

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: P1498901

Luminaire Tested: MAE-G-4-120-1HI-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498901
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-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

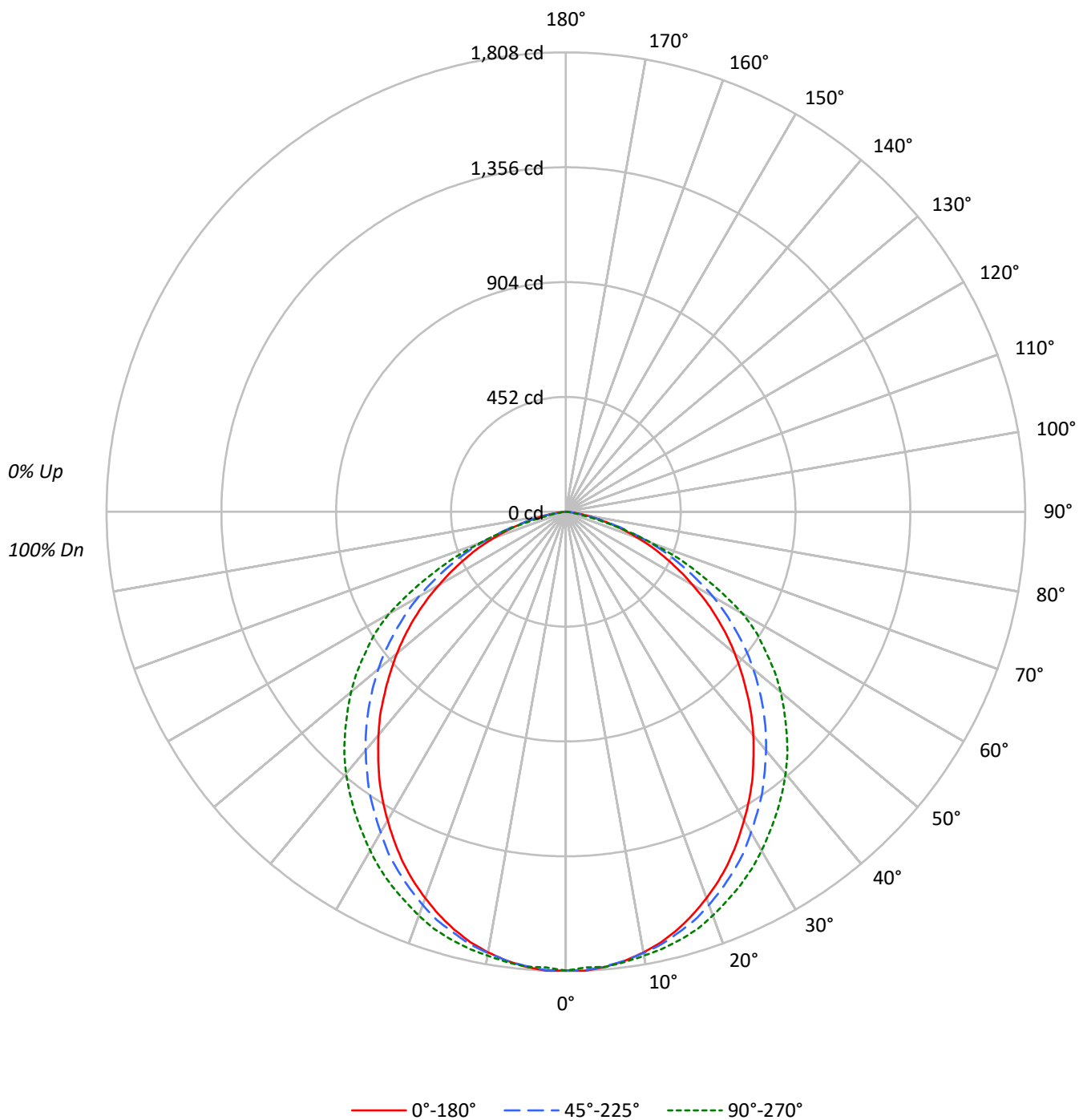
Lumens per Lamp: N/A
Luminaire Lumens: 4545.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2429	2429	2429
5°	2428	2424	2428
10°	2406	2410	2424
15°	2370	2388	2428
20°	2317	2358	2421
25°	2256	2318	2410
30°	2179	2264	2393
35°	2103	2214	2376
40°	2017	2154	2363
45°	1918	2091	2338
50°	1816	2017	2311
55°	1700	1919	2255
60°	1552	1803	2167
65°	1389	1613	1861
70°	1185	1359	1421
75°	918	986	797
80°	604	523	282
85°	321	241	161

