

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: P1498900

Luminaire Tested: MAE-G-4-120-1HI-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498900
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1HI-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

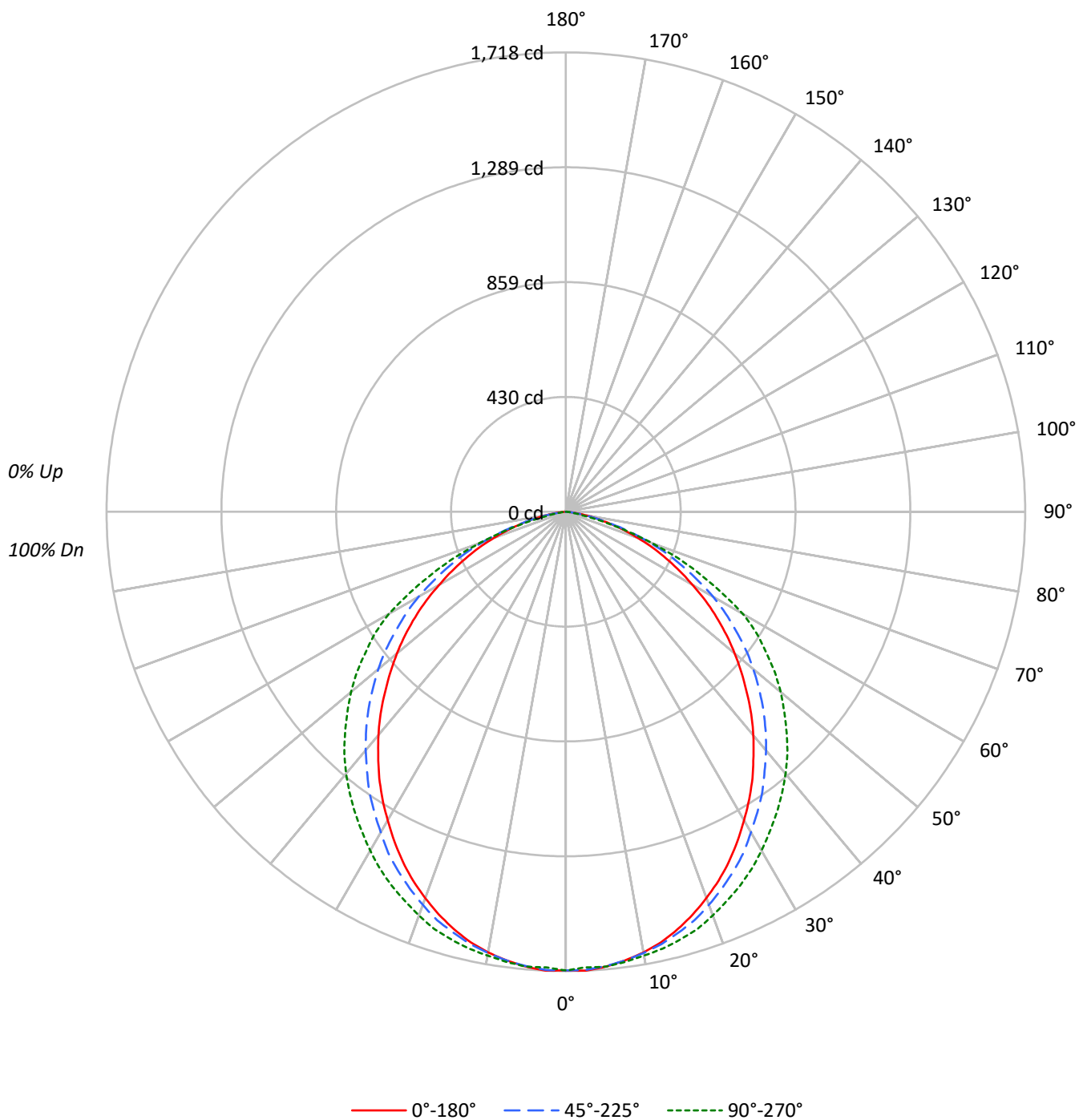
Lumens per Lamp: N/A
Luminaire Lumens: 4318.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.3
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	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	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2308	2308	2308
5°	2306	2303	2306
10°	2286	2289	2303
15°	2252	2269	2307
20°	2201	2240	2300
25°	2143	2202	2290
30°	2070	2151	2274
35°	1998	2104	2258
40°	1916	2046	2245
45°	1822	1986	2221
50°	1725	1917	2195
55°	1615	1824	2142
60°	1474	1713	2059
65°	1320	1532	1768
70°	1126	1291	1349
75°	872	937	757
80°	573	497	267
85°	304	228	153

