

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: P1499345

Luminaire Tested: MAE-G-4-120-2LO-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499345
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-30-90-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

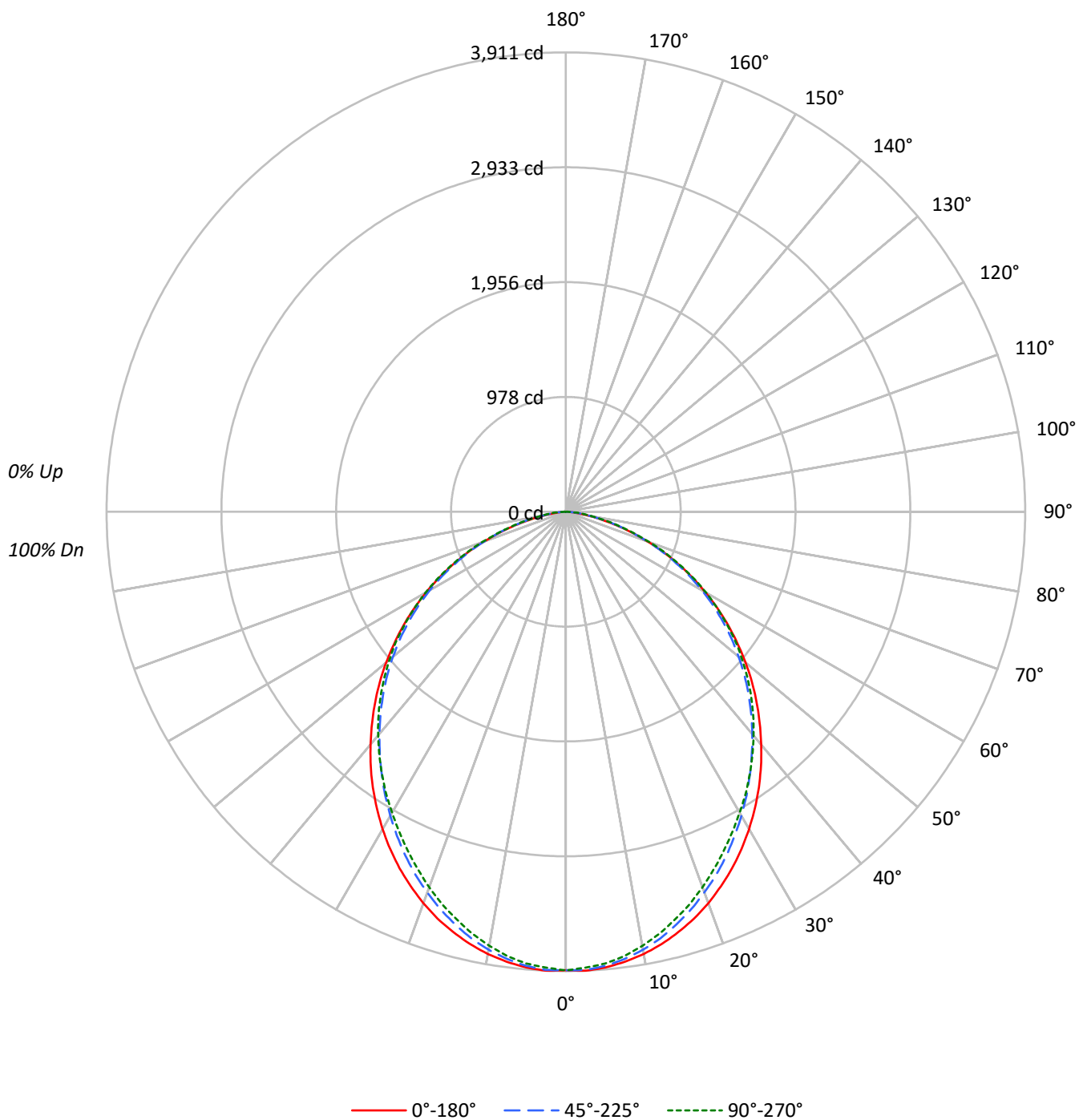
Lumens per Lamp: N/A
Luminaire Lumens: 9439.0 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5252	5252	5252
5°	5260	5241	5215
10°	5223	5174	5126
15°	5160	5068	5004
20°	5077	4939	4871
25°	4972	4797	4726
30°	4847	4644	4596
35°	4706	4486	4482
40°	4545	4337	4368
45°	4371	4186	4248
50°	4181	4023	4103
55°	3962	3833	3930
60°	3698	3600	3717
65°	3368	3298	3407
70°	2913	2907	2991
75°	2327	2402	2445
80°	1587	1739	1825
85°	827	1220	1592