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2338 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	3.8
10°-20°	484.5	10.7
20°-30°	720.4	15.9
30°-40°	847.0	18.6
40°-50°	854.8	18.8
50°-60°	742.3	16.3
60°-70°	505.2	11.1
70°-80°	196.8	4.3
80°-90°	23.6	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°	1375.4	30.3
0°-40°	2222.3	48.9
0°-60°	3819.4	84.0
0°-90°	4545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1798	1795	1795	1795	1798	170
15°	1701	1704	1714	1733	1743	479
25°	1520	1527	1561	1600	1624	699
35°	1281	1296	1348	1410	1447	800
45°	1008	1034	1099	1184	1229	778
55°	725	748	818	912	961	647
65°	436	457	506	561	584	433
75°	177	187	190	171	153	192
85°	21	21	16	13	10	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1805.3	1805.3	1805.3	1805.3	1805.3
2.5°	1807.9	1807.9	1805.3	1797.5	1794.9
5°	1797.5	1794.9	1794.9	1794.9	1797.5
7.5°	1781.9	1781.9	1781.9	1784.5	1787.1
10°	1761.1	1761.1	1763.7	1768.9	1774.1
12.5°	1735.2	1737.8	1743.0	1753.4	1761.1
15°	1701.4	1704.0	1714.4	1732.6	1743.0
17.5°	1662.4	1670.2	1685.8	1706.6	1722.2
20°	1618.3	1626.1	1646.9	1672.8	1691.0
22.5°	1571.5	1579.3	1605.3	1636.5	1657.2
25°	1519.6	1527.4	1561.1	1600.1	1623.5
27.5°	1462.4	1472.8	1514.4	1555.9	1584.5
30°	1402.7	1415.7	1457.2	1509.2	1540.4
32.5°	1342.9	1358.5	1402.7	1462.4	1493.6
35°	1280.6	1296.2	1348.1	1410.5	1446.8
37.5°	1213.1	1231.2	1285.8	1361.1	1397.5
40°	1148.1	1166.3	1226.1	1306.6	1345.5
42.5°	1080.6	1101.4	1163.7	1246.8	1291.0
45°	1007.9	1033.8	1098.8	1184.5	1228.6
47.5°	937.7	961.1	1031.2	1119.6	1166.3
50°	867.6	893.6	963.7	1054.6	1104.0
52.5°	797.5	820.8	893.6	984.5	1036.4
55°	724.7	748.1	818.2	911.7	961.1
57.5°	652.0	680.6	745.5	836.4	891.0
60°	576.7	602.6	670.2	761.1	805.2
62.5°	506.5	529.9	587.0	672.8	693.6
65°	436.4	457.2	506.5	561.1	584.5
67.5°	371.5	387.0	431.2	467.6	478.0
70°	301.3	316.9	345.5	366.3	361.1
72.5°	239.0	249.4	267.5	265.0	252.0
75°	176.6	187.0	189.6	171.4	153.3
77.5°	124.7	129.9	122.1	96.1	77.9
80°	77.9	80.5	67.5	41.6	36.4
82.5°	44.2	44.2	31.2	26.0	20.8
85°	20.8	20.8	15.6	13.0	10.4
87.5°	7.8	7.8	5.2	5.2	5.2
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	13.69	15.27	14.05	15.58	15.89	15.27	16.85	15.63	17.16	17.47
	3H	15.02	16.44	15.40	16.77	17.13	16.54	17.95	16.91	18.28	18.64
	4H	15.39	16.72	15.79	17.07	17.45	16.73	18.06	17.13	18.41	18.79
	6H	15.56	16.78	15.97	17.15	17.54	16.73	17.96	17.14	18.32	18.71
	8H	15.57	16.74	16.00	17.13	17.53	16.70	17.87	17.13	18.26	18.66
	12H	15.56	16.68	15.99	17.06	17.49	16.68	17.80	17.11	18.18	18.61
4H	2H	14.35	15.68	14.75	16.03	16.41	15.64	16.97	16.04	17.32	17.70
	3H	15.85	16.95	16.26	17.35	17.75	17.08	18.18	17.49	18.58	18.98
	4H	16.29	17.28	16.72	17.70	18.13	17.33	18.32	17.77	18.74	19.18
	6H	16.52	17.38	16.97	17.82	18.28	17.36	18.22	17.82	18.66	19.12
	8H	16.54	17.34	17.00	17.79	18.25	17.34	18.14	17.80	18.58	19.05
	12H	16.55	17.26	17.03	17.74	18.21	17.31	18.03	17.80	18.51	18.98
8H	4H	16.45	17.25	16.91	17.69	18.16	17.42	18.22	17.88	18.66	19.13
	6H	16.71	17.37	17.21	17.86	18.34	17.45	18.11	17.95	18.60	19.08
	8H	16.75	17.34	17.26	17.85	18.34	17.43	18.02	17.94	18.52	19.01
	12H	16.77	17.29	17.28	17.78	18.35	17.41	17.93	17.92	18.42	18.99
12H	4H	16.43	17.15	16.91	17.62	18.09	17.40	18.12	17.89	18.60	19.07
	6H	16.68	17.27	17.19	17.78	18.27	17.43	18.02	17.94	18.52	19.01
	8H	16.75	17.27	17.26	17.76	18.32	17.42	17.94	17.93	18.43	19.00