

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: P1498897

Luminaire Tested: MAE-G-4-120-1HI-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498897
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-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

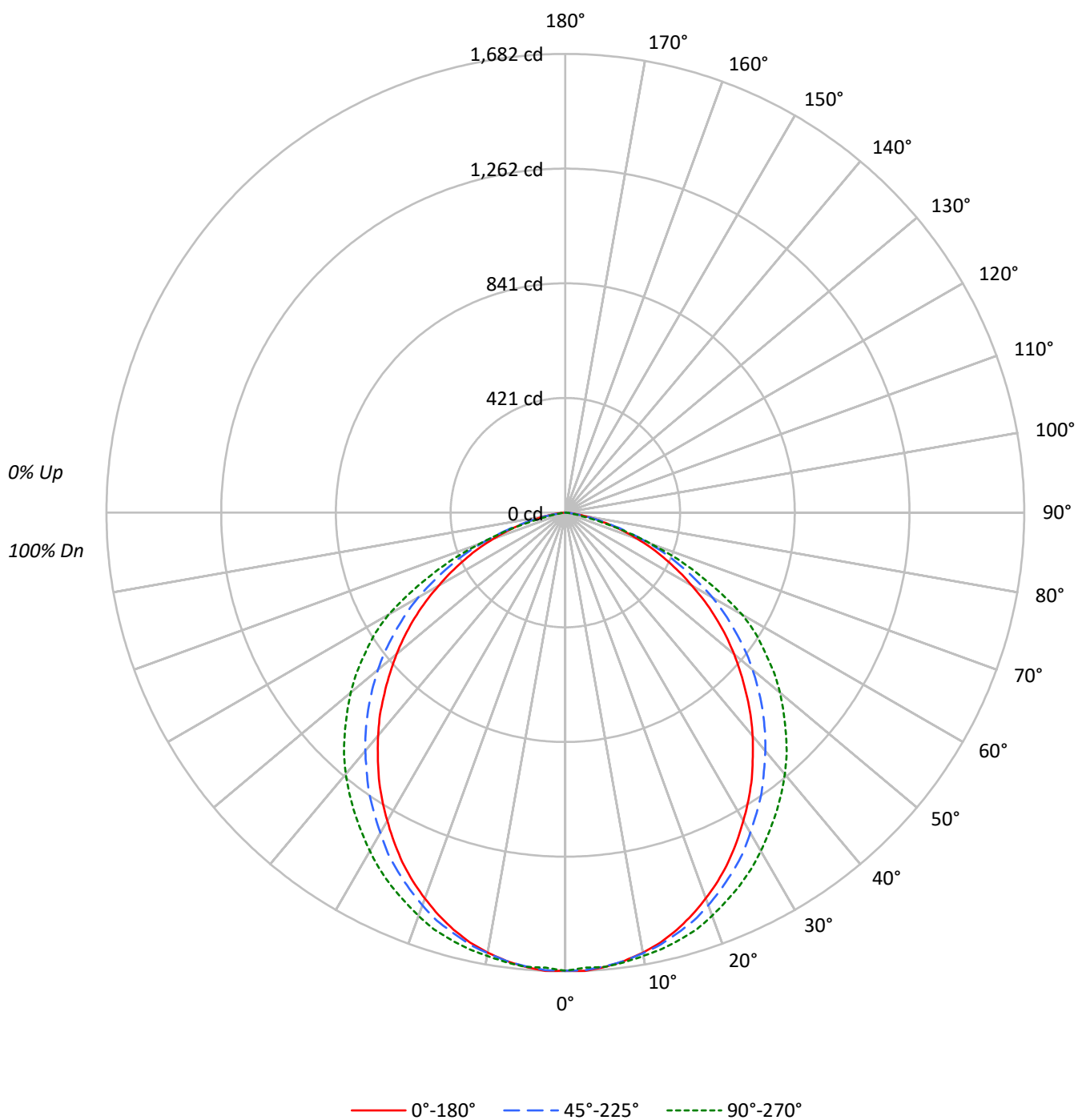
Lumens per Lamp: N/A
Luminaire Lumens: 4228.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1498897

CATALOG NUMBER: MAE-G-4-120-1HI-35-VRDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1498897

CATALOG NUMBER: MAE-G-4-120-1HI-35-VRDCPH

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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2260	2260	2260
5°	2258	2255	2258
10°	2238	2242	2255
15°	2205	2221	2259
20°	2155	2194	2252
25°	2099	2156	2242
30°	2027	2106	2226
35°	1957	2060	2211
40°	1876	2003	2199
45°	1784	1945	2175
50°	1689	1877	2150
55°	1582	1786	2097
60°	1443	1678	2016
65°	1293	1500	1731
70°	1103	1264	1321
75°	854	917	741
80°	562	487	262
85°	298	224	150

