

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: P1498709

Luminaire Tested: MAE-G-2-120-3LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

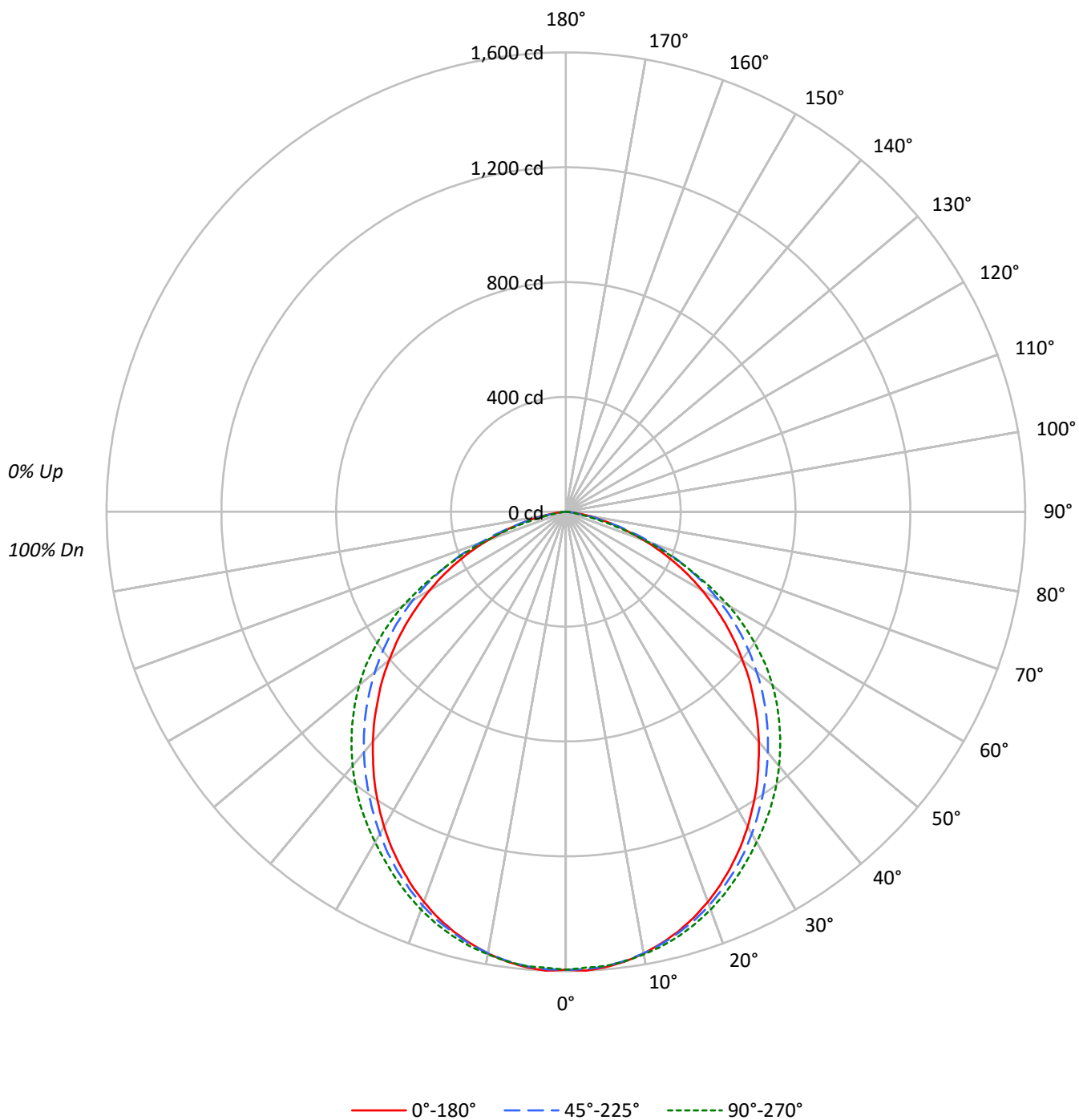
Lumens per Lamp: N/A
Luminaire Lumens: 4042.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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				0
RW	70	50	30	10	70	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		100
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		73
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		62
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		53
5	78	65	56	50	76	64	56	50	62	55	49		60	54	49		46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		41
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		32
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		29
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4292	4292	4292
5°	4301	4292	4290
10°	4269	4267	4277
15°	4215	4228	4259
20°	4141	4179	4223
25°	4045	4110	4174
30°	3936	4025	4131
35°	3812	3933	4099
40°	3673	3844	4058
45°	3524	3749	4006
50°	3360	3634	3935
55°	3180	3493	3783
60°	2951	3300	3531
65°	2665	3010	3024
70°	2275	2527	2350
75°	1786	1843	1445
80°	1165	948	559
85°	559	374	296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4006 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	3.7
10°-20°	427.7	10.6
20°-30°	636.1	15.7
30°-40°	749.5	18.5
40°-50°	759.9	18.8
50°-60°	662.2	16.4
60°-70°	452.9	11.2
70°-80°	181.9	4.5
80°-90°	21.1	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°	1214.4	30.0
0°-40°	1963.9	48.6
0°-60°	3386.1	83.8
0°-90°	4042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1595	1595	1595	1595	1595	
5°	1592	1583	1589	1587	1588	151
15°	1513	1506	1518	1524	1529	426
25°	1362	1363	1384	1394	1406	627
35°	1160	1166	1197	1227	1248	725
45°	926	938	985	1030	1053	715
55°	678	692	744	791	806	605
65°	418	437	473	476	475	414
75°	172	183	177	152	139	185
85°	18	16	12	11	10	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1594.8	1594.8	1594.8	1594.8	1594.8
2.5°	1599.9	1589.2	1594.8	1593.6	1589.6
5°	1592.2	1582.6	1588.8	1587.0	1588.1
7.5°	1579.6	1570.8	1577.4	1577.1	1578.9
10°	1562.3	1553.5	1561.6	1563.1	1565.3
12.5°	1539.4	1532.1	1542.1	1545.0	1549.4
15°	1512.9	1506.3	1517.7	1524.0	1528.8
17.5°	1481.9	1476.4	1491.1	1497.1	1503.7
