

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: P1498465

Luminaire Tested: MAE-G-2-120-2LO-LO-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-LO-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

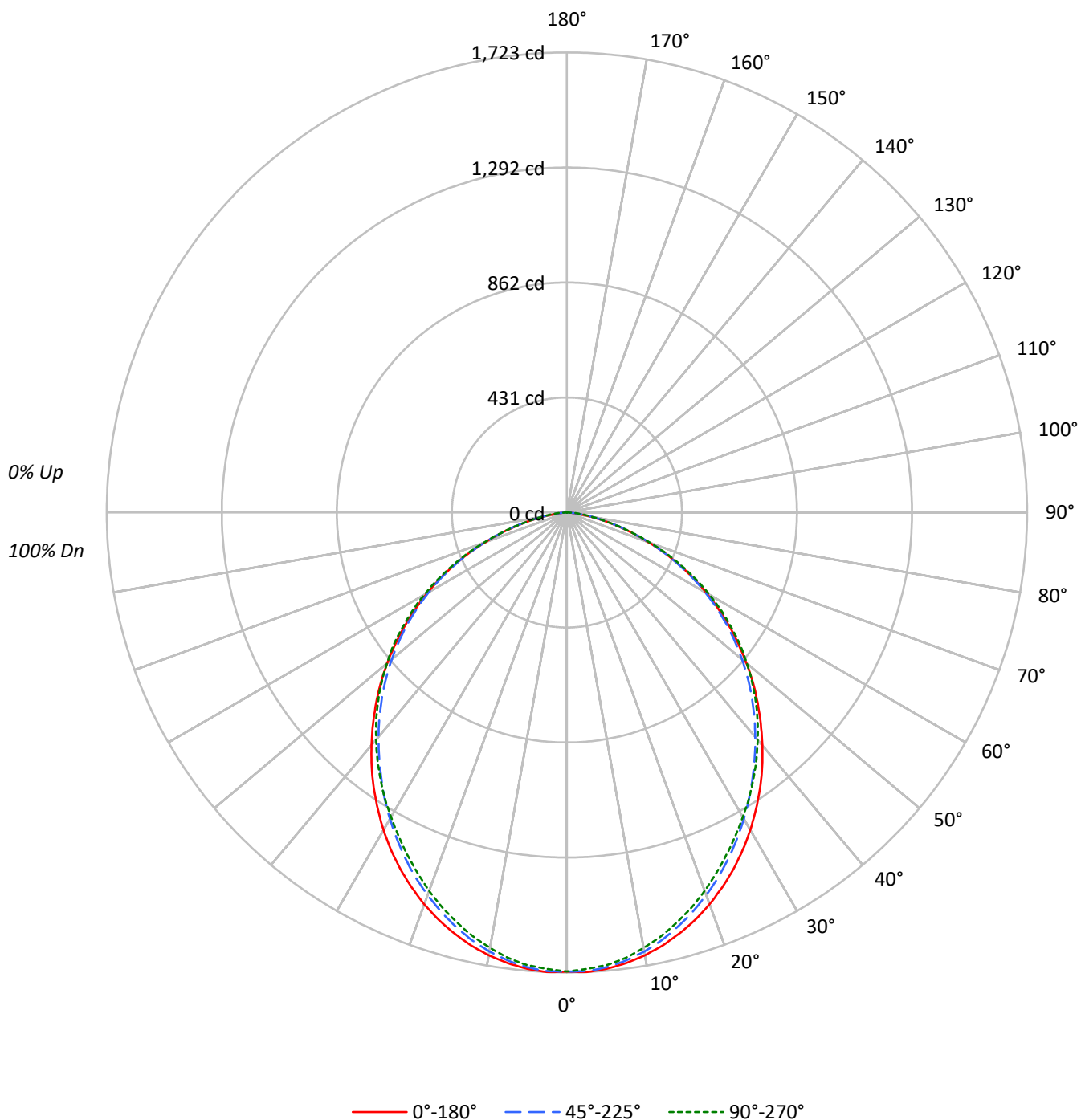
Lumens per Lamp: N/A
Luminaire Lumens: 4178.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 49
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	81	98	90	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4627	4627	4627
5°	4634	4618	4597
10°	4602	4562	4526
15°	4545	4475	4428
20°	4471	4367	4319
25°	4377	4247	4199
30°	4266	4117	4092
35°	4141	3982	3999
40°	3998	3855	3905
45°	3844	3725	3806
50°	3676	3584	3682
55°	3482	3418	3529
60°	3249	3212	3330
65°	2955	2940	3027
70°	2553	2573	2620
75°	2036	2096	2088
80°	1381	1472	1495
85°	713	997	1278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3844 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	3.9
10°-20°	452.5	10.8
20°-30°	661.1	15.8
30°-40°	766.2	18.3
40°-50°	764.3	18.3
50°-60°	658.0	15.7
60°-70°	459.8	11.0
70°-80°	213.8	5.1
80°-90°	40.8	1.0
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°	1275.3	30.5
0°-40°	2041.5	48.9
0°-60°	3463.7	82.9
0°-90°	4178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1719	1719	1719	1719	1719	
5°	1715	1709	1710	1699	1702	163
15°	1632	1620	1606	1589	1590	460
25°	1474	1457	1430	1412	1414	679
35°	1261	1238	1212	1210	1217	788
45°	1010	990	979	990	1000	779
55°	742	726	728	745	752	663
65°	464	456	462	470	475	459
75°	196	193	202	201	201	211
85°	23	26	32	39	41	34
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1719.4	1719.4	1719.4	1719.4	1719.4
2.5°	1722.9	1717.5	1719.4	1711.7	1711.4
5°	1715.4	1709.4	1709.7	1699.4	1701.8
7.5°	1702.2	1695.1	1692.7	1681.1	1683.2
10°	1684.0	1675.1	1669.7	1655.3	1656.3
12.5°	1660.5	1650.4	1641.1	1624.5	1626.1
15°	1631.5	1619.9	1606.2	1588.6	1589.5
17.5°	1599.3	1586.7	1567.6	1548.8	1551.5
20°	1561.3	1547.4	1524.9	1505.3	1508.1
22.5°	1519.4	1503.4	1479.8	1460.4	1461.6
25°	1474.3	1456.6	1430.3	1412.5	1414.2
27.5°	1425.5	1405.8	1378.8	1362.7	1365.7
30°	1373.0	1352.2	1324.9	1312.6	1316.9
