

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: P1498421

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498421
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-2-120-2LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

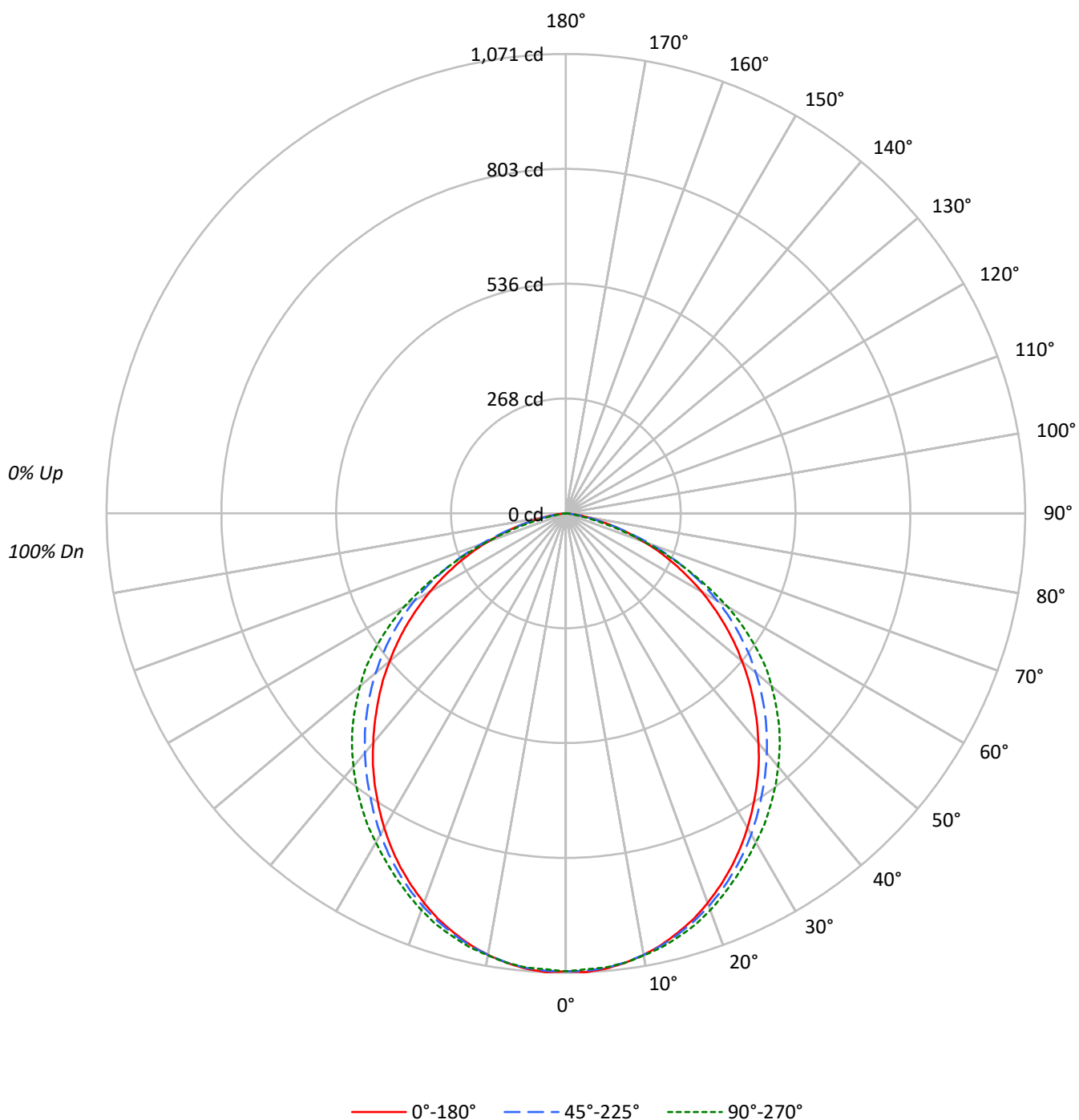
Lumens per Lamp: N/A
Luminaire Lumens: 2695.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	102	98	107	103	100	97	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2873	2873	2873
5°	2878	2873	2870
10°	2856	2856	2860
15°	2818	2828	2845
20°	2768	2791	2820
25°	2706	2742	2783
30°	2632	2686	2753
35°	2549	2620	2732
40°	2454	2561	2706
45°	2354	2497	2676
50°	2245	2422	2622
55°	2121	2325	2524
60°	1971	2195	2343
65°	1778	1994	2006
70°	1518	1660	1552
75°	1192	1202	969
80°	775	618	372
85°	358	235	191

