

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: P1499357

Luminaire Tested: MAE-G-4-120-2LO-STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499357
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-STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

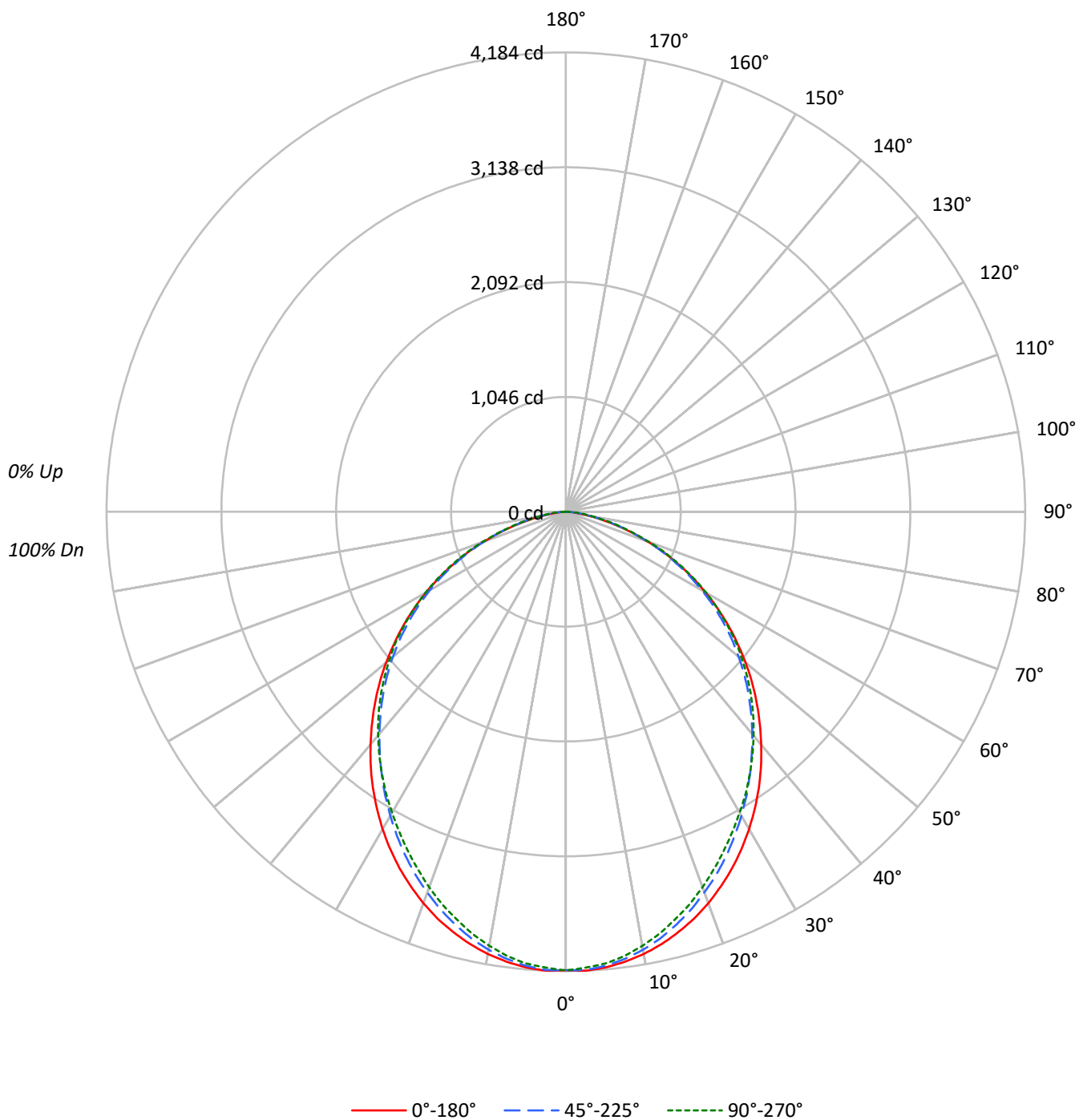
Lumens per Lamp: N/A
Luminaire Lumens: 10098.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	80	98	90	85	79	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	56		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	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5619	5619	5619
5°	5627	5607	5579
10°	5588	5535	5484
15°	5520	5422	5354
20°	5432	5283	5211
25°	5319	5132	5056
30°	5185	4968	4917
35°	5035	4799	4795
40°	4862	4640	4673
45°	4676	4478	4545
50°	4473	4304	4389
55°	4238	4101	4205
60°	3957	3852	3976
65°	3603	3529	3645
70°	3117	3109	3199
75°	2490	2570	2616
80°	1698	1860	1953
85°	886	1304	1704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.4	3.9
10°-20°	1096.5	10.9
20°-30°	1598.6	15.8
30°-40°	1848.8	18.3
40°-50°	1840.4	18.2
50°-60°	1582.1	15.7
60°-70°	1109.1	11.0
70°-80°	525.4	5.2
80°-90°	104.6	1.0
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°	3087.6	30.6
0°-40°	4936.4	48.9
0°-60°	8358.8	82.8
0°-90°	10098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4176	4176	4176	4176	4176	
5°	4166	4153	4151	4124	4130	395
15°	3963	3934	3892	3842	3844	1117
25°	3583	3534	3457	3404	3406	1649
35°	3065	3001	2922	2905	2919	1916
45°	2457	2398	2353	2370	2388	1896
55°	1807	1758	1748	1778	1792	1613
65°	1132	1102	1108	1132	1145	1119
75°	479	468	494	501	503	515
85°	57	66	84	103	110	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4176.1	4176.1	4176.1	4176.1	4176.1
2.5°	4184.1	4172.8	4176.1	4155.1	4155.8
5°	4166.1	4152.7	4151.4	4124.2	4130.4
7.5°	4134.2	4117.6	4108.8	4077.2	4082.4
10°	4090.1	4068.9	4051.1	4011.7	4014.0
12.5°	4033.4	4008.2	3979.4	3933.3	3936.6
15°	3963.0	3933.9	3892.4	3842.3	3843.5
17.5°	3885.2	3852.2	3796.1	3742.5	3747.8
20°	3793.6	3756.2	3690.0	3634.3	3639.1
22.5°	3691.8	3648.6	3578.6	3522.6	3523.6
25°	3582.7	3534.3	3456.7	3404.3	3405.8
27.5°	3464.6	3410.4	3329.7	3281.2	3285.8
