

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: P1498714

Luminaire Tested: MAE-G-2-120-3LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498714
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-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

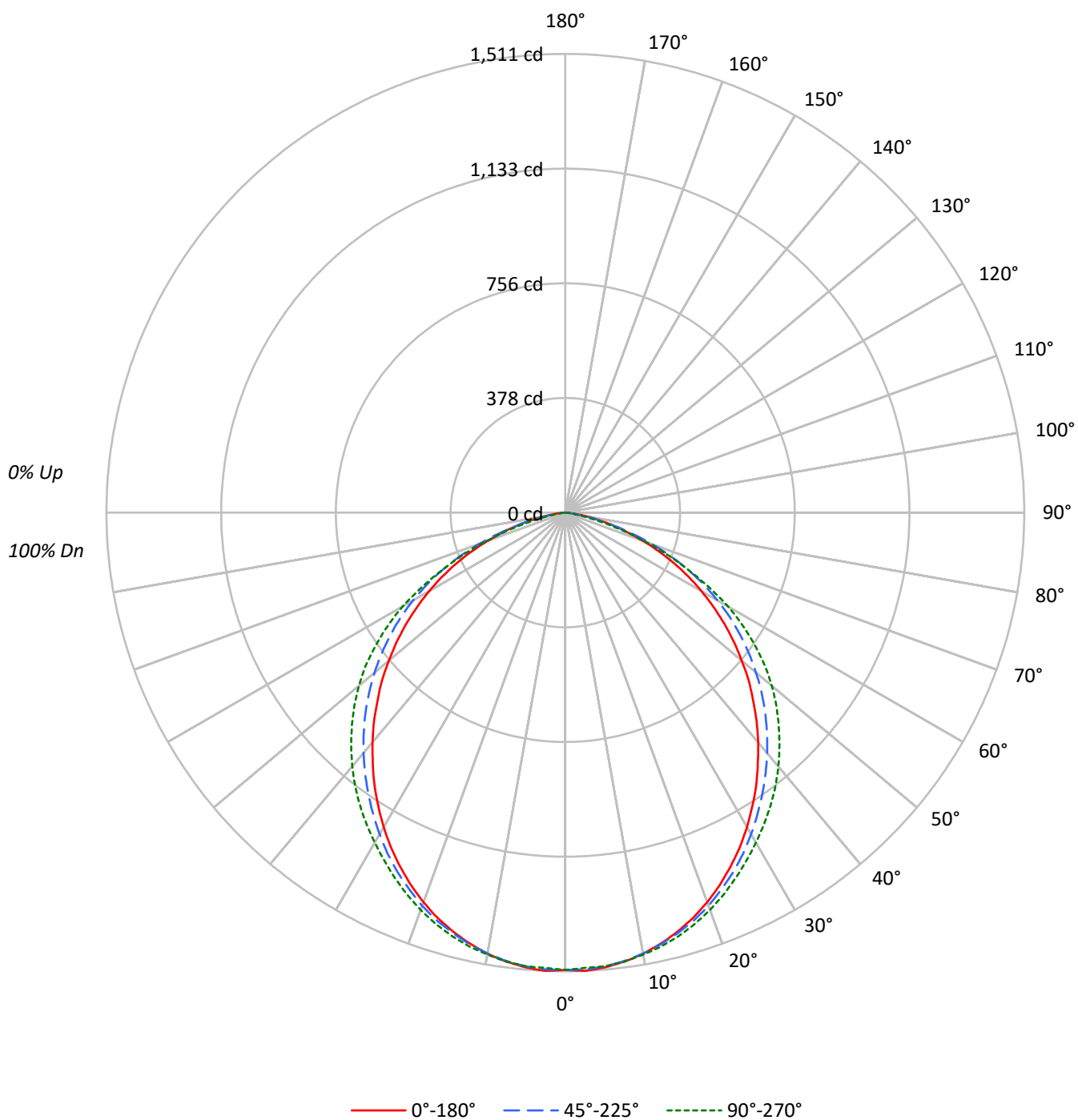
Lumens per Lamp: N/A
Luminaire Lumens: 3817.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4053	4053	4053
5°	4061	4053	4051
10°	4032	4030	4039
15°	3980	3993	4022
20°	3911	3947	3988
25°	3820	3881	3942
30°	3717	3801	3901
35°	3600	3714	3871
40°	3469	3631	3832
45°	3328	3541	3783
50°	3173	3432	3716
55°	3003	3299	3573
60°	2787	3117	3334
65°	2516	2842	2856
70°	2148	2386	2220
75°	1686	1742	1365
80°	1100	896	528
85°	528	355	281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3783 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	3.7
10°-20°	403.9	10.6
20°-30°	600.7	15.7
30°-40°	707.8	18.5
40°-50°	717.7	18.8
50°-60°	625.4	16.4
60°-70°	427.7	11.2
70°-80°	171.8	4.5
80°-90°	19.9	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°	1146.8	30.0
0°-40°	1854.6	48.6
0°-60°	3197.6	83.8
0°-90°	3817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1506	1506	1506	1506	1506	
5°	1504	1494	1500	1499	1500	143
15°	1429	1422	1433	1439	1444	403
25°	1287	1287	1307	1317	1328	592
35°	1096	1101	1131	1158	1178	685
45°	874	886	930	972	994	675
55°	640	654	703	747	762	571
65°	395	413	446	450	448	391
75°	162	173	168	144	131	174
85°	17	15	12	10	9	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.0	1506.0	1506.0	1506.0	1506.0
2.5°	1510.9	1500.8	1506.0	1504.9	1501.1
5°	1503.5	1494.5	1500.4	1498.7	1499.7
7.5°	1491.7	1483.4	1489.6	1489.3	1491.0
10°	1475.4	1467.0	1474.7	1476.1	1478.1
12.5°	1453.8	1446.8	1456.2	1459.0	1463.1
15°	1428.7	1422.4	1433.2	1439.1	1443.7
17.5°	1399.4	1394.2	1408.1	1413.7	1420.0
20°	1365.6	1361.9	1378.2	1383.4	1392.5
22.5°	1328.1	1326.0	1343.0	1351.0	1361.5
25°	1286.6	1287.0	1307.1	1316.6	1327.7
27.5°	1243.1	1243.8	1266.8	1280.0	1291.8
30°	1196.1	1198.2	1223.2	1239.6	1255.3
32.5°	1146.3	1150.4	1177.6	1199.9	1217.3