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4371 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.8	3.9
10°-20°	1025.0	10.9
20°-30°	1494.3	15.8
30°-40°	1728.1	18.3
40°-50°	1720.3	18.2
50°-60°	1478.9	15.7
60°-70°	1036.8	11.0
70°-80°	491.1	5.2
80°-90°	97.8	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°	2886.1	30.6
0°-40°	4614.2	48.9
0°-60°	7813.4	82.8
0°-90°	9439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3904	3904	3904	3904	3904	
5°	3894	3882	3880	3855	3861	369
15°	3704	3677	3638	3592	3593	1044
25°	3349	3304	3231	3182	3184	1542
35°	2865	2805	2731	2716	2729	1791
45°	2297	2241	2200	2216	2233	1772
55°	1689	1643	1634	1662	1675	1508
65°	1058	1030	1036	1058	1070	1046
75°	448	438	462	468	470	482
85°	54	62	79	96	103	79
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3903.6	3903.6	3903.6	3903.6	3903.6
2.5°	3911.0	3900.4	3903.6	3883.9	3884.6
5°	3894.2	3881.6	3880.4	3855.0	3860.8
7.5°	3864.4	3849.0	3840.6	3811.1	3815.9
10°	3823.2	3803.3	3786.7	3749.8	3752.0
12.5°	3770.2	3746.7	3719.7	3676.5	3679.7
15°	3704.5	3677.2	3638.3	3591.6	3592.7
17.5°	3631.8	3600.8	3548.3	3498.2	3503.2
20°	3546.1	3511.0	3449.2	3397.2	3401.6
22.5°	3451.0	3410.5	3345.2	3292.7	3293.6
25°	3349.0	3303.6	3231.1	3182.1	3183.6
27.5°	3238.5	3187.8	3112.4	3067.1	3071.3
30°	3119.8	3065.9	2988.8	2951.5	2958.4
32.5°	2994.8	2938.6	2862.7	2836.3	2847.9
35°	2865.1	2805.1	2731.3	2715.9	2728.8
37.5°	2729.8	2670.6	2601.2	2596.5	2609.8
40°	2587.5	2530.3	2469.3	2471.8	2486.8
42.5°	2443.6	2388.1	2336.0	2346.1	2362.2
45°	2297.0	2241.2	2199.7	2215.5	2232.6
47.5°	2150.5	2095.1	2063.2	2083.5	2099.1
50°	1997.4	1946.1	1922.0	1945.8	1960.0
52.5°	1841.5	1793.9	1779.2	1805.9	1825.4
55°	1688.8	1643.1	1634.1	1661.6	1675.4
57.5°	1531.3	1492.8	1488.3	1514.2	1528.8
60°	1374.4	1338.4	1337.9	1365.4	1381.2
62.5°	1215.7	1183.3	1187.8	1214.0	1226.5
65°	1057.8	1030.5	1036.0	1057.8	1070.2
67.5°	901.3	876.6	887.7	911.7	917.9
70°	740.6	721.8	738.9	757.1	760.3
72.5°	591.8	575.3	596.0	609.0	609.4
75°	447.7	437.5	462.0	468.1	470.3
77.5°	316.8	315.8	334.2	340.8	343.9
80°	204.8	211.4	224.4	234.4	235.5
82.5°	115.9	123.8	137.2	156.7	164.3
85°	53.6	61.8	79.0	95.9	103.1
87.5°	18.1	24.2	33.4	36.2	34.6
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	16.69	18.28	17.06	18.59	18.90	16.77	18.36	17.14	18.67	18.99
	3H	18.16	19.59	18.54	19.92	20.28	18.30	19.72	18.68	20.05	20.41
	4H	18.60	19.93	18.99	20.28	20.66	18.76	20.10	19.16	20.44	20.82
	6H	18.81	20.05	19.22	20.41	20.80	19.01	20.25	19.42	20.62	21.01
	8H	18.84	20.02	19.26	20.41	20.81	19.08	20.26	19.50	20.65	21.05
	12H	18.84	19.97	19.27	20.35	20.78	19.12	20.25	19.55	20.63	21.06
4H	2H	17.23	18.57	17.63	18.92	19.30	17.30	18.64	17.70	18.99	19.36
	3H	18.89	20.00	19.30	20.40	20.80	19.01	20.13	19.42	20.53	20.93
	4H	19.40	20.40	19.83	20.82	21.26	19.57	20.58	20.00	20.99	21.43
	6H	19.70	20.57	20.15	21.01	21.47	19.92	20.79	20.37	21.23	21.69
	8H	19.74	20.56	20.21	21.00	21.47	20.01	20.82	20.47	21.27	21.73
	12H	19.76	20.49	20.24	20.97	21.44	20.08	20.81	20.56	21.29	21.76
8H	4H	19.60	20.42	20.06	20.86	21.32	19.75	20.57	20.22	21.01	21.48
	6H	19.95	20.63	20.45	21.12	21.59	20.17	20.84	20.66	21.33	21.81
	8H	20.03	20.63	20.54	21.14	21.63	20.30	20.90	20.81	21.41	21.90
	12H	20.07	20.60	20.58	21.09	21.66	20.42	20.95	20.93	21.44	22.01
12H	4H	19.60	20.33	20.09	20.81	21.28	19.75	20.48	20.24	20.96	21.43
	6H	19.96	20.57	20.47	21.07	21.56	20.17	20.77	20.68	21.28	21.77
	8H	20.07	20.61	20.58	21.10	21.66	20.34	20.87	20.85	21.37	21.93