32.5°	1317.8	1296.4	1269.7	1262.4	1269.1
35°	1260.7	1237.8	1212.1	1209.9	1217.2
37.5°	1201.1	1178.6	1155.2	1157.7	1165.4
40°	1138.1	1116.8	1097.3	1103.2	1111.5
42.5°	1074.7	1054.1	1038.7	1048.0	1057.0
45°	1010.0	989.6	978.7	990.4	1000.1
47.5°	945.6	925.2	918.4	932.2	940.9
50°	878.0	859.5	856.1	871.2	879.6
52.5°	809.5	792.4	792.9	809.2	819.7
55°	742.1	726.0	728.5	744.9	752.2
57.5°	672.7	659.7	663.8	678.5	686.0
60°	603.7	591.6	596.9	611.2	618.7
62.5°	533.8	523.2	529.8	542.3	547.3
65°	464.1	455.7	461.7	470.3	475.4
67.5°	395.4	387.7	394.8	403.3	405.4
70°	324.5	319.3	327.0	332.6	333.0
72.5°	259.1	254.3	262.2	265.0	264.1
75°	195.8	193.0	201.6	201.1	200.8
77.5°	138.2	138.9	144.1	143.9	143.9
80°	89.1	92.2	95.0	96.8	96.5
82.5°	50.2	53.2	56.8	63.8	66.7
85°	23.1	26.1	32.3	38.8	41.4
87.5°	7.8	10.2	13.6	14.7	13.9
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	16.25	17.83	16.61	18.15	18.46	16.44	18.02	16.80	18.33	18.65
	3H	17.72	19.14	18.09	19.47	19.83	17.92	19.34	18.30	19.67	20.03
	4H	18.14	19.48	18.54	19.83	20.21	18.35	19.68	18.74	20.03	20.41
	6H	18.35	19.59	18.76	19.95	20.35	18.56	19.80	18.98	20.17	20.56
	8H	18.38	19.56	18.81	19.95	20.35	18.61	19.79	19.04	20.18	20.58
	12H	18.38	19.51	18.81	19.89	20.32	18.65	19.77	19.08	20.16	20.59
4H	2H	16.80	18.14	17.20	18.49	18.87	16.96	18.29	17.35	18.64	19.02
	3H	18.45	19.56	18.86	19.96	20.36	18.62	19.74	19.03	20.14	20.54
	4H	18.96	19.96	19.39	20.38	20.81	19.14	20.15	19.58	20.56	21.00
	6H	19.25	20.12	19.70	20.56	21.02	19.45	20.32	19.90	20.76	21.22
	8H	19.29	20.11	19.75	20.55	21.02	19.52	20.33	19.98	20.78	21.24
	12H	19.31	20.03	19.79	20.51	20.98	19.58	20.30	20.06	20.78	21.25
8H	4H	19.15	19.96	19.61	20.41	20.87	19.32	20.13	19.78	20.58	21.04
	6H	19.50	20.17	19.99	20.66	21.13	19.68	20.35	20.18	20.84	21.32
	8H	19.57	20.17	20.08	20.68	21.16	19.79	20.39	20.30	20.90	21.39
	12H	19.60	20.14	20.11	20.63	21.19	19.89	20.42	20.40	20.91	21.48
12H	4H	19.15	19.88	19.63	20.36	20.83	19.32	20.04	19.80	20.52	20.99
	6H	19.50	20.10	20.01	20.61	21.10	19.68	20.28	20.19	20.79	21.28
	8H	19.60	20.14	20.11	20.63	21.19	19.83	20.36	20.34	20.85	21.41