

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: P1498895

Luminaire Tested: MAE-G-4-120-1HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498895
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-4-120-1HI-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

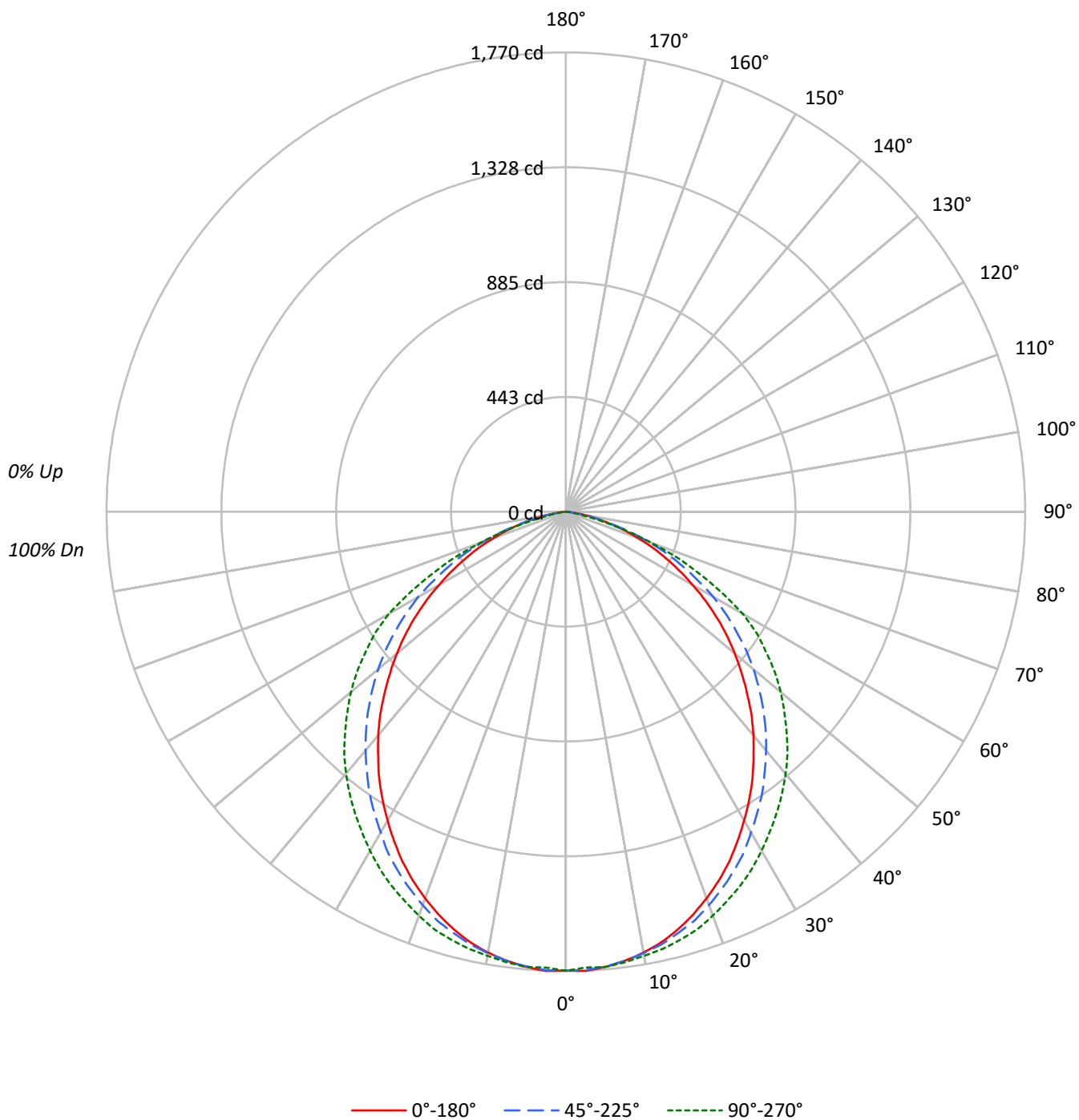
Lumens per Lamp: N/A
Luminaire Lumens: 4451.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.3
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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2379	2379	2379
5°	2378	2374	2378
10°	2356	2360	2374
15°	2321	2339	2378
20°	2269	2309	2371
25°	2209	2270	2360
30°	2134	2217	2344
35°	2060	2169	2327
40°	1975	2109	2314
45°	1878	2047	2289
50°	1778	1976	2263
55°	1665	1880	2208
60°	1520	1766	2122
65°	1361	1579	1822
70°	1161	1331	1391
75°	899	965	780
80°	591	512	276
85°	315	236	157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2289 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	3.8
10°-20°	474.5	10.7
20°-30°	705.5	15.9
30°-40°	829.5	18.6
40°-50°	837.2	18.8
50°-60°	726.9	16.3
60°-70°	494.7	11.1
70°-80°	192.7	4.3
80°-90°	23.1	0.5
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°	1346.9	30.3
0°-40°	2176.4	48.9
0°-60°	3740.5	84.0
0°-90°	4451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1768	1768	1768	1768	1768	
5°	1760	1758	1758	1758	1760	167
15°	1666	1669	1679	1697	1707	469
25°	1488	1496	1529	1567	1590	684
35°	1254	1269	1320	1381	1417	783
45°	987	1012	1076	1160	1203	762
55°	710	733	801	893	941	634
65°	427	448	496	550	572	424
75°	173	183	186	168	150	188
85°	20	20	15	13	10	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1768.0	1768.0	1768.0	1768.0	1768.0
2.5°	1770.5	1770.5	1768.0	1760.3	1757.8
5°	1760.3	1757.8	1757.8	1757.8	1760.3
7.5°	1745.1	1745.1	1745.1	1747.6	1750.2
10°	1724.7	1724.7	1727.3	1732.4	1737.4
12.5°	1699.3	1701.8	1706.9	1717.1	1724.7
15°	1666.2	1668.8	1678.9	1696.7	1706.9
17.5°	1628.1	1635.7	1651.0	1671.3	1686.6
20°	1584.8	1592.4	1612.8	1638.2	1656.0
22.5°	1539.0	1546.7	1572.1	1602.6	1623.0
25°	1488.1	1495.8	1528.8	1567.0	1589.9
27.5°	1432.2	1442.4	1483.1	1523.8	1551.7
