

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: P1498468

Luminaire Tested: MAE-G-2-120-2LO-LO-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498468
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-40-90-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

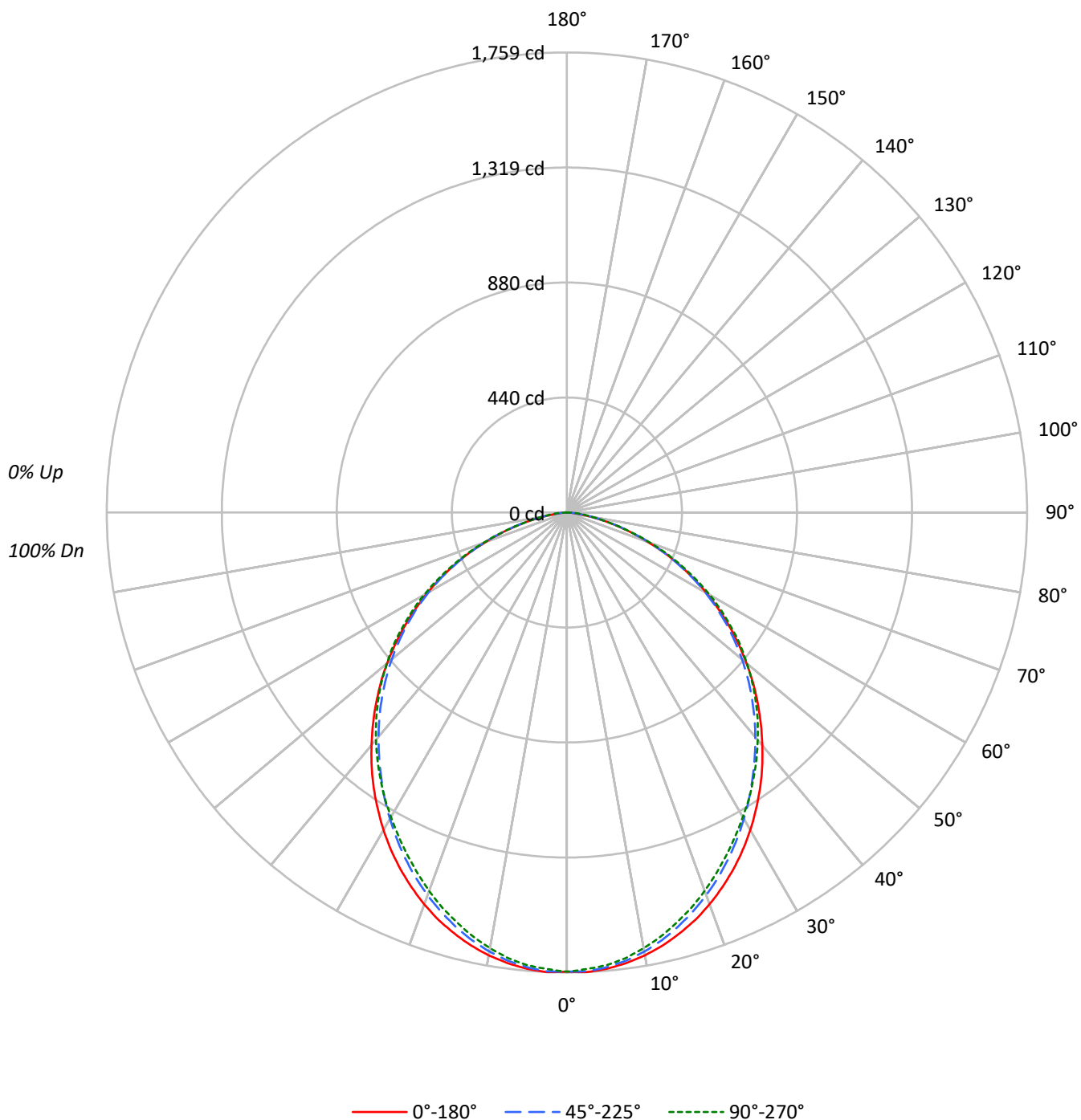
Lumens per Lamp: N/A
Luminaire Lumens: 4266.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4724	4724	4724
5°	4731	4716	4694
10°	4698	4658	4621
15°	4641	4569	4521
20°	4565	4459	4410
25°	4470	4336	4287
30°	4356	4204	4178
35°	4229	4066	4083
40°	4082	3936	3987
45°	3925	3803	3886
50°	3753	3659	3760
55°	3555	3490	3604
60°	3317	3280	3400
65°	3018	3002	3091
70°	2607	2628	2675
75°	2078	2141	2132
80°	1410	1503	1528
85°	726	1016	1309

