

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: P1498159

Luminaire Tested: MAE-G-2-120-1LO-HI-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498159
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-2-120-1LO-HI-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

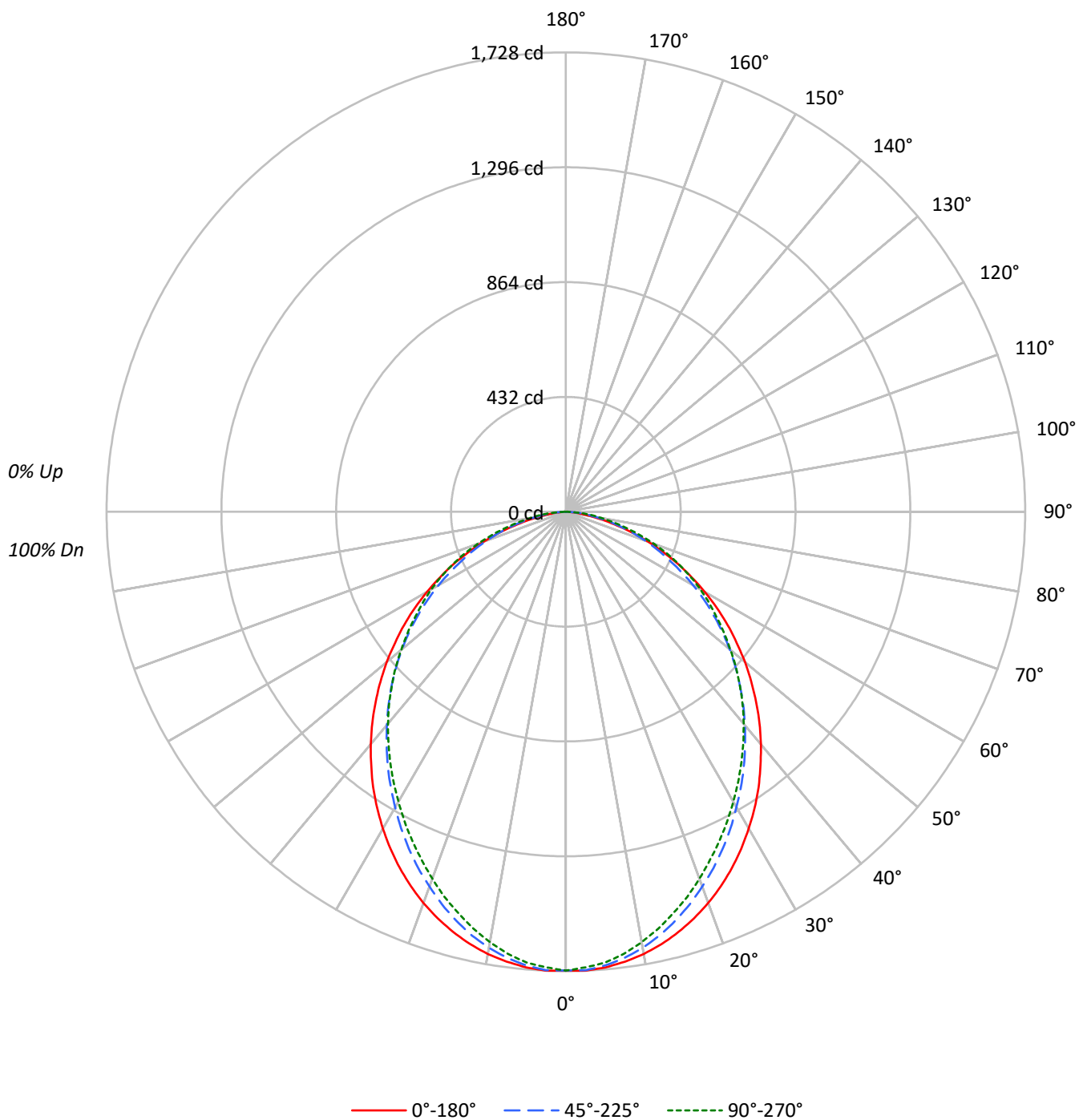
Lumens per Lamp: N/A
Luminaire Lumens: 4081.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 54.7
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	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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	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	39	50	43	38	48	42	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	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	33	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4644	4644	4644
5°	4647	4627	4598
10°	4615	4552	4492
15°	4560	4436	4354
20°	4485	4296	4206
25°	4389	4149	4057
30°	4276	3988	3914
35°	4153	3836	3781
40°	4011	3680	3656
45°	3853	3527	3522
50°	3684	3367	3384
55°	3487	3184	3250
60°	3247	2977	3148
65°	2965	2727	2994
70°	2581	2490	2773
75°	2072	2194	2438
80°	1446	1799	2087
85°	818	1442	1942