30°	1373.7	1386.4	1427.1	1478.0	1508.5
32.5°	1315.2	1330.4	1373.7	1432.2	1462.7
35°	1254.1	1269.4	1320.3	1381.3	1416.9
37.5°	1188.0	1205.8	1259.2	1333.0	1368.6
40°	1124.4	1142.2	1200.7	1279.6	1317.7
42.5°	1058.2	1078.6	1139.6	1221.0	1264.3
45°	987.0	1012.4	1076.0	1160.0	1203.2
47.5°	918.3	941.2	1009.9	1096.4	1142.2
50°	849.6	875.1	943.8	1032.8	1081.1
52.5°	781.0	803.9	875.1	964.1	1015.0
55°	709.7	732.6	801.3	892.9	941.2
57.5°	638.5	666.5	730.1	819.1	872.5
60°	564.7	590.2	656.3	745.3	788.6
62.5°	496.0	518.9	574.9	658.9	679.2
65°	427.4	447.7	496.0	549.5	572.4
67.5°	363.8	379.0	422.3	457.9	468.1
70°	295.1	310.3	338.3	358.7	353.6
72.5°	234.0	244.2	262.0	259.5	246.8
75°	173.0	183.2	185.7	167.9	150.1
77.5°	122.1	127.2	119.6	94.1	76.3
80°	76.3	78.9	66.1	40.7	35.6
82.5°	43.2	43.2	30.5	25.4	20.4
85°	20.4	20.4	15.3	12.7	10.2
87.5°	7.6	7.6	5.1	5.1	5.1
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	13.61	15.19	13.98	15.51	15.82	15.19	16.77	15.56	17.09	17.40
	3H	14.95	16.37	15.33	16.70	17.06	16.46	17.88	16.84	18.21	18.57
	4H	15.32	16.65	15.72	17.00	17.37	16.66	17.99	17.06	18.34	18.71
	6H	15.48	16.71	15.89	17.08	17.47	16.66	17.88	17.07	18.25	18.64
	8H	15.50	16.67	15.92	17.06	17.46	16.63	17.80	17.06	18.19	18.59
	12H	15.49	16.61	15.92	16.99	17.42	16.60	17.72	17.03	18.11	18.53
4H	2H	14.28	15.61	14.68	15.96	16.33	15.57	16.90	15.97	17.25	17.63
	3H	15.78	16.88	16.19	17.28	17.68	17.01	18.11	17.42	18.51	18.91
	4H	16.22	17.21	16.65	17.62	18.06	17.26	18.25	17.69	18.67	19.10
	6H	16.45	17.30	16.90	17.75	18.20	17.29	18.15	17.75	18.59	19.05
	8H	16.47	17.27	16.93	17.71	18.18	17.26	18.06	17.72	18.51	18.97
	12H	16.47	17.19	16.95	17.67	18.14	17.24	17.96	17.72	18.43	18.90
8H	4H	16.38	17.18	16.84	17.62	18.09	17.35	18.15	17.81	18.59	19.06
	6H	16.64	17.30	17.13	17.79	18.26	17.38	18.04	17.88	18.53	19.01
	8H	16.68	17.27	17.19	17.78	18.26	17.35	17.94	17.87	18.45	18.94
	12H	16.70	17.22	17.21	17.71	18.27	17.34	17.86	17.85	18.35	18.91
12H	4H	16.36	17.07	16.84	17.55	18.02	17.33	18.05	17.81	18.52	19.00
	6H	16.61	17.20	17.12	17.71	18.20	17.35	17.94	17.87	18.45	18.94
	8H	16.68	17.20	17.19	17.69	18.25	17.35	17.87	17.86	18.36	18.93