

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: P1499351

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499351
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-35-90-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

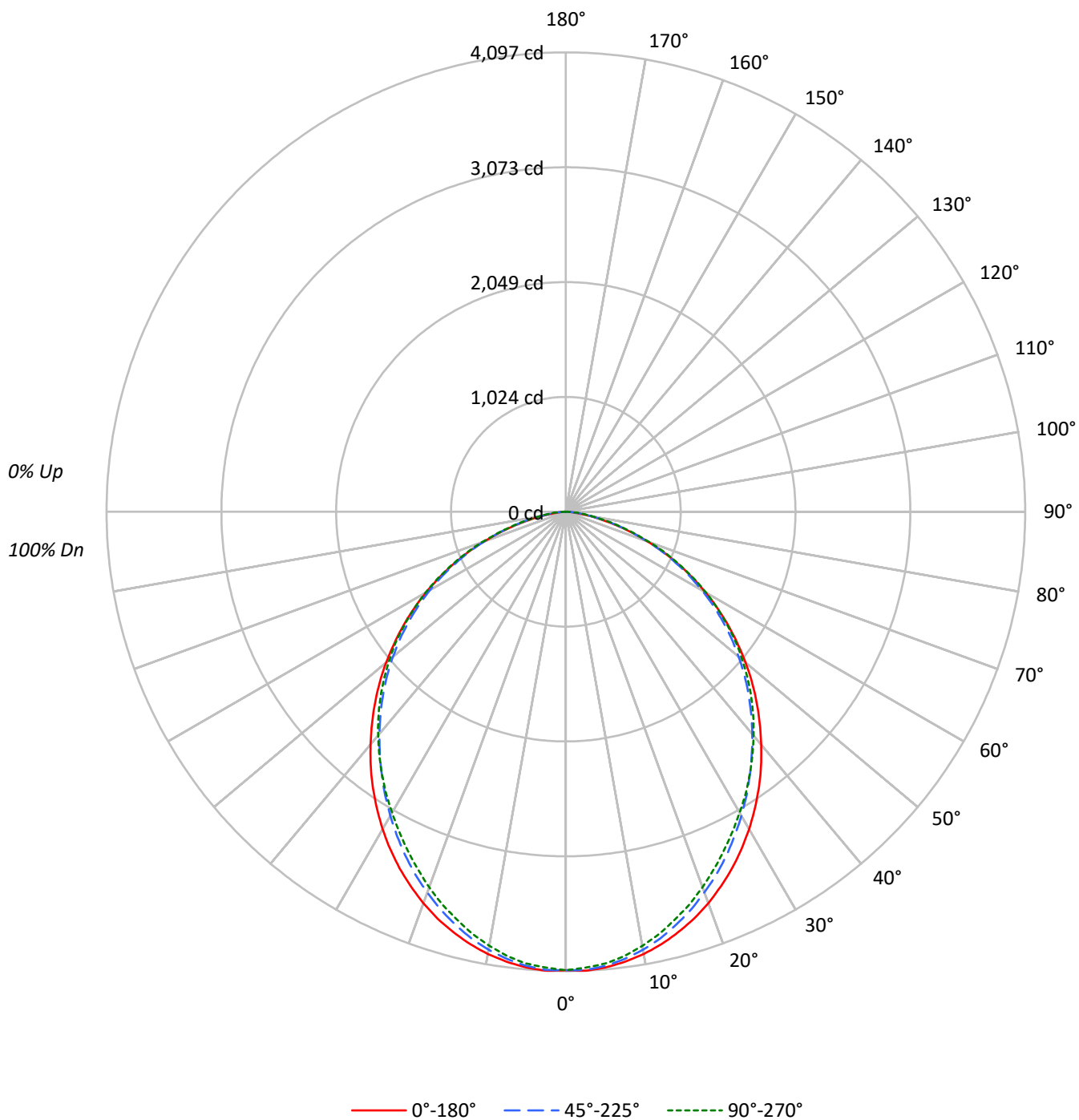
Lumens per Lamp: N/A
Luminaire Lumens: 9888.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5502	5502	5502
5°	5510	5490	5463
10°	5472	5420	5370
15°	5406	5309	5242
20°	5319	5174	5102
25°	5208	5025	4951
30°	5078	4864	4815
35°	4930	4700	4695
40°	4761	4543	4576
45°	4579	4385	4450
50°	4380	4214	4298
55°	4150	4016	4117
60°	3874	3771	3893
65°	3528	3455	3569
70°	3052	3045	3133
75°	2438	2516	2561
80°	1662	1822	1912
85°	868	1278	1669

