

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: P1498457

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498457
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-LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

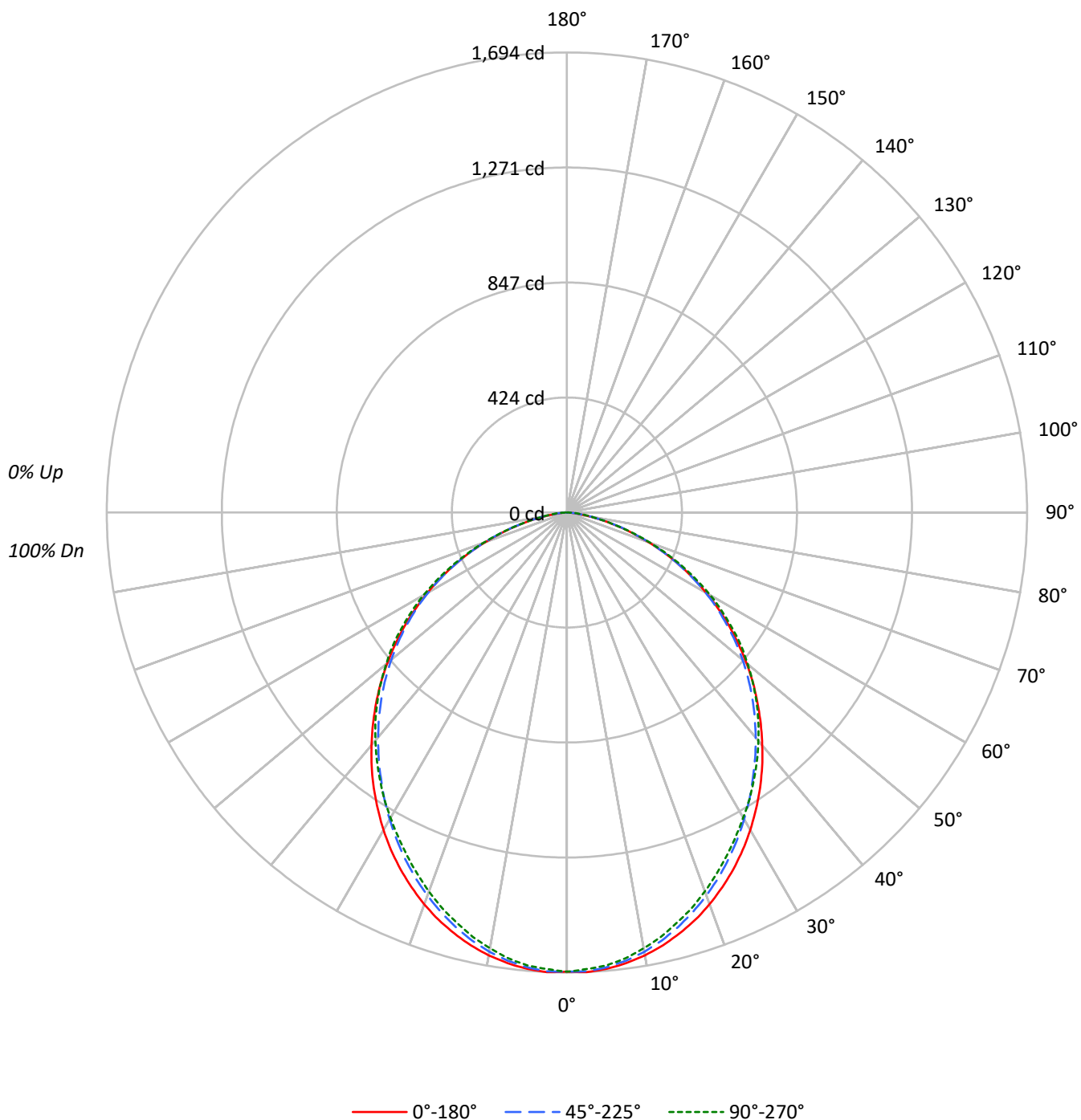
Lumens per Lamp: N/A
Luminaire Lumens: 4113.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 49
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	81	98	91	85	80	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	57		67	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	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4550	4550	4550
5°	4556	4541	4521
10°	4524	4487	4453
15°	4469	4403	4359
20°	4396	4298	4253
25°	4304	4181	4137
30°	4195	4054	4034
35°	4071	3922	3943
40°	3930	3798	3853
45°	3778	3671	3757
50°	3612	3533	3636
55°	3422	3370	3486
60°	3193	3168	3287
65°	2903	2899	2982
70°	2507	2533	2573
75°	1998	2057	2038
80°	1354	1433	1444
85°	698	963	1232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3778 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	3.9
10°-20°	445.2	10.8
20°-30°	650.8	15.8
30°-40°	754.5	18.3
40°-50°	753.0	18.3
50°-60°	648.5	15.8
60°-70°	452.8	11.0
70°-80°	209.6	5.1
80°-90°	39.5	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°	1254.9	30.5
0°-40°	2009.5	48.9
0°-60°	3411.1	82.9
0°-90°	4113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1691	1691	1691	1691	1691	
5°	1687	1681	1681	1672	1674	160
15°	1604	1593	1580	1564	1564	452
25°	1450	1433	1408	1392	1393	667
35°	1239	1218	1194	1193	1200	775
45°	993	974	965	977	987	766
55°	729	714	718	736	743	651
65°	456	449	455	463	468	451
75°	192	190	198	196	196	207
85°	23	25	31	37	40	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.8	1690.8	1690.8	1690.8	1690.8
2.5°	1694.2	1688.7	1690.8	1683.2	1682.8
5°	1686.8	1680.7	1681.2	1671.5	1673.7
7.5°	1673.9	1666.8	1664.7	1653.6	1655.7
10°	1655.8	1647.1	1642.2	1628.5	1629.6
12.5°	1632.8	1622.9	1614.3	1598.6	1600.3
15°	1604.1	1593.0	1580.3	1563.5	1564.5
17.5°	1572.6	1560.4	1542.5	1524.8	1527.5
20°	1535.2	1521.7	1500.8	1482.3	1485.2
22.5°	1493.8	1478.5	1456.6	1438.3	1439.8
25°	1449.6	1432.7	1408.1	1391.5	1393.4
