

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: P1498166

Luminaire Tested: MAE-G-2-120-1LO-HI-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1LO-HI-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

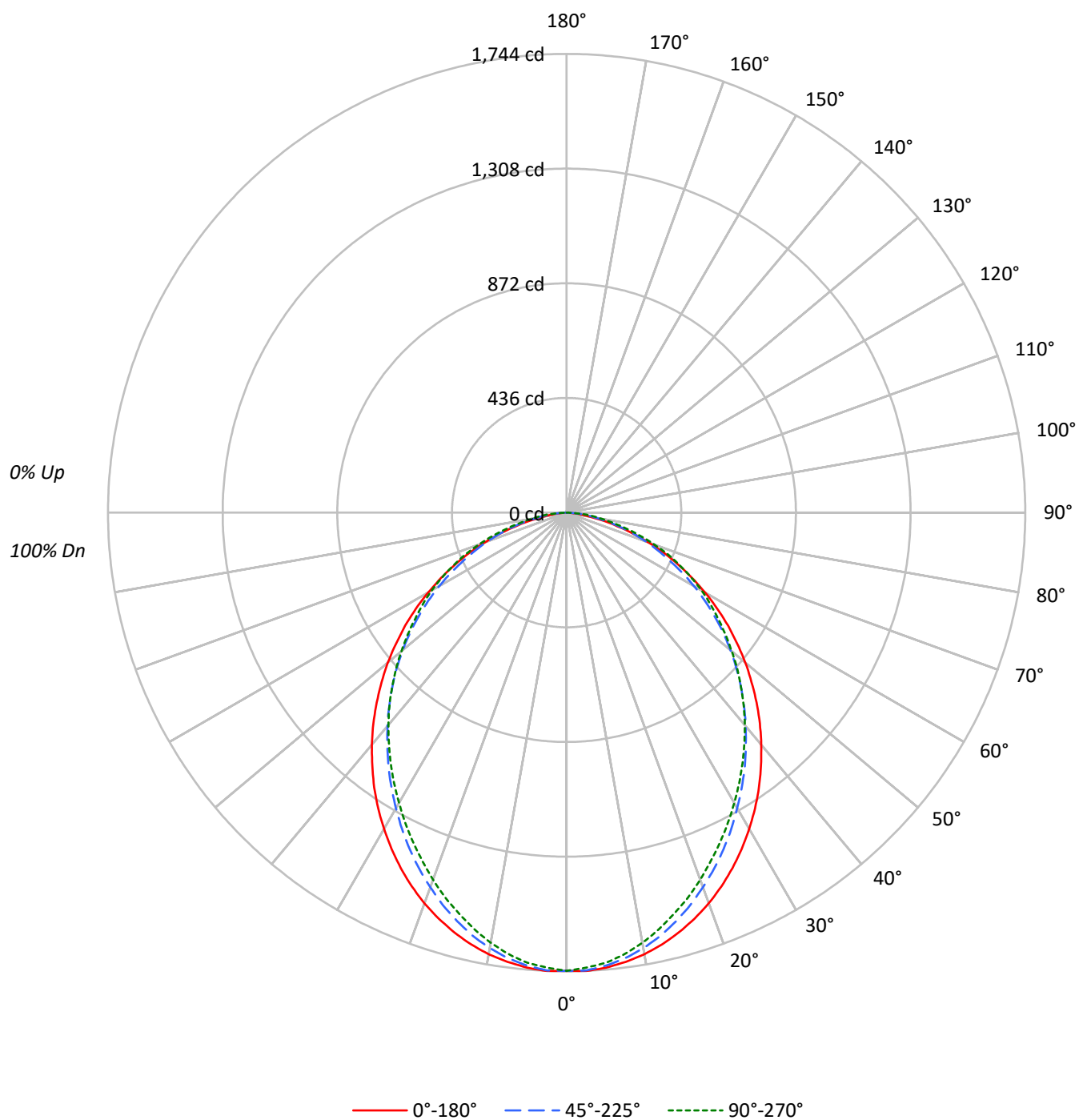
Lumens per Lamp: N/A
Luminaire Lumens: 4123.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	56		64
5	77	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4688	4688	4688
5°	4690	4670	4641
10°	4658	4595	4536
15°	4602	4480	4398
20°	4525	4340	4252
25°	4429	4192	4103
30°	4314	4031	3960
35°	4189	3878	3828
40°	4045	3721	3704
45°	3886	3567	3570
50°	3715	3405	3431
55°	3515	3222	3296
60°	3273	3012	3192
65°	2988	2757	3030
70°	2600	2515	2798
75°	2087	2210	2447
80°	1457	1804	2083
85°	818	1439	1936

