

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: P1498469

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498469
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-40-90-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

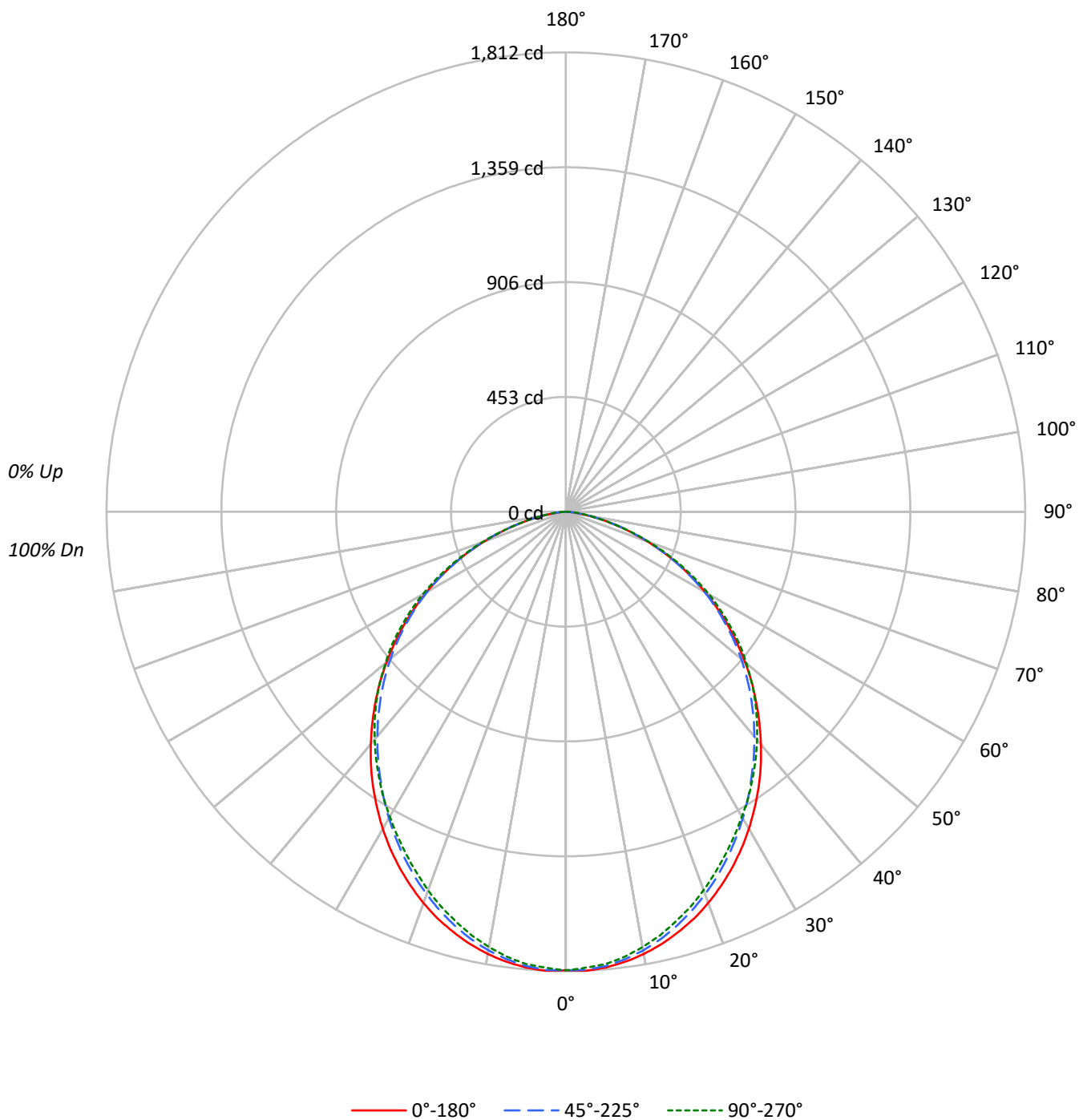
Lumens per Lamp: N/A
Luminaire Lumens: 4400.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61			
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53			
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46			
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41			
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36			
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32			
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29			
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4867	4867	4867
5°	4874	4858	4837
10°	4840	4800	4763
15°	4781	4710	4662
20°	4703	4597	4550
25°	4604	4473	4426
30°	4487	4337	4315
35°	4355	4196	4219
40°	4204	4063	4121
45°	4042	3927	4019
50°	3864	3780	3890
55°	3660	3605	3729
60°	3415	3389	3517
65°	3106	3101	3191
70°	2683	2710	2752
75°	2138	2200	2180
80°	1449	1534	1547
85°	744	1028	1318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4042 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.1	3.9
10°-20°	476.2	10.8
20°-30°	696.2	15.8
30°-40°	807.2	18.3
40°-50°	805.6	18.3
50°-60°	693.8	15.8
60°-70°	484.4	11.0
70°-80°	224.3	5.1
80°-90°	42.3	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°	1342.5	30.5
0°-40°	2149.7	48.9
0°-60°	3649.1	82.9
0°-90°	4400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1809	1809	1809	1809	1809	
5°	1804	1798	1799	1788	1790	171
15°	1716	1704	1690	1673	1674	484
25°	1551	1533	1506	1489	1491	714
35°	1326	1303	1277	1276	1284	829
45°	1062	1042	1032	1045	1056	819
55°	780	764	768	787	795	697
65°	488	480	487	496	501	483
75°	206	203	212	210	210	221
85°	24	27	33	40	43	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1808.7	1808.7	1808.7	1808.7	1808.7
2.5°	1812.4	1806.6	1808.7	1800.7	1800.3
5°	1804.5	1798.0	1798.6	1788.1	1790.5
7.5°	1790.6	1783.1	1780.9	1769.0	1771.2
10°	1771.4	1762.1	1756.8	1742.1	1743.2
12.5°	1746.7	1736.1	1727.0	1710.1	1711.9
15°	1716.1	1704.1	1690.5	1672.6	1673.6
17.5°	1682.3	1669.3	1650.1	1631.2	1634.2
20°	1642.3	1628.0	1605.4	1585.8	1588.8
