

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: P1498718

Luminaire Tested: MAE-G-2-120-3LO-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498718
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-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

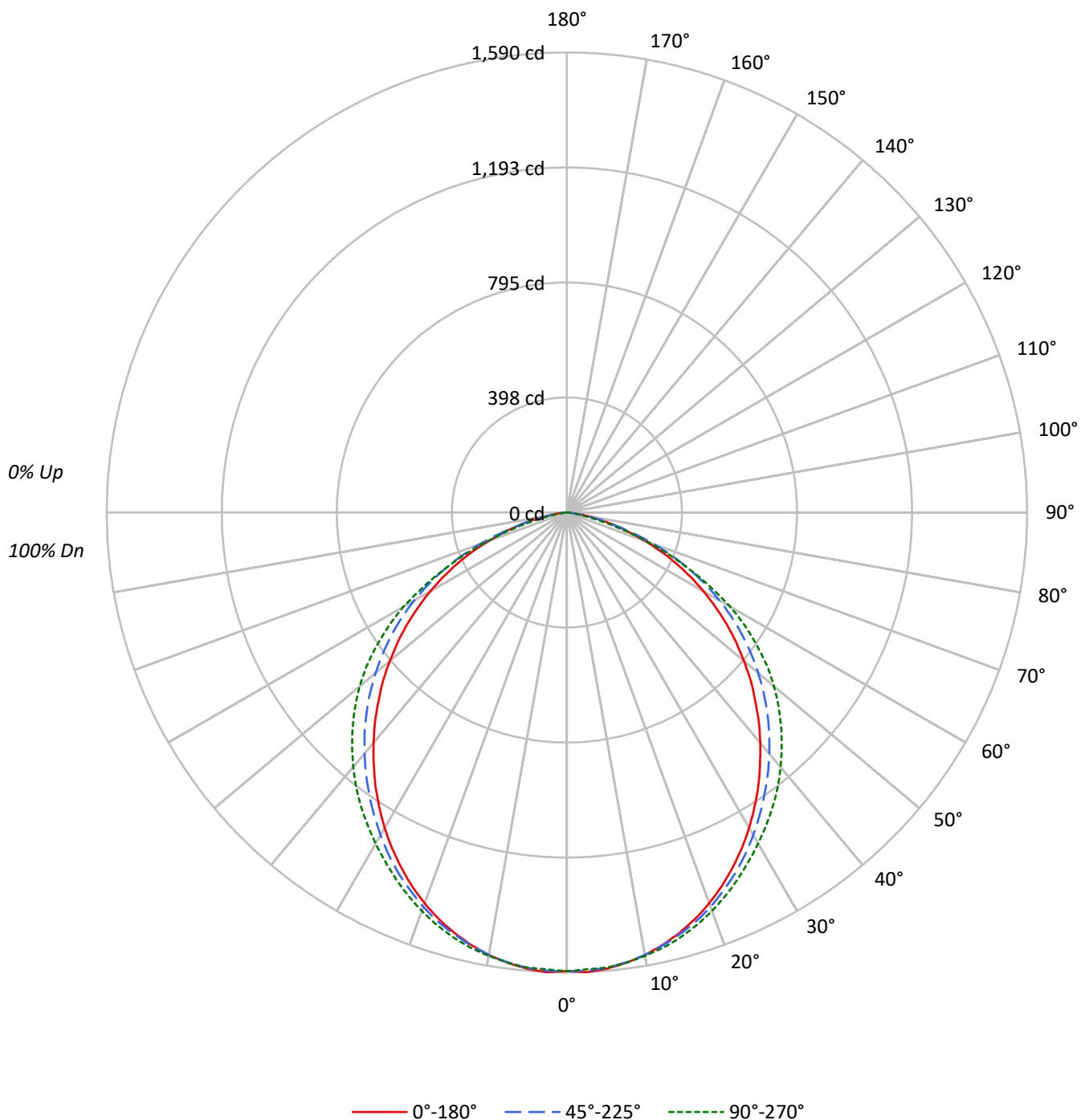
Lumens per Lamp: N/A
Luminaire Lumens: 4018.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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				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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4266	4266	4266
5°	4275	4266	4264
10°	4244	4242	4252
15°	4190	4203	4234
20°	4117	4154	4198
25°	4021	4086	4150
30°	3912	4001	4106
35°	3789	3910	4074
40°	3652	3822	4034
45°	3503	3727	3983
50°	3340	3612	3912
55°	3161	3472	3761
60°	2934	3281	3510
65°	2649	2992	3006
70°	2261	2512	2336
75°	1776	1833	1437
80°	1159	942	556
85°	556	374	296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.8	3.7
10°-20°	425.1	10.6
20°-30°	632.3	15.7
30°-40°	745.1	18.5
40°-50°	755.4	18.8
50°-60°	658.3	16.4
60°-70°	450.2	11.2
70°-80°	180.8	4.5
80°-90°	21.0	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°	1207.2	30.0
0°-40°	1952.3	48.6
0°-60°	3366.0	83.8
0°-90°	4018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4018.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1583	1573	1579	1578	1579	150
15°	1504	1497	1509	1515	1520	424
25°	1354	1355	1376	1386	1398	624
35°	1154	1159	1190	1219	1240	721
45°	920	933	979	1023	1046	710
55°	674	688	740	787	802	601
65°	416	435	470	474	472	411
75°	171	182	176	151	138	183
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°	1585.3	1585.3	1585.3	1585.3	1585.3
2.5°	1590.4	1579.8	1585.3	1584.2	1580.1
5°	1582.7	1573.2	1579.4	1577.6	1578.7
7.5°	1570.2	1561.5	1568.1	1567.7	1569.5
10°	1553.1	1544.2	1552.3	1553.8	1556.0
12.5°	1530.3	1523.0	1532.9	1535.8	1540.2
15°	1503.9	1497.3	1508.7	1514.9	1519.7
17.5°	1473.1	1467.6	1482.3	1488.2	1494.7
20°	1437.5	1433.6	1450.7	1456.3	1465.8
22.5°	1398.0	1395.8	1413.7	1422.1	1433.2
25°	1354.3	1354.7	1376.0	1385.9	1397.6
27.5°	1308.6	1309.3	1333.5	1347.4	1359.8
