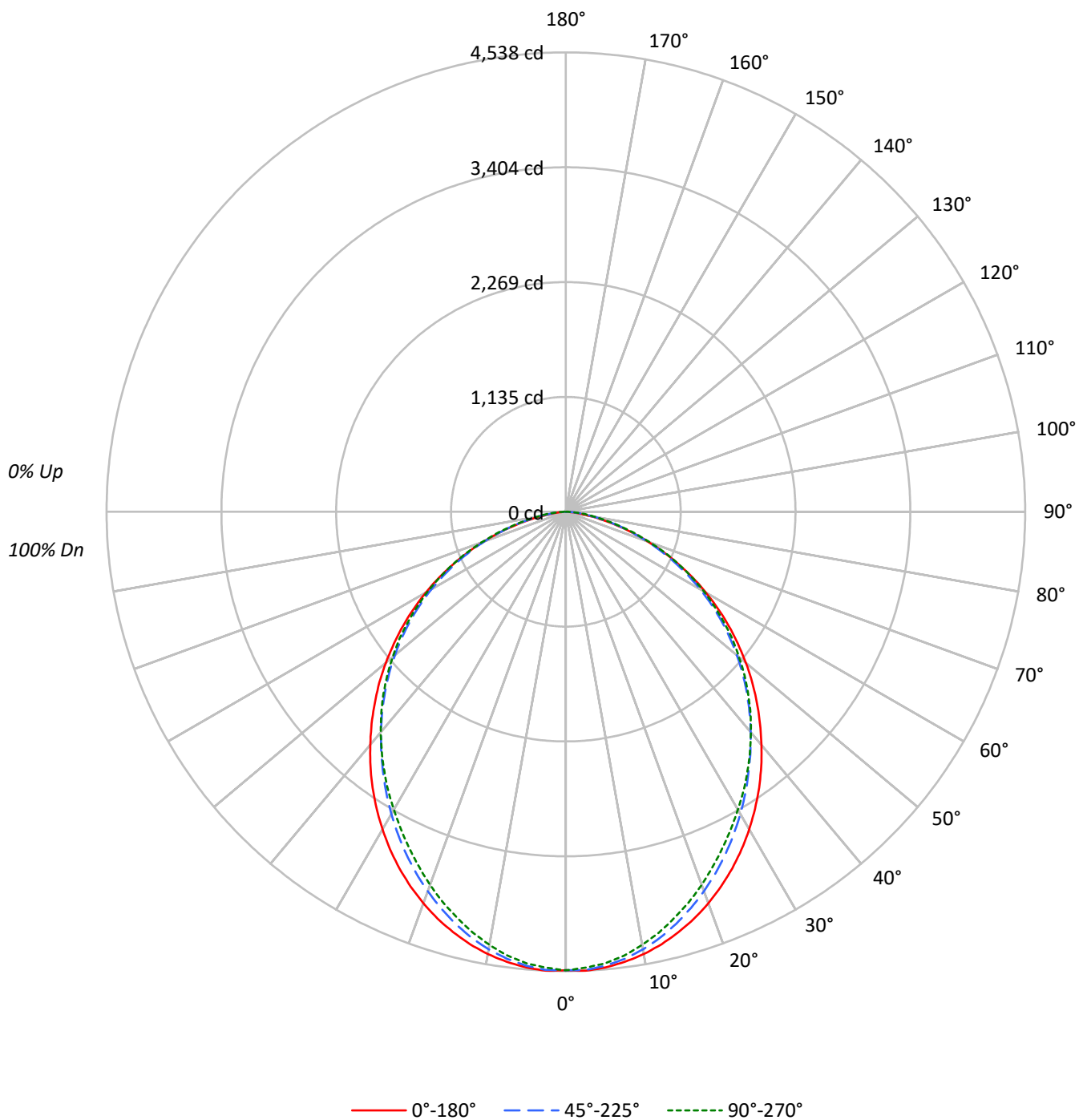
Lumens per Lamp: N/A
Luminaire Lumens: 10901.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.9
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	98	90	84	79	87	82	78		84	79	76		81	77	74	72
3	92	81	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	60	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	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	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	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6095	6095	6095
5°	6103	6080	6047
10°	6061	5997	5935
15°	5989	5868	5782
20°	5894	5710	5616
25°	5772	5539	5439
30°	5629	5355	5279
35°	5467	5168	5137
40°	5281	4989	4996
45°	5080	4810	4849
50°	4861	4618	4674
55°	4607	4396	4475
60°	4303	4126	4242
65°	3922	3784	3921
70°	3398	3357	3490
75°	2719	2812	2921
80°	1862	2094	2261
85°	983	1514	2002

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.4	3.9
10°-20°	1186.8	10.9
20°-30°	1726.6	15.8
30°-40°	1992.6	18.3
40°-50°	1979.5	18.2
50°-60°	1699.3	15.6
60°-70°	1195.2	11.0
70°-80°	576.3	5.3
80°-90°	119.4	1.1
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°	3338.8	30.6
0°-40°	5331.4	48.9
0°-60°	9010.1	82.7
0°-90°	10901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10901.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4530	4530	4530	4530	4530	
5°	4519	4505	4502	4470	4477	429
15°	4299	4266	4213	4151	4151	1212
25°	3888	3830	3731	3665	3664	1790
35°	3328	3249	3146	3117	3128	2080
45°	2670	2595	2528	2534	2548	2059
55°	1964	1901	1874	1895	1908	1754
65°	1232	1191	1189	1216	1232	1218
75°	523	507	541	556	562	563
85°	64	75	98	120	130	93
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4529.6	4529.6	4529.6	4529.6	4529.6
2.5°	4537.8	4527.3	4529.6	4504.7	4506.8
5°	4518.6	4505.2	4501.7	4469.6	4477.0
7.5°	4484.0	4466.7	4454.0	4416.1	4421.9
10°	4436.5	4413.6	4389.6	4342.1	4344.3
12.5°	4375.3	4347.3	4309.5	4253.4	4256.3
15°	4299.3	4266.2	4212.7	4151.0	4151.2
17.5°	4215.0	4176.6	4105.7	4039.1	4043.6
20°	4116.3	4071.9	3988.1	3919.2	3922.5
22.5°	4006.2	3954.7	3865.5	3795.5	3794.2
25°	3888.1	3829.7	3731.2	3664.7	3663.8
27.5°	3760.5	3694.9	3591.5	3529.3	3531.2
30°	3623.1	3552.9	3446.8	3393.3	3397.7
32.5°	3478.4	3404.7	3299.6	3258.0	3267.4