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	4.0
10°-20°	453.4	11.0
20°-30°	655.2	15.9
30°-40°	750.4	18.2
40°-50°	739.4	17.9
50°-60°	631.0	15.3
60°-70°	448.8	10.9
70°-80°	227.9	5.5
80°-90°	53.5	1.3
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°	1271.9	30.8
0°-40°	2022.4	49.1
0°-60°	3392.8	82.3
0°-90°	4123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1742	1742	1742	1742	1742	
5°	1736	1735	1729	1714	1718	165
15°	1652	1640	1608	1578	1579	465
25°	1492	1464	1412	1382	1382	687
35°	1275	1236	1180	1162	1165	797
45°	1021	983	937	934	938	788
55°	749	714	687	693	703	669
65°	469	441	433	463	476	464
75°	201	188	213	232	235	216
85°	26	33	47	58	63	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1742.0	1742.0	1742.0	1742.0	1742.0
2.5°	1743.9	1745.6	1742.0	1727.8	1731.0
5°	1736.3	1735.0	1728.8	1714.0	1718.1
7.5°	1722.7	1719.8	1708.5	1690.4	1693.0
10°	1704.7	1698.9	1681.5	1658.6	1660.2
12.5°	1681.1	1672.8	1648.1	1621.2	1622.4
15°	1651.8	1640.1	1608.0	1578.1	1578.8
17.5°	1618.3	1604.0	1564.4	1531.9	1534.7
20°	1580.3	1561.5	1515.4	1483.3	1484.8
22.5°	1538.0	1514.8	1465.6	1433.4	1433.2
25°	1491.6	1463.8	1411.8	1381.8	1381.9
27.5°	1441.7	1410.8	1356.1	1327.4	1329.0
30°	1388.3	1354.7	1297.2	1272.7	1274.5
32.5°	1333.2	1297.1	1239.7	1218.6	1220.4
35°	1275.3	1236.1	1180.5	1162.4	1165.3
37.5°	1213.4	1175.0	1119.5	1107.7	1109.8
40°	1151.6	1112.1	1059.3	1050.7	1054.3
42.5°	1087.6	1048.7	998.9	992.8	997.3
45°	1021.1	982.9	937.3	934.2	938.1
47.5°	954.0	916.5	876.0	874.8	880.5
50°	887.4	850.8	813.4	815.3	819.6
52.5°	816.8	782.1	750.9	753.8	761.7
55°	749.3	714.2	686.7	693.1	702.6
57.5°	679.1	648.4	623.7	635.2	648.5
60°	608.1	578.2	559.6	579.0	593.1
62.5°	538.0	509.1	495.4	522.2	534.6
65°	469.2	441.2	433.0	462.7	475.9
67.5°	400.1	375.1	376.2	407.9	417.8
70°	330.5	307.9	319.7	348.5	355.6
72.5°	264.5	246.0	266.1	289.9	293.9
75°	200.7	188.5	212.6	231.5	235.4
77.5°	144.0	137.7	162.0	177.6	181.9
80°	94.0	95.8	116.4	129.7	134.4
82.5°	55.0	60.7	77.3	92.3	96.9
85°	26.5	33.3	46.6	57.7	62.7
87.5°	9.1	13.6	19.7	21.9	21.3
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	16.21	17.79	16.57	18.11	18.42	16.04	17.63	16.41	17.94	18.25
	3H	17.68	19.11	18.06	19.43	19.79	17.79	19.22	18.17	19.54	19.90
	4H	18.12	19.46	18.52	19.81	20.19	18.38	19.72	18.78	20.07	20.45
	6H	18.35	19.59	18.76	19.96	20.35	18.78	20.02	19.19	20.38	20.78
	8H	18.39	19.57	18.82	19.96	20.36	18.91	20.09	19.33	20.48	20.88
	12H	18.40	19.53	18.83	19.91	20.34	19.00	20.13	19.43	20.51	20.94
4H	2H	16.69	18.03	17.09	18.38	18.76	16.56	17.90	16.96	18.25	18.62
	3H	18.36	19.47	18.77	19.87	20.27	18.52	19.63	18.93	20.03	20.43
	4H	18.88	19.89	19.32	20.31	20.74	19.23	20.24	19.66	20.65	21.09
	6H	19.20	20.08	19.66	20.52	20.98	19.75	20.63	20.20	21.07	21.52
	8H	19.26	20.08	19.73	20.53	20.99	19.92	20.74	20.38	21.18	21.65
	12H	19.29	20.03	19.77	20.50	20.97	20.06	20.79	20.54	21.27	21.74
8H	4H	19.12	19.95	19.59	20.39	20.85	19.44	20.26	19.90	20.70	21.17
	6H	19.52	20.19	20.01	20.68	21.16	20.05	20.73	20.55	21.22	21.70
	8H	19.61	20.22	20.13	20.73	21.22	20.29	20.90	20.80	21.41	21.89
	12H	19.67	20.21	20.18	20.70	21.26	20.50	21.04	21.01	21.53	22.09
12H	4H	19.15	19.88	19.63	20.36	20.83	19.44	20.17	19.92	20.65	21.12
	6H	19.55	20.16	20.06	20.67	21.15	20.06	20.67	20.58	21.18	21.67
	8H	19.69	20.23	20.20	20.72	21.28	20.35	20.89	20.86	21.38	21.94