30°	1259.1	1261.3	1287.7	1304.9	1321.4
32.5°	1206.6	1211.0	1239.6	1263.1	1281.4
35°	1153.5	1158.6	1190.2	1219.4	1240.3
37.5°	1096.0	1104.4	1140.0	1174.8	1196.4
40°	1039.5	1047.9	1087.9	1126.4	1148.4
42.5°	981.3	991.9	1034.4	1077.3	1098.5
45°	920.4	932.8	979.4	1023.4	1046.5
47.5°	862.1	873.1	922.2	968.1	991.9
50°	797.9	811.9	862.8	910.9	934.4
52.5°	736.8	749.6	802.0	851.2	872.4
55°	673.7	688.0	740.1	786.6	801.7
57.5°	609.2	626.4	676.6	715.5	729.8
60°	545.1	562.2	609.6	641.5	652.1
62.5°	481.2	499.6	541.0	562.2	562.2
65°	416.0	434.7	469.9	473.5	472.1
67.5°	350.8	369.5	396.2	389.6	385.2
70°	287.4	303.5	319.3	307.1	296.9
72.5°	225.8	241.2	243.8	226.2	213.3
75°	170.8	182.2	176.3	151.4	138.2
77.5°	119.1	125.7	113.3	88.0	77.4
80°	74.8	77.7	60.8	42.9	35.9
82.5°	40.3	40.7	26.4	21.6	20.2
85°	18.0	16.1	12.1	10.6	9.6
87.5°	6.2	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	15.97	17.55	16.33	17.86	18.18	16.95	18.53	17.31	18.85	19.16
	3H	17.38	18.80	17.75	19.13	19.49	18.15	19.58	18.53	19.90	20.26
	4H	17.77	19.10	18.17	19.45	19.83	18.37	19.70	18.77	20.05	20.43
	6H	17.95	19.18	18.36	19.54	19.93	18.39	19.62	18.80	19.99	20.38
	8H	17.96	19.13	18.38	19.52	19.92	18.36	19.54	18.79	19.93	20.33
	12H	17.95	19.07	18.38	19.46	19.88	18.34	19.46	18.77	19.85	20.27
4H	2H	16.64	17.97	17.04	18.32	18.70	17.43	18.76	17.83	19.11	19.49
	3H	18.21	19.31	18.62	19.71	20.11	18.80	19.90	19.21	20.30	20.70
	4H	18.68	19.68	19.11	20.09	20.53	19.07	20.06	19.50	20.48	20.92
	6H	18.92	19.78	19.38	20.23	20.68	19.12	19.98	19.58	20.42	20.88
	8H	18.95	19.75	19.41	20.19	20.66	19.10	19.90	19.56	20.34	20.81
	12H	18.95	19.66	19.43	20.14	20.61	19.08	19.79	19.56	20.27	20.74
8H	4H	18.83	19.63	19.29	20.08	20.54	19.19	19.99	19.65	20.44	20.90
	6H	19.10	19.76	19.60	20.25	20.73	19.25	19.91	19.74	20.40	20.88
	8H	19.14	19.73	19.66	20.24	20.73	19.23	19.82	19.74	20.33	20.81
	12H	19.16	19.68	19.67	20.17	20.73	19.21	19.73	19.72	20.22	20.79
12H	4H	18.81	19.53	19.29	20.01	20.48	19.18	19.90	19.66	20.37	20.84
	6H	19.07	19.67	19.59	20.17	20.66	19.22	19.82	19.74	20.33	20.81
	8H	19.14	19.66	19.65	20.15	20.72	19.23	19.75	19.73	20.24	20.80