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2221 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.9	3.8
10°-20°	460.3	10.7
20°-30°	684.4	15.9
30°-40°	804.7	18.6
40°-50°	812.1	18.8
50°-60°	705.2	16.3
60°-70°	480.0	11.1
70°-80°	187.0	4.3
80°-90°	22.4	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°	1306.7	30.3
0°-40°	2111.4	48.9
0°-60°	3628.7	84.0
0°-90°	4318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1708	1705	1705	1705	1708	162
15°	1616	1619	1629	1646	1656	455
25°	1444	1451	1483	1520	1542	664
35°	1217	1231	1281	1340	1375	760
45°	958	982	1044	1125	1167	739
55°	688	711	777	866	913	615
65°	415	434	481	533	555	412
75°	168	178	180	163	146	183
85°	20	20	15	12	10	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.1	1715.1	1715.1	1715.1	1715.1
2.5°	1717.6	1717.6	1715.1	1707.7	1705.3
5°	1707.7	1705.3	1705.3	1705.3	1707.7
7.5°	1692.9	1692.9	1692.9	1695.4	1697.9
10°	1673.2	1673.2	1675.7	1680.6	1685.5
12.5°	1648.5	1651.0	1655.9	1665.8	1673.2
15°	1616.4	1618.9	1628.8	1646.0	1655.9
17.5°	1579.4	1586.8	1601.6	1621.4	1636.2
20°	1537.5	1544.9	1564.6	1589.3	1606.6
22.5°	1493.0	1500.4	1525.1	1554.7	1574.5
25°	1443.7	1451.1	1483.2	1520.2	1542.4
27.5°	1389.4	1399.3	1438.7	1478.2	1505.4
30°	1332.6	1345.0	1384.5	1433.8	1463.4
32.5°	1275.9	1290.7	1332.6	1389.4	1419.0
35°	1216.6	1231.4	1280.8	1340.0	1374.6
37.5°	1152.5	1169.8	1221.6	1293.1	1327.7
40°	1090.8	1108.1	1164.8	1241.3	1278.3
42.5°	1026.6	1046.4	1105.6	1184.6	1226.5
45°	957.5	982.2	1043.9	1125.3	1167.3
47.5°	890.9	913.1	979.7	1063.6	1108.1
50°	824.3	848.9	915.6	1001.9	1048.8
52.5°	757.6	779.8	848.9	935.3	984.7
55°	688.5	710.7	777.4	866.2	913.1
57.5°	619.4	646.6	708.3	794.6	846.5
60°	547.9	572.5	636.7	723.1	765.0
62.5°	481.2	503.4	557.7	639.2	658.9
65°	414.6	434.3	481.2	533.1	555.3
67.5°	352.9	367.7	409.7	444.2	454.1
70°	286.3	301.1	328.2	348.0	343.0
72.5°	227.0	236.9	254.2	251.7	239.4
75°	167.8	177.7	180.2	162.9	145.6
77.5°	118.5	123.4	116.0	91.3	74.0
80°	74.0	76.5	64.2	39.5	34.5
82.5°	42.0	42.0	29.6	24.7	19.7
85°	19.7	19.7	14.8	12.3	9.9
87.5°	7.4	7.4	4.9	4.9	4.9
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	13.51	15.09	13.87	15.40	15.72	15.09	16.67	15.45	16.98	17.30
	3H	14.85	16.26	15.22	16.59	16.95	16.36	17.78	16.74	18.10	18.46
	4H	15.21	16.54	15.61	16.89	17.27	16.55	17.88	16.95	18.23	18.61
	6H	15.38	16.61	15.79	16.97	17.36	16.55	17.78	16.96	18.14	18.54
	8H	15.39	16.56	15.82	16.95	17.35	16.52	17.69	16.95	18.08	18.48
	12H	15.39	16.50	15.82	16.89	17.32	16.50	17.62	16.93	18.00	18.43
4H	2H	14.17	15.50	14.57	15.85	16.23	15.47	16.80	15.86	17.14	17.52
	3H	15.67	16.77	16.08	17.17	17.57	16.90	18.01	17.31	18.40	18.81
	4H	16.11	17.10	16.55	17.52	17.96	17.16	18.15	17.59	18.56	19.00
	6H	16.34	17.20	16.80	17.64	18.10	17.18	18.04	17.64	18.48	18.94
	8H	16.36	17.16	16.83	17.61	18.08	17.16	17.96	17.62	18.40	18.87
	12H	16.37	17.08	16.85	17.56	18.03	17.14	17.85	17.62	18.33	18.80
8H	4H	16.27	17.07	16.73	17.52	17.98	17.24	18.04	17.70	18.49	18.95
	6H	16.53	17.19	17.03	17.68	18.16	17.27	17.93	17.77	18.42	18.90
	8H	16.57	17.16	17.09	17.67	18.16	17.25	17.84	17.76	18.35	18.83
	12H	16.59	17.11	17.10	17.61	18.17	17.23	17.75	17.74	18.24	18.81
12H	4H	16.25	16.97	16.74	17.45	17.92	17.23	17.94	17.71	18.42	18.89
	6H	16.50	17.09	17.02	17.60	18.09	17.25	17.84	17.76	18.35	18.83
	8H	16.57	17.09	17.08	17.58	18.15	17.25	17.76	17.75	18.26	18.82