27.5°	1401.5	1382.7	1357.7	1342.7	1345.9
30°	1349.9	1330.2	1304.7	1293.5	1298.1
32.5°	1295.6	1275.3	1250.5	1244.4	1251.2
35°	1239.3	1217.7	1194.0	1192.8	1200.4
37.5°	1180.7	1159.5	1138.1	1141.6	1149.6
40°	1118.7	1098.7	1081.2	1088.1	1096.7
42.5°	1056.4	1037.2	1023.6	1033.8	1043.2
45°	992.8	973.6	964.6	977.2	987.2
47.5°	929.5	910.3	905.3	919.9	928.9
50°	862.9	845.7	844.0	859.9	868.6
52.5°	795.7	779.7	781.7	798.9	809.6
55°	729.4	714.4	718.3	735.5	743.0
57.5°	661.1	649.1	654.6	669.9	677.4
60°	593.2	582.2	588.6	603.3	610.8
62.5°	524.5	514.9	522.5	534.9	539.8
65°	455.9	448.6	455.3	463.4	468.4
67.5°	388.4	381.6	389.0	397.0	398.9
70°	318.7	314.2	322.0	326.9	327.0
72.5°	254.4	250.2	257.7	259.8	258.7
75°	192.2	189.9	197.8	196.5	196.0
77.5°	135.6	136.5	140.9	140.0	139.8
80°	87.4	90.4	92.5	93.7	93.2
82.5°	49.2	52.0	55.0	61.6	64.2
85°	22.6	25.4	31.2	37.3	39.9
87.5°	7.6	9.9	13.1	14.1	13.3
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	16.19	17.77	16.56	18.09	18.40	16.40	17.99	16.77	18.30	18.61
	3H	17.66	19.08	18.03	19.41	19.77	17.87	19.30	18.25	19.63	19.99
	4H	18.08	19.42	18.48	19.77	20.14	18.29	19.63	18.69	19.98	20.36
	6H	18.29	19.53	18.70	19.89	20.28	18.50	19.74	18.92	20.11	20.50
	8H	18.32	19.50	18.74	19.88	20.28	18.55	19.73	18.98	20.12	20.52
	12H	18.32	19.44	18.75	19.83	20.25	18.58	19.71	19.01	20.09	20.52
4H	2H	16.75	18.09	17.15	18.43	18.81	16.92	18.26	17.32	18.61	18.98
	3H	18.39	19.50	18.80	19.90	20.30	18.58	19.69	18.99	20.09	20.49
	4H	18.90	19.90	19.33	20.32	20.75	19.09	20.09	19.52	20.51	20.94
	6H	19.19	20.06	19.64	20.50	20.96	19.38	20.25	19.84	20.69	21.15
	8H	19.23	20.04	19.69	20.49	20.95	19.45	20.27	19.91	20.71	21.17
	12H	19.24	19.97	19.73	20.45	20.92	19.50	20.23	19.99	20.71	21.18
8H	4H	19.09	19.90	19.55	20.35	20.81	19.26	20.08	19.72	20.52	20.98
	6H	19.43	20.10	19.93	20.59	21.07	19.61	20.28	20.11	20.77	21.25
	8H	19.50	20.10	20.02	20.61	21.10	19.72	20.32	20.23	20.83	21.32
	12H	19.54	20.07	20.05	20.56	21.13	19.81	20.34	20.32	20.83	21.40
12H	4H	19.09	19.82	19.57	20.30	20.77	19.26	19.99	19.74	20.46	20.93
	6H	19.43	20.04	19.95	20.54	21.03	19.61	20.21	20.12	20.72	21.21
	8H	19.54	20.07	20.05	20.56	21.12	19.75	20.28	20.26	20.77	21.34