22.5°	1598.1	1581.7	1558.2	1538.6	1540.3
25°	1550.7	1532.7	1506.4	1488.6	1490.6
27.5°	1499.3	1479.2	1452.4	1436.4	1439.9
30°	1444.1	1422.9	1395.8	1383.8	1388.7
32.5°	1385.9	1364.3	1337.8	1331.2	1338.7
35°	1325.8	1302.6	1277.3	1276.1	1284.2
37.5°	1263.1	1240.4	1217.5	1221.3	1229.9
40°	1196.8	1175.4	1156.7	1163.9	1173.2
42.5°	1130.2	1109.4	1095.0	1106.0	1116.0
45°	1062.0	1041.5	1032.0	1045.4	1056.1
47.5°	994.3	973.7	968.5	984.2	993.7
50°	923.1	904.7	902.9	919.9	929.2
52.5°	851.2	834.1	836.3	854.6	866.1
55°	780.2	764.3	768.5	786.8	794.9
57.5°	707.3	694.5	700.3	716.6	724.7
60°	634.6	622.8	629.7	645.4	653.4
62.5°	561.1	550.8	559.0	572.3	577.5
65°	487.8	479.9	487.0	495.8	501.1
67.5°	415.5	408.2	416.1	424.7	426.6
70°	341.0	336.2	344.5	349.7	349.8
72.5°	272.3	267.6	275.7	277.9	276.6
75°	205.6	203.2	211.6	210.3	209.7
77.5°	145.1	146.1	150.7	149.7	149.5
80°	93.5	96.8	99.0	100.3	99.8
82.5°	52.5	55.6	58.8	65.9	68.7
85°	24.1	27.2	33.3	39.9	42.7
87.5°	8.1	10.5	14.0	15.1	14.3
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	16.43	18.01	16.79	18.32	18.64	16.64	18.22	17.00	18.53	18.85
	3H	17.89	19.32	18.27	19.64	20.00	18.11	19.53	18.49	19.86	20.22
	4H	18.32	19.65	18.72	20.00	20.38	18.53	19.87	18.93	20.21	20.59
	6H	18.52	19.76	18.94	20.13	20.52	18.74	19.98	19.15	20.34	20.73
	8H	18.55	19.73	18.98	20.12	20.52	18.79	19.97	19.21	20.35	20.75
	12H	18.55	19.68	18.98	20.06	20.49	18.81	19.94	19.24	20.33	20.75
4H	2H	16.98	18.32	17.38	18.67	19.05	17.15	18.49	17.55	18.84	19.22
	3H	18.63	19.74	19.04	20.14	20.54	18.81	19.92	19.22	20.32	20.72
	4H	19.14	20.14	19.57	20.55	20.99	19.32	20.32	19.76	20.74	21.18
	6H	19.42	20.29	19.88	20.74	21.19	19.62	20.49	20.07	20.93	21.39
	8H	19.47	20.28	19.93	20.72	21.19	19.69	20.50	20.15	20.94	21.41
	12H	19.48	20.21	19.96	20.68	21.15	19.74	20.47	20.22	20.94	21.41
8H	4H	19.33	20.14	19.79	20.58	21.05	19.50	20.31	19.96	20.75	21.22
	6H	19.67	20.34	20.16	20.83	21.31	19.85	20.52	20.34	21.01	21.48
	8H	19.74	20.34	20.25	20.85	21.34	19.95	20.55	20.46	21.06	21.55
	12H	19.77	20.31	20.28	20.80	21.36	20.05	20.58	20.55	21.07	21.63
12H	4H	19.33	20.05	19.81	20.53	21.00	19.49	20.22	19.97	20.70	21.17
	6H	19.67	20.27	20.18	20.78	21.27	19.84	20.45	20.36	20.96	21.44
	8H	19.77	20.30	20.28	20.80	21.36	19.99	20.52	20.50	21.01	21.57