

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: P1498466

Luminaire Tested: MAE-G-2-120-2LO-LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498466
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-35-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

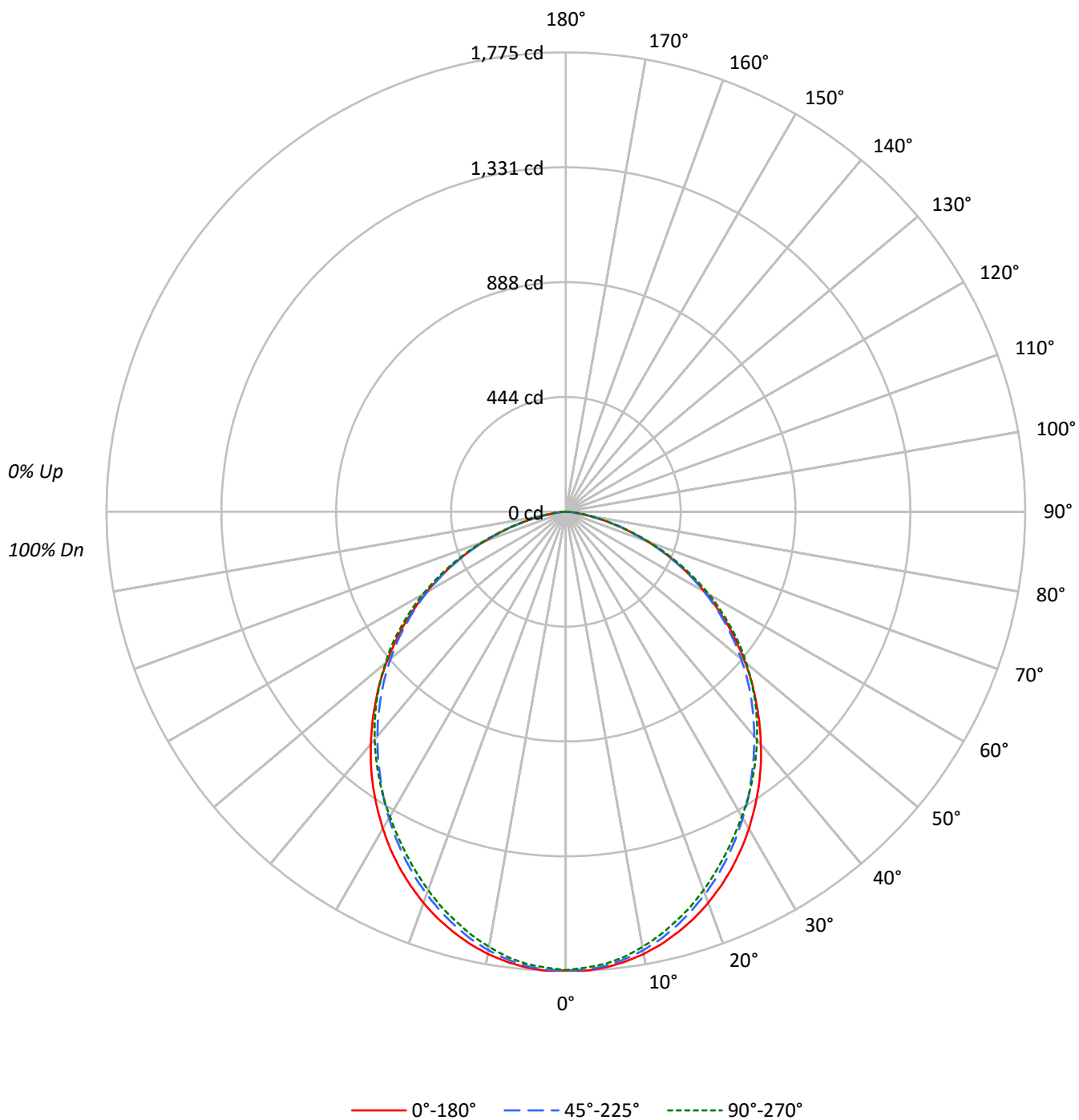
Lumens per Lamp: N/A
Luminaire Lumens: 4309.1 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4767	4767	4767
5°	4774	4758	4737
10°	4740	4701	4665
15°	4682	4612	4566
20°	4606	4503	4456
25°	4509	4380	4334
30°	4394	4247	4226
35°	4265	4109	4132
40°	4117	3979	4036
45°	3958	3846	3936
50°	3785	3702	3810
55°	3585	3531	3652
60°	3345	3319	3444
65°	3042	3037	3124
70°	2627	2654	2696
75°	2094	2154	2136
80°	1420	1503	1514
85°	732	1010	1288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3958 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.6	3.9
10°-20°	466.4	10.8
20°-30°	681.8	15.8
30°-40°	790.5	18.3
40°-50°	788.9	18.3
50°-60°	679.5	15.8
60°-70°	474.4	11.0
70°-80°	219.6	5.1
80°-90°	41.4	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°	1314.7	30.5
0°-40°	2105.2	48.9
0°-60°	3573.6	82.9
0°-90°	4309.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4309.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1771	1771	1771	1771	1771	
5°	1767	1761	1761	1751	1754	168
15°	1681	1669	1656	1638	1639	474
25°	1519	1501	1475	1458	1460	699
35°	1298	1276	1251	1250	1258	811
45°	1040	1020	1011	1024	1034	802
55°	764	748	753	770	778	682
65°	478	470	477	486	491	473
75°	201	199	207	206	205	217
85°	24	27	33	39	42	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1771.3	1771.3	1771.3	1771.3	1771.3
2.5°	1774.9	1769.2	1771.3	1763.5	1763.1
5°	1767.2	1760.9	1761.4	1751.1	1753.5
7.5°	1753.6	1746.2	1744.0	1732.4	1734.5
10°	1734.8	1725.6	1720.5	1706.1	1707.2
12.5°	1710.6	1700.2	1691.3	1674.7	1676.5
15°	1680.6	1668.9	1655.6	1638.1	1639.1
17.5°	1647.5	1634.8	1616.0	1597.5	1600.4
20°	1608.3	1594.3	1572.3	1552.9	1556.0
22.5°	1565.0	1549.0	1526.0	1506.8	1508.4
25°	1518.6	1500.9	1475.2	1457.8	1459.8
27.5°	1468.3	1448.6	1422.3	1406.7	1410.0
30°	1414.2	1393.5	1366.9	1355.2	1359.9