30°	3337.6	3279.9	3197.5	3157.6	3164.9
32.5°	3203.9	3143.8	3062.6	3034.4	3046.7
35°	3065.1	3001.0	2922.0	2905.4	2919.3
37.5°	2920.4	2857.1	2782.7	2777.7	2792.0
40°	2768.1	2707.0	2641.6	2644.4	2660.4
42.5°	2614.2	2554.8	2499.0	2509.9	2527.2
45°	2457.4	2397.7	2353.3	2370.1	2388.5
47.5°	2300.6	2241.3	2207.2	2228.9	2245.5
50°	2136.8	2082.0	2056.2	2081.6	2096.8
52.5°	1970.1	1919.1	1903.4	1932.0	1952.8
55°	1806.7	1757.9	1748.2	1777.7	1792.4
57.5°	1638.2	1597.0	1592.2	1620.0	1635.5
60°	1470.3	1431.9	1431.3	1460.7	1477.6
62.5°	1300.6	1265.8	1270.8	1298.8	1312.0
65°	1131.6	1102.5	1108.4	1131.6	1144.9
67.5°	964.2	937.9	949.6	975.3	981.9
70°	792.3	772.3	790.4	810.0	813.3
72.5°	633.1	615.5	637.7	651.6	652.0
75°	479.0	468.0	494.3	500.8	503.2
77.5°	338.9	337.8	357.5	364.5	367.9
80°	219.1	226.2	240.1	250.8	252.0
82.5°	124.0	132.5	146.7	167.6	175.7
85°	57.4	66.2	84.5	102.6	110.4
87.5°	19.3	25.9	35.7	38.8	36.9
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	16.93	18.51	17.29	18.82	19.14	17.01	18.59	17.37	18.91	19.22
	3H	18.40	19.82	18.78	20.15	20.51	18.53	19.96	18.91	20.28	20.65
	4H	18.83	20.17	19.23	20.52	20.89	18.99	20.33	19.39	20.68	21.06
	6H	19.04	20.28	19.45	20.65	21.04	19.25	20.48	19.66	20.85	21.24
	8H	19.07	20.25	19.50	20.64	21.04	19.31	20.49	19.74	20.88	21.28
	12H	19.07	20.20	19.50	20.58	21.01	19.35	20.48	19.78	20.86	21.29
4H	2H	17.47	18.81	17.87	19.15	19.53	17.53	18.87	17.93	19.22	19.60
	3H	19.12	20.23	19.53	20.63	21.03	19.25	20.36	19.66	20.76	21.16
	4H	19.64	20.64	20.07	21.05	21.49	19.81	20.81	20.24	21.22	21.66
	6H	19.93	20.80	20.39	21.24	21.70	20.15	21.02	20.61	21.47	21.92
	8H	19.98	20.79	20.44	21.24	21.70	20.24	21.06	20.71	21.50	21.97
	12H	19.99	20.72	20.47	21.20	21.67	20.31	21.04	20.80	21.52	21.99
8H	4H	19.83	20.65	20.30	21.09	21.56	19.99	20.80	20.45	21.25	21.71
	6H	20.19	20.86	20.68	21.35	21.83	20.40	21.08	20.90	21.56	22.04
	8H	20.27	20.87	20.78	21.38	21.86	20.54	21.14	21.05	21.65	22.13
	12H	20.31	20.84	20.81	21.33	21.89	20.66	21.19	21.16	21.68	22.24
12H	4H	19.84	20.57	20.32	21.05	21.52	19.99	20.72	20.47	21.20	21.67
	6H	20.20	20.80	20.71	21.31	21.80	20.40	21.01	20.91	21.52	22.00
	8H	20.31	20.84	20.82	21.33	21.90	20.58	21.11	21.09	21.60	22.16