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	3.7
10°-20°	286.0	10.6
20°-30°	424.9	15.8
30°-40°	500.4	18.6
40°-50°	507.0	18.8
50°-60°	441.3	16.4
60°-70°	300.7	11.2
70°-80°	120.2	4.5
80°-90°	13.8	0.5
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°	811.7	30.1
0°-40°	1312.1	48.7
0°-60°	2260.4	83.9
0°-90°	2695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1066	1059	1064	1062	1063	101
15°	1012	1007	1015	1019	1021	285
25°	911	912	923	931	937	419
35°	776	780	798	819	832	485
45°	618	626	656	687	703	477
55°	452	462	496	527	538	404
65°	279	292	313	314	315	277
75°	115	122	116	99	93	123
85°	12	10	8	7	6	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.6	1067.6	1067.6	1067.6	1067.6
2.5°	1070.6	1063.7	1067.6	1066.9	1064.0
5°	1065.5	1059.3	1063.7	1062.3	1062.6
7.5°	1057.1	1051.4	1056.1	1055.7	1056.8
10°	1045.2	1039.4	1045.2	1045.5	1046.6
12.5°	1030.3	1025.2	1032.1	1033.6	1036.1
15°	1011.5	1007.1	1015.1	1018.7	1021.2
17.5°	991.2	988.3	996.2	1001.0	1005.0
20°	966.5	965.1	974.5	979.2	984.6
22.5°	939.7	938.9	950.2	956.0	961.5
25°	911.4	911.8	923.4	931.0	937.2
27.5°	880.2	880.9	895.1	904.2	911.8
30°	846.9	848.7	864.3	876.6	886.1
32.5°	811.7	815.0	831.6	848.7	860.7
35°	775.8	779.5	797.6	818.6	831.6
37.5°	738.9	742.9	763.9	788.5	802.3
40°	698.6	704.7	729.1	756.2	770.3
42.5°	659.1	665.9	693.2	722.9	738.1
45°	618.5	626.1	656.2	687.0	703.3
47.5°	579.3	585.8	618.1	650.4	664.9
50°	536.2	544.9	578.6	610.9	626.4
52.5°	494.9	503.2	537.7	570.6	586.6
55°	452.1	461.9	495.6	526.8	538.0
57.5°	409.0	420.2	452.8	478.5	488.3
60°	366.2	377.4	407.9	428.1	435.4
62.5°	323.0	334.6	361.5	373.8	375.2
65°	279.2	292.2	313.2	313.6	315.1
67.5°	237.5	248.3	263.5	259.2	257.0
70°	192.9	204.8	211.0	202.3	197.2
72.5°	153.4	162.0	161.0	148.2	142.1
75°	114.6	121.5	115.6	99.4	93.2
77.5°	79.4	85.2	73.6	58.3	52.2
80°	50.0	52.6	39.9	28.3	24.0
82.5°	26.8	26.4	17.1	14.1	13.1
85°	11.6	10.5	7.6	6.9	6.2
87.5°	4.0	3.6	2.9	2.6	2.2
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	14.58	16.16	14.95	16.48	16.79	15.54	17.13	15.91	17.44	17.75
	3H	16.00	17.42	16.38	17.75	18.11	16.73	18.15	17.11	18.48	18.84
	4H	16.40	17.73	16.80	18.08	18.46	16.95	18.28	17.35	18.63	19.01
	6H	16.57	17.80	16.98	18.17	18.56	16.97	18.20	17.38	18.56	18.95
	8H	16.58	17.76	17.01	18.15	18.55	16.94	18.11	17.37	18.50	18.90
	12H	16.57	17.70	17.00	18.08	18.51	16.92	18.04	17.35	18.42	18.85
4H	2H	15.24	16.58	15.64	16.92	17.30	16.02	17.35	16.42	17.70	18.08
	3H	16.82	17.93	17.23	18.32	18.73	17.37	18.47	17.78	18.87	19.27
	4H	17.30	18.29	17.73	18.70	19.14	17.64	18.63	18.07	19.04	19.48
	6H	17.54	18.40	17.99	18.84	19.30	17.69	18.55	18.14	18.99	19.45
	8H	17.56	18.36	18.02	18.81	19.27	17.66	18.47	18.12	18.91	19.38
	12H	17.56	18.28	18.04	18.75	19.22	17.64	18.36	18.12	18.84	19.31
8H	4H	17.43	18.24	17.90	18.68	19.15	17.75	18.55	18.21	19.00	19.46
	6H	17.71	18.37	18.21	18.86	19.34	17.81	18.47	18.30	18.96	19.44
	8H	17.75	18.34	18.26	18.85	19.34	17.79	18.38	18.30	18.89	19.37
	12H	17.76	18.28	18.27	18.77	19.34	17.77	18.29	18.28	18.78	19.35
12H	4H	17.42	18.13	17.90	18.61	19.08	17.74	18.46	18.22	18.93	19.40
	6H	17.68	18.27	18.19	18.78	19.27	17.79	18.38	18.30	18.89	19.37
	8H	17.74	18.26	18.25	18.76	19.32	17.79	18.31	18.29	18.80	19.36