20°	1446.1	1442.1	1459.4	1465.0	1474.6
22.5°	1406.4	1404.2	1422.2	1430.6	1441.7
25°	1362.4	1362.8	1384.2	1394.2	1405.9
27.5°	1316.4	1317.1	1341.5	1355.4	1368.0
30°	1266.6	1268.8	1295.4	1312.7	1329.3
32.5°	1213.9	1218.3	1247.0	1270.7	1289.1
35°	1160.4	1165.5	1197.3	1226.7	1247.8
37.5°	1102.5	1111.0	1146.8	1181.8	1203.5
40°	1045.7	1054.2	1094.4	1133.1	1155.3
42.5°	987.1	997.8	1040.6	1083.7	1105.1
45°	925.9	938.4	985.2	1029.5	1052.7
47.5°	867.2	878.3	927.7	973.8	997.8
50°	802.7	816.7	868.0	916.3	939.9
52.5°	741.2	754.0	806.8	856.2	877.6
55°	677.8	692.1	744.5	791.3	806.4
57.5°	612.8	630.2	680.7	719.8	734.1
60°	548.3	565.6	613.2	645.3	656.0
62.5°	484.1	502.6	544.3	565.6	565.6
65°	418.5	437.3	472.7	476.4	474.9
67.5°	352.9	371.7	398.6	391.9	387.5
70°	289.1	305.3	321.2	309.0	298.7
72.5°	227.1	242.6	245.2	227.5	214.6
75°	171.8	183.3	177.3	152.3	139.0
77.5°	119.8	126.5	113.9	88.5	77.8
80°	75.2	78.2	61.2	43.1	36.1
82.5°	40.6	40.9	26.6	21.8	20.3
85°	18.1	16.2	12.1	10.7	9.6
87.5°	6.3	5.5	4.4	4.1	3.3
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	15.99	17.57	16.35	17.88	18.20	16.97	18.55	17.34	18.87	19.18
	3H	17.40	18.82	17.77	19.15	19.51	18.17	19.60	18.55	19.92	20.28
	4H	17.79	19.12	18.19	19.47	19.85	18.39	19.73	18.79	20.07	20.45
	6H	17.97	19.20	18.38	19.56	19.95	18.41	19.64	18.82	20.01	20.40
	8H	17.98	19.15	18.41	19.54	19.94	18.39	19.56	18.81	19.95	20.35
	12H	17.97	19.09	18.40	19.48	19.91	18.36	19.48	18.79	19.87	20.29
4H	2H	16.66	17.99	17.06	18.34	18.72	17.45	18.78	17.85	19.13	19.51
	3H	18.23	19.33	18.64	19.73	20.13	18.82	19.92	19.23	20.32	20.72
	4H	18.70	19.70	19.14	20.11	20.55	19.09	20.08	19.52	20.50	20.94
	6H	18.94	19.80	19.40	20.25	20.70	19.14	20.00	19.60	20.45	20.90
	8H	18.97	19.77	19.43	20.21	20.68	19.12	19.92	19.58	20.37	20.83
	12H	18.97	19.68	19.45	20.16	20.63	19.10	19.82	19.58	20.29	20.76
8H	4H	18.85	19.65	19.31	20.10	20.56	19.21	20.01	19.67	20.46	20.92
	6H	19.12	19.79	19.62	20.28	20.75	19.27	19.93	19.76	20.42	20.90
	8H	19.16	19.76	19.68	20.26	20.75	19.25	19.84	19.76	20.35	20.83
	12H	19.18	19.70	19.69	20.19	20.76	19.23	19.75	19.74	20.24	20.81
12H	4H	18.83	19.55	19.31	20.03	20.50	19.20	19.92	19.68	20.39	20.86
	6H	19.09	19.69	19.61	20.20	20.68	19.25	19.84	19.76	20.35	20.83
	8H	19.16	19.68	19.67	20.17	20.74	19.25	19.77	19.76	20.26	20.82