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3853 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	4.0
10°-20°	449.0	11.0
20°-30°	648.6	15.9
30°-40°	742.5	18.2
40°-50°	731.3	17.9
50°-60°	623.9	15.3
60°-70°	444.1	10.9
70°-80°	226.4	5.5
80°-90°	53.5	1.3
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°	1259.4	30.9
0°-40°	2001.9	49.1
0°-60°	3357.1	82.3
0°-90°	4081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4081.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1720	1719	1713	1698	1702	163
15°	1637	1625	1592	1562	1563	461
25°	1478	1450	1398	1367	1366	680
35°	1264	1224	1168	1149	1151	790
45°	1012	974	927	922	926	781
55°	743	708	679	684	693	663
65°	466	437	428	457	470	460
75°	199	187	211	230	234	215
85°	26	33	47	58	63	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1725.9	1725.9	1725.9	1725.9	1725.9
2.5°	1727.8	1729.6	1725.9	1711.7	1715.1
5°	1720.3	1719.1	1712.8	1697.9	1702.0
7.5°	1706.8	1703.9	1692.6	1674.4	1676.9
10°	1689.0	1683.2	1665.7	1642.6	1644.0
12.5°	1665.7	1657.3	1632.4	1605.2	1606.2
15°	1636.8	1625.0	1592.4	1562.2	1562.8
17.5°	1603.5	1589.1	1549.1	1516.0	1518.6
20°	1566.0	1546.9	1500.3	1467.6	1468.8
22.5°	1524.2	1500.8	1450.9	1418.0	1417.5
25°	1478.3	1450.2	1397.5	1366.6	1366.4
27.5°	1429.0	1397.7	1342.0	1312.5	1313.7
30°	1376.1	1342.1	1283.6	1258.2	1259.5
32.5°	1321.6	1284.9	1226.5	1204.6	1205.8
35°	1264.2	1224.4	1167.8	1148.7	1151.1
37.5°	1202.8	1164.1	1107.3	1094.3	1096.0
40°	1141.7	1101.7	1047.7	1037.8	1040.8
42.5°	1078.2	1038.9	987.8	980.4	984.3
45°	1012.5	973.7	926.7	922.4	925.6
47.5°	945.9	908.0	866.1	863.6	868.7
50°	879.9	842.8	804.2	804.7	808.3
52.5°	810.0	774.8	742.3	743.9	751.1
55°	743.2	707.5	678.7	683.9	692.8
57.5°	673.6	642.3	616.6	626.8	639.3
60°	603.3	572.8	553.1	571.2	584.9
62.5°	533.9	504.4	489.7	515.5	527.6
65°	465.6	437.2	428.2	457.3	470.2
67.5°	397.1	371.7	372.1	403.6	413.3
70°	328.1	305.0	316.5	345.2	352.4
72.5°	262.6	243.8	263.7	287.7	292.0
75°	199.3	186.9	211.0	230.4	234.5
77.5°	143.0	136.6	161.1	177.3	181.8
80°	93.3	95.3	116.1	130.0	134.7
82.5°	54.7	60.4	77.3	92.4	97.3
85°	26.5	33.3	46.7	58.0	62.9
87.5°	9.0	13.6	19.8	22.1	21.4
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	16.18	17.76	16.54	18.08	18.39	15.98	17.57	16.35	17.88	18.20
	3H	17.65	19.08	18.03	19.41	19.77	17.74	19.17	18.12	19.49	19.86
	4H	18.10	19.44	18.50	19.79	20.16	18.34	19.68	18.74	20.03	20.41
	6H	18.33	19.57	18.74	19.93	20.33	18.75	19.99	19.16	20.35	20.74
	8H	18.37	19.55	18.79	19.94	20.34	18.88	20.06	19.31	20.45	20.85
	12H	18.38	19.51	18.81	19.89	20.32	18.98	20.11	19.41	20.49	20.92
4H	2H	16.66	18.00	17.06	18.35	18.73	16.50	17.84	16.90	18.19	18.57
	3H	18.33	19.45	18.74	19.84	20.24	18.47	19.59	18.88	19.99	20.39
	4H	18.86	19.87	19.29	20.28	20.72	19.20	20.20	19.63	20.62	21.06
	6H	19.18	20.05	19.63	20.50	20.95	19.72	20.60	20.18	21.04	21.50
	8H	19.24	20.06	19.70	20.50	20.97	19.90	20.72	20.36	21.16	21.63
	12H	19.27	20.00	19.75	20.48	20.95	20.04	20.77	20.52	21.25	21.72
8H	4H	19.10	19.92	19.56	20.36	20.83	19.40	20.22	19.86	20.67	21.13
	6H	19.49	20.17	19.99	20.66	21.14	20.03	20.71	20.52	21.20	21.67
	8H	19.59	20.20	20.10	20.71	21.19	20.27	20.88	20.78	21.39	21.88
	12H	19.65	20.19	20.16	20.68	21.24	20.49	21.03	21.00	21.52	22.08
12H	4H	19.12	19.86	19.60	20.33	20.80	19.41	20.14	19.89	20.62	21.09
	6H	19.53	20.14	20.04	20.65	21.13	20.04	20.65	20.55	21.16	21.65
	8H	19.67	20.21	20.18	20.70	21.26	20.34	20.87	20.84	21.37	21.93