35°	3328.1	3249.4	3146.3	3116.8	3127.5
37.5°	3171.2	3093.2	2994.4	2977.1	2988.0
40°	3006.5	2930.3	2840.7	2831.6	2844.4
42.5°	2839.7	2765.1	2685.8	2685.3	2699.1
45°	2669.8	2594.7	2527.6	2533.8	2548.5
47.5°	2499.4	2425.2	2369.6	2380.9	2394.3
50°	2322.2	2252.4	2206.1	2222.0	2233.1
52.5°	2140.8	2075.8	2041.3	2060.6	2078.2
55°	1964.1	1901.0	1874.0	1895.2	1907.8
57.5°	1781.3	1726.8	1706.2	1727.7	1742.0
60°	1599.2	1547.9	1533.3	1559.5	1576.3
62.5°	1415.0	1367.9	1361.7	1389.7	1404.9
65°	1232.0	1191.1	1188.6	1216.3	1231.6
67.5°	1050.0	1013.4	1020.5	1053.3	1062.3
70°	863.8	834.2	853.3	880.6	887.1
72.5°	690.6	665.5	692.5	715.1	718.4
75°	523.1	506.9	541.0	556.3	561.9
77.5°	370.9	366.9	395.9	411.3	418.0
80°	240.3	247.7	270.2	288.4	291.8
82.5°	136.8	147.1	168.4	194.9	205.2
85°	63.7	74.7	98.1	120.1	129.7
87.5°	21.4	29.5	41.6	45.5	43.4
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	17.21	18.79	17.57	19.11	19.42	17.19	18.77	17.55	19.09	19.40
	3H	18.69	20.11	19.07	20.44	20.80	18.76	20.18	19.13	20.51	20.87
	4H	19.12	20.46	19.52	20.81	21.19	19.25	20.59	19.65	20.94	21.31
	6H	19.34	20.58	19.75	20.95	21.34	19.54	20.78	19.95	21.14	21.53
	8H	19.37	20.55	19.80	20.94	21.34	19.62	20.80	20.04	21.19	21.59
	12H	19.37	20.51	19.80	20.89	21.32	19.67	20.80	20.10	21.18	21.61
4H	2H	17.74	19.08	18.14	19.43	19.80	17.72	19.06	18.12	19.41	19.78
	3H	19.40	20.51	19.81	20.91	21.31	19.48	20.60	19.89	21.00	21.40
	4H	19.92	20.92	20.35	21.34	21.78	20.08	21.08	20.51	21.50	21.93
	6H	20.22	21.09	20.68	21.54	21.99	20.47	21.34	20.92	21.78	22.24
	8H	20.27	21.09	20.73	21.53	22.00	20.58	21.39	21.04	21.84	22.30
	12H	20.29	21.02	20.77	21.50	21.97	20.66	21.39	21.14	21.87	22.34
8H	4H	20.13	20.94	20.59	21.39	21.85	20.27	21.09	20.73	21.53	22.00
	6H	20.49	21.16	20.98	21.65	22.13	20.73	21.41	21.23	21.90	22.37
	8H	20.57	21.17	21.08	21.68	22.17	20.89	21.49	21.40	22.00	22.49
	12H	20.61	21.15	21.12	21.64	22.20	21.03	21.56	21.54	22.05	22.62
12H	4H	20.13	20.86	20.61	21.34	21.81	20.27	21.00	20.75	21.48	21.95
	6H	20.50	21.11	21.01	21.62	22.10	20.74	21.34	21.25	21.85	22.34
	8H	20.62	21.15	21.13	21.65	22.21	20.94	21.47	21.44	21.96	22.52

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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