35°	1095.8	1100.6	1130.7	1158.4	1178.3
37.5°	1041.2	1049.2	1082.9	1116.0	1136.5
40°	987.5	995.5	1033.5	1070.0	1090.9
42.5°	932.2	942.3	982.7	1023.4	1043.5
45°	874.4	886.2	930.4	972.2	994.1
47.5°	819.0	829.4	876.1	919.6	942.3
50°	758.0	771.2	819.7	865.3	887.6
52.5°	699.9	712.1	761.9	808.6	828.7
55°	640.0	653.6	703.1	747.2	761.5
57.5°	578.7	595.1	642.8	679.7	693.3
60°	517.8	534.1	579.1	609.4	619.5
62.5°	457.2	474.6	514.0	534.1	534.1
65°	395.2	413.0	446.4	449.8	448.5
67.5°	333.2	351.0	376.4	370.1	366.0
70°	273.0	288.3	303.3	291.8	282.1
72.5°	214.5	229.1	231.6	214.9	202.6
75°	162.2	173.1	167.5	143.8	131.3
77.5°	113.1	119.4	107.6	83.6	73.5
80°	71.0	73.8	57.8	40.7	34.1
82.5°	38.3	38.6	25.1	20.5	19.2
85°	17.1	15.3	11.5	10.1	9.1
87.5°	5.9	5.2	4.2	3.8	3.2
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	15.79	17.37	16.15	17.69	18.00	16.77	18.35	17.14	18.67	18.98
	3H	17.20	18.62	17.58	18.95	19.31	17.98	19.40	18.35	19.72	20.09
	4H	17.59	18.93	17.99	19.27	19.65	18.19	19.53	18.59	19.87	20.25
	6H	17.77	19.00	18.18	19.36	19.76	18.21	19.44	18.62	19.81	20.20
	8H	17.78	18.95	18.21	19.34	19.74	18.19	19.36	18.61	19.75	20.15
	12H	17.77	18.90	18.20	19.28	19.71	18.16	19.29	18.59	19.67	20.10
4H	2H	16.46	17.79	16.86	18.14	18.52	17.25	18.58	17.65	18.93	19.31
	3H	18.03	19.13	18.44	19.53	19.93	18.62	19.72	19.03	20.12	20.52
	4H	18.50	19.50	18.94	19.91	20.35	18.89	19.89	19.32	20.30	20.74
	6H	18.74	19.61	19.20	20.05	20.51	18.94	19.80	19.40	20.25	20.70
	8H	18.77	19.57	19.23	20.01	20.48	18.92	19.72	19.38	20.17	20.63
	12H	18.77	19.49	19.25	19.96	20.43	18.90	19.62	19.38	20.09	20.56
8H	4H	18.65	19.45	19.11	19.90	20.36	19.01	19.81	19.47	20.26	20.72
	6H	18.92	19.59	19.42	20.08	20.55	19.07	19.73	19.57	20.22	20.70
	8H	18.96	19.56	19.48	20.06	20.55	19.05	19.64	19.56	20.15	20.64
	12H	18.98	19.50	19.49	19.99	20.56	19.03	19.55	19.54	20.05	20.61
12H	4H	18.63	19.35	19.11	19.83	20.30	19.00	19.72	19.48	20.19	20.67
	6H	18.89	19.49	19.41	20.00	20.48	19.05	19.64	19.56	20.15	20.64
	8H	18.96	19.48	19.47	19.97	20.54	19.05	19.57	19.56	20.06	20.62