32.5°	1357.2	1336.0	1310.2	1303.7	1311.0
35°	1298.4	1275.7	1250.9	1249.7	1257.7
37.5°	1237.0	1214.7	1192.3	1196.1	1204.4
40°	1172.0	1151.1	1132.7	1139.9	1148.9
42.5°	1106.8	1086.5	1072.4	1083.1	1092.9
45°	1040.1	1020.0	1010.6	1023.8	1034.3
47.5°	973.8	953.6	948.5	963.8	973.2
50°	904.1	885.9	884.2	900.9	910.0
52.5°	833.6	816.8	819.0	836.9	848.2
55°	764.1	748.5	752.6	770.5	778.4
57.5°	692.6	680.2	685.8	701.8	709.8
60°	621.5	610.0	616.7	632.0	639.9
62.5°	549.5	539.5	547.3	560.4	565.5
65°	477.7	470.0	476.9	485.5	490.7
67.5°	407.0	399.8	407.6	415.9	417.9
70°	333.9	329.3	337.3	342.4	342.6
72.5°	266.6	262.2	270.0	272.2	271.0
75°	201.4	198.9	207.2	205.9	205.4
77.5°	142.1	143.0	147.6	146.7	146.5
80°	91.6	94.8	97.0	98.2	97.7
82.5°	51.5	54.5	57.6	64.5	67.3
85°	23.7	26.6	32.7	39.1	41.7
87.5°	8.0	10.3	13.7	14.8	14.0
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	16.35	17.94	16.72	18.25	18.57	16.56	18.15	16.93	18.46	18.78
	3H	17.82	19.24	18.20	19.57	19.93	18.04	19.46	18.41	19.79	20.15
	4H	18.24	19.58	18.64	19.93	20.31	18.46	19.79	18.85	20.14	20.52
	6H	18.45	19.69	18.86	20.05	20.45	18.67	19.90	19.08	20.27	20.66
	8H	18.48	19.66	18.91	20.05	20.45	18.71	19.89	19.14	20.28	20.68
	12H	18.48	19.61	18.91	19.99	20.42	18.74	19.87	19.17	20.25	20.68
4H	2H	16.91	18.25	17.31	18.60	18.97	17.08	18.42	17.48	18.77	19.14
	3H	18.55	19.67	18.96	20.06	20.46	18.74	19.85	19.15	20.25	20.65
	4H	19.06	20.07	19.50	20.48	20.92	19.25	20.25	19.68	20.67	21.10
	6H	19.35	20.22	19.81	20.66	21.12	19.54	20.41	20.00	20.86	21.31
	8H	19.39	20.21	19.86	20.65	21.12	19.61	20.43	20.08	20.87	21.34
	12H	19.41	20.13	19.89	20.61	21.08	19.67	20.39	20.15	20.87	21.34
8H	4H	19.25	20.07	19.71	20.51	20.98	19.42	20.24	19.89	20.68	21.15
	6H	19.60	20.27	20.09	20.76	21.23	19.77	20.45	20.27	20.94	21.41
	8H	19.67	20.27	20.18	20.78	21.26	19.88	20.48	20.39	20.99	21.48
	12H	19.70	20.23	20.21	20.72	21.29	19.97	20.50	20.48	21.00	21.56
12H	4H	19.25	19.98	19.73	20.46	20.93	19.42	20.15	19.90	20.63	21.10
	6H	19.60	20.20	20.11	20.71	21.19	19.77	20.37	20.28	20.88	21.37
	8H	19.70	20.23	20.21	20.72	21.29	19.91	20.44	20.42	20.94	21.50