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.3	3.9
10°-20°	1073.7	10.9
20°-30°	1565.4	15.8
30°-40°	1810.3	18.3
40°-50°	1802.1	18.2
50°-60°	1549.2	15.7
60°-70°	1086.1	11.0
70°-80°	514.5	5.2
80°-90°	102.5	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°	3023.4	30.6
0°-40°	4833.7	48.9
0°-60°	8185.1	82.8
0°-90°	9888.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9888.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4089	4089	4089	4089	4089	
5°	4080	4066	4065	4038	4044	387
15°	3881	3852	3811	3762	3764	1094
25°	3508	3461	3385	3333	3335	1615
35°	3001	2939	2861	2845	2858	1876
45°	2406	2348	2304	2321	2339	1856
55°	1769	1721	1712	1741	1755	1580
65°	1108	1080	1085	1108	1121	1096
75°	469	458	484	490	493	505
85°	56	65	83	100	108	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4089.2	4089.2	4089.2	4089.2	4089.2
2.5°	4097.1	4086.0	4089.2	4068.7	4069.4
5°	4079.5	4066.3	4065.0	4038.4	4044.5
7.5°	4048.2	4032.0	4023.3	3992.3	3997.5
10°	4005.1	3984.2	3966.8	3928.2	3930.4
12.5°	3949.6	3924.9	3896.7	3851.5	3854.8
15°	3880.7	3852.0	3811.4	3762.5	3763.5
17.5°	3804.4	3772.1	3717.2	3664.6	3669.8
20°	3714.8	3678.0	3613.3	3558.8	3563.5
22.5°	3615.1	3572.8	3504.2	3449.4	3450.3
25°	3508.3	3460.8	3384.8	3333.4	3335.0
27.5°	3392.6	3339.5	3260.4	3213.1	3217.5
30°	3268.3	3211.7	3131.0	3091.9	3099.0
32.5°	3137.2	3078.4	2998.9	2971.3	2983.4
35°	3001.4	2938.6	2861.2	2845.0	2858.5
37.5°	2859.7	2797.7	2724.9	2720.0	2734.0
40°	2710.6	2650.7	2586.7	2589.3	2605.1
42.5°	2559.9	2501.6	2447.0	2457.7	2474.6
45°	2406.3	2347.9	2304.4	2320.9	2338.9
47.5°	2252.8	2194.7	2161.4	2182.6	2198.9
50°	2092.4	2038.7	2013.4	2038.4	2053.3
52.5°	1929.1	1879.2	1863.9	1891.8	1912.1
55°	1769.1	1721.3	1711.8	1740.7	1755.1
57.5°	1604.1	1563.8	1559.2	1586.3	1601.6
60°	1439.7	1402.1	1401.5	1430.4	1446.8
62.5°	1273.6	1239.5	1244.4	1271.8	1284.7
65°	1108.1	1079.6	1085.3	1108.1	1121.0
67.5°	944.2	918.4	929.8	955.0	961.6
70°	775.9	756.2	774.0	793.1	796.4
72.5°	619.9	602.7	624.4	638.0	638.4
75°	469.0	458.4	484.0	490.4	492.7
77.5°	331.9	330.8	350.1	356.9	360.2
80°	214.5	221.5	235.1	245.6	246.8
82.5°	121.5	129.7	143.7	164.1	172.1
85°	56.2	64.8	82.8	100.5	108.1
87.5°	19.0	25.4	35.0	38.0	36.2
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	16.85	18.44	17.22	18.75	19.07	16.93	18.52	17.30	18.83	19.15
	3H	18.33	19.75	18.70	20.08	20.44	18.46	19.88	18.84	20.21	20.57
	4H	18.76	20.10	19.16	20.44	20.82	18.92	20.26	19.32	20.61	20.98
	6H	18.97	20.21	19.38	20.57	20.96	19.17	20.41	19.59	20.78	21.17
	8H	19.00	20.18	19.43	20.57	20.97	19.24	20.42	19.66	20.81	21.21
	12H	19.00	20.13	19.43	20.51	20.94	19.28	20.41	19.71	20.79	21.22
4H	2H	17.39	18.73	17.79	19.08	19.46	17.46	18.80	17.86	19.15	19.52
	3H	19.05	20.16	19.46	20.56	20.96	19.18	20.29	19.59	20.69	21.09
	4H	19.56	20.57	20.00	20.98	21.42	19.73	20.74	20.17	21.15	21.59
	6H	19.86	20.73	20.31	21.17	21.63	20.08	20.95	20.53	21.39	21.85
	8H	19.91	20.72	20.37	21.16	21.63	20.17	20.99	20.63	21.43	21.89
	12H	19.92	20.65	20.40	21.13	21.60	20.24	20.97	20.72	21.45	21.92
8H	4H	19.76	20.58	20.22	21.02	21.49	19.92	20.73	20.38	21.17	21.64
	6H	20.12	20.79	20.61	21.28	21.76	20.33	21.00	20.82	21.49	21.97
	8H	20.19	20.80	20.70	21.30	21.79	20.46	21.07	20.98	21.57	22.06
	12H	20.23	20.77	20.74	21.26	21.82	20.58	21.11	21.09	21.61	22.17
12H	4H	19.77	20.50	20.25	20.97	21.44	19.92	20.65	20.40	21.12	21.59
	6H	20.12	20.73	20.63	21.24	21.72	20.33	20.93	20.84	21.44	21.93
	8H	20.24	20.77	20.74	21.26	21.82	20.50	21.04	21.01	21.53	22.09