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3925 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	3.9
10°-20°	462.0	10.8
20°-30°	675.0	15.8
30°-40°	782.3	18.3
40°-50°	780.4	18.3
50°-60°	671.9	15.7
60°-70°	469.4	11.0
70°-80°	218.3	5.1
80°-90°	41.6	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°	1302.1	30.5
0°-40°	2084.5	48.9
0°-60°	3536.7	82.9
0°-90°	4266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1756	1756	1756	1756	1756	
5°	1752	1745	1746	1735	1738	166
15°	1666	1654	1640	1622	1623	470
25°	1505	1487	1460	1442	1444	693
35°	1287	1264	1238	1235	1243	804
45°	1031	1010	999	1011	1021	796
55°	758	741	744	761	768	677
65°	474	465	471	480	485	469
75°	200	197	206	205	205	215
85°	24	27	33	40	42	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1755.6	1755.6	1755.6	1755.6	1755.6
2.5°	1759.2	1753.7	1755.6	1747.7	1747.4
5°	1751.5	1745.3	1745.7	1735.2	1737.6
7.5°	1738.1	1730.8	1728.4	1716.5	1718.7
10°	1719.4	1710.4	1704.8	1690.1	1691.2
12.5°	1695.5	1685.2	1675.7	1658.7	1660.4
15°	1665.8	1654.0	1640.0	1622.0	1622.9
17.5°	1633.0	1620.2	1600.6	1581.4	1584.2
20°	1594.2	1580.0	1557.0	1537.1	1539.9
22.5°	1551.3	1535.1	1511.0	1491.1	1492.4
25°	1505.4	1487.3	1460.5	1442.3	1444.0
27.5°	1455.5	1435.4	1407.9	1391.4	1394.5
30°	1402.0	1380.7	1352.8	1340.2	1344.6
32.5°	1345.5	1323.8	1296.5	1289.0	1295.9
35°	1287.2	1263.8	1237.6	1235.4	1242.9
37.5°	1226.3	1203.4	1179.5	1182.1	1190.0
40°	1162.1	1140.4	1120.4	1126.3	1134.9
42.5°	1097.4	1076.3	1060.5	1070.1	1079.3
45°	1031.3	1010.4	999.3	1011.3	1021.1
47.5°	965.5	944.6	937.8	951.9	960.6
50°	896.5	877.6	874.1	889.5	898.1
52.5°	826.6	809.1	809.5	826.2	836.9
55°	757.7	741.3	743.8	760.6	768.1
57.5°	686.9	673.6	677.8	692.8	700.4
60°	616.4	604.0	609.4	624.1	631.8
62.5°	545.0	534.2	541.0	553.7	558.9
65°	473.9	465.4	471.4	480.2	485.4
67.5°	403.7	395.9	403.0	411.8	413.9
70°	331.4	326.0	334.0	339.7	340.0
72.5°	264.6	259.6	267.7	270.6	269.6
75°	199.9	197.1	205.9	205.3	205.1
77.5°	141.2	141.8	147.0	146.8	146.9
80°	91.0	94.2	97.0	98.9	98.6
82.5°	51.2	54.3	57.9	65.2	68.0
85°	23.5	26.7	32.9	39.5	42.4
87.5°	7.9	10.3	13.8	14.9	14.2
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	16.32	17.91	16.69	18.22	18.53	16.51	18.09	16.87	18.41	18.72
	3H	17.79	19.21	18.17	19.54	19.90	17.99	19.42	18.37	19.74	20.10
	4H	18.22	19.55	18.61	19.90	20.28	18.42	19.76	18.82	20.10	20.48
	6H	18.42	19.66	18.84	20.03	20.42	18.64	19.87	19.05	20.24	20.63
	8H	18.45	19.63	18.88	20.02	20.42	18.69	19.87	19.11	20.26	20.66
	12H	18.45	19.58	18.88	19.96	20.39	18.72	19.85	19.15	20.23	20.66
4H	2H	16.88	18.21	17.28	18.56	18.94	17.03	18.37	17.43	18.71	19.09
	3H	18.52	19.63	18.93	20.03	20.43	18.70	19.81	19.11	20.21	20.61
	4H	19.03	20.03	19.46	20.45	20.89	19.22	20.22	19.65	20.63	21.07
	6H	19.32	20.19	19.78	20.63	21.09	19.52	20.39	19.97	20.83	21.29
	8H	19.37	20.18	19.83	20.62	21.09	19.59	20.41	20.05	20.85	21.32
	12H	19.38	20.11	19.86	20.58	21.05	19.65	20.38	20.13	20.85	21.32
8H	4H	19.22	20.04	19.69	20.48	20.95	19.39	20.20	19.85	20.65	21.11
	6H	19.57	20.24	20.06	20.73	21.21	19.75	20.43	20.25	20.92	21.39
	8H	19.64	20.24	20.15	20.75	21.24	19.86	20.47	20.38	20.97	21.46
	12H	19.68	20.21	20.19	20.70	21.26	19.96	20.49	20.47	20.99	21.55
12H	4H	19.22	19.95	19.71	20.43	20.90	19.39	20.12	19.87	20.59	21.06
	6H	19.57	20.17	20.08	20.68	21.17	19.75	20.35	20.26	20.86	21.35
	8H	19.68	20.21	20.19	20.70	21.26	19.90	20.43	20.41	20.92	21.49