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2175 cd/sqm

TEST NUMBER: P1498897

CATALOG NUMBER: MAE-G-4-120-1HI-35-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.8
10°-20°	450.7	10.7
20°-30°	670.2	15.9
30°-40°	787.9	18.6
40°-50°	795.2	18.8
50°-60°	690.5	16.3
60°-70°	469.9	11.1
70°-80°	183.1	4.3
80°-90°	21.9	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°	1279.4	30.3
0°-40°	2067.3	48.9
0°-60°	3553.1	84.0
0°-90°	4228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4228.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1679	1679	1679	1679	1679	
5°	1672	1670	1670	1670	1672	159
15°	1583	1585	1595	1612	1621	446
25°	1414	1421	1452	1488	1510	650
35°	1191	1206	1254	1312	1346	744
45°	938	962	1022	1102	1143	724
55°	674	696	761	848	894	602
65°	406	425	471	522	544	403
75°	164	174	176	160	143	179
85°	19	19	14	12	10	28
90°	0	0	0	0	0	

TEST NUMBER: P1498897

CATALOG NUMBER: MAE-G-4-120-1HI-35-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1679.4	1679.4	1679.4	1679.4	1679.4
2.5°	1681.8	1681.8	1679.4	1672.1	1669.7
5°	1672.1	1669.7	1669.7	1669.7	1672.1
7.5°	1657.6	1657.6	1657.6	1660.1	1662.5
10°	1638.3	1638.3	1640.7	1645.6	1650.4
12.5°	1614.2	1616.6	1621.4	1631.1	1638.3
15°	1582.7	1585.2	1594.8	1611.7	1621.4
17.5°	1546.5	1553.7	1568.2	1587.6	1602.1
20°	1505.4	1512.7	1532.0	1556.2	1573.1
22.5°	1461.9	1469.2	1493.3	1522.3	1541.7
25°	1413.6	1420.8	1452.3	1488.5	1510.2
27.5°	1360.4	1370.1	1408.8	1447.4	1474.0
30°	1304.9	1316.9	1355.6	1403.9	1432.9
32.5°	1249.3	1263.8	1304.9	1360.4	1389.4
35°	1191.3	1205.8	1254.1	1312.1	1345.9
37.5°	1128.5	1145.4	1196.1	1266.2	1300.0
40°	1068.0	1085.0	1140.5	1215.4	1251.7
42.5°	1005.2	1024.6	1082.5	1159.9	1200.9
45°	937.6	961.7	1022.1	1101.9	1143.0
47.5°	872.3	894.1	959.3	1041.5	1085.0
50°	807.1	831.2	896.5	981.1	1027.0
52.5°	741.8	763.6	831.2	915.8	964.1
55°	674.2	695.9	761.2	848.2	894.1
57.5°	606.5	633.1	693.5	778.1	828.8
60°	536.4	560.6	623.4	708.0	749.1
62.5°	471.2	492.9	546.1	625.8	645.2
65°	406.0	425.3	471.2	521.9	543.7
67.5°	345.5	360.0	401.1	435.0	444.6
70°	280.3	294.8	321.4	340.7	335.9
72.5°	222.3	232.0	248.9	246.5	234.4
75°	164.3	174.0	176.4	159.5	142.6
77.5°	116.0	120.8	113.6	89.4	72.5
80°	72.5	74.9	62.8	38.7	33.8
82.5°	41.1	41.1	29.0	24.2	19.3
85°	19.3	19.3	14.5	12.1	9.7
87.5°	7.2	7.2	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1498897

CATALOG NUMBER: MAE-G-4-120-1HI-35-VRDCPH

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	13.44	15.02	13.80	15.33	15.64	15.02	16.60	15.38	16.91	17.22
	3H	14.77	16.19	15.15	16.52	16.88	16.28	17.70	16.66	18.03	18.39
	4H	15.14	16.47	15.54	16.82	17.19	16.48	17.81	16.88	18.16	18.54
	6H	15.30	16.53	15.72	16.90	17.29	16.48	17.71	16.89	18.07	18.46
	8H	15.32	16.49	15.74	16.88	17.28	16.45	17.62	16.88	18.01	18.41
	12H	15.31	16.43	15.74	16.81	17.24	16.43	17.55	16.86	17.93	18.36
4H	2H	14.10	15.43	14.50	15.78	16.16	15.39	16.72	15.79	17.07	17.45
	3H	15.60	16.70	16.01	17.10	17.50	16.83	17.93	17.24	18.33	18.73
	4H	16.04	17.03	16.47	17.44	17.88	17.08	18.07	17.52	18.49	18.93
	6H	16.27	17.12	16.72	17.57	18.03	17.11	17.97	17.57	18.41	18.87
	8H	16.29	17.09	16.75	17.54	18.00	17.08	17.88	17.55	18.33	18.80
	12H	16.29	17.01	16.78	17.49	17.96	17.06	17.78	17.54	18.26	18.73
8H	4H	16.20	17.00	16.66	17.44	17.91	17.17	17.97	17.63	18.41	18.88
	6H	16.46	17.12	16.95	17.61	18.08	17.20	17.86	17.70	18.35	18.83
	8H	16.50	17.09	17.01	17.60	18.09	17.18	17.76	17.69	18.27	18.76
	12H	16.52	17.04	17.03	17.53	18.10	17.16	17.68	17.67	18.17	18.73
12H	4H	16.18	16.90	16.66	17.37	17.84	17.15	17.87	17.64	18.35	18.82
	6H	16.43	17.02	16.94	17.53	18.02	17.17	17.76	17.69	18.27	18.76
	8H	16.50	17.02	17.01	17.51	18.07	17.17	17.69	17.68	18.18	18.75