

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: P1498297

Luminaire Tested: MAE-G-2-120-1STD-STD-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498297
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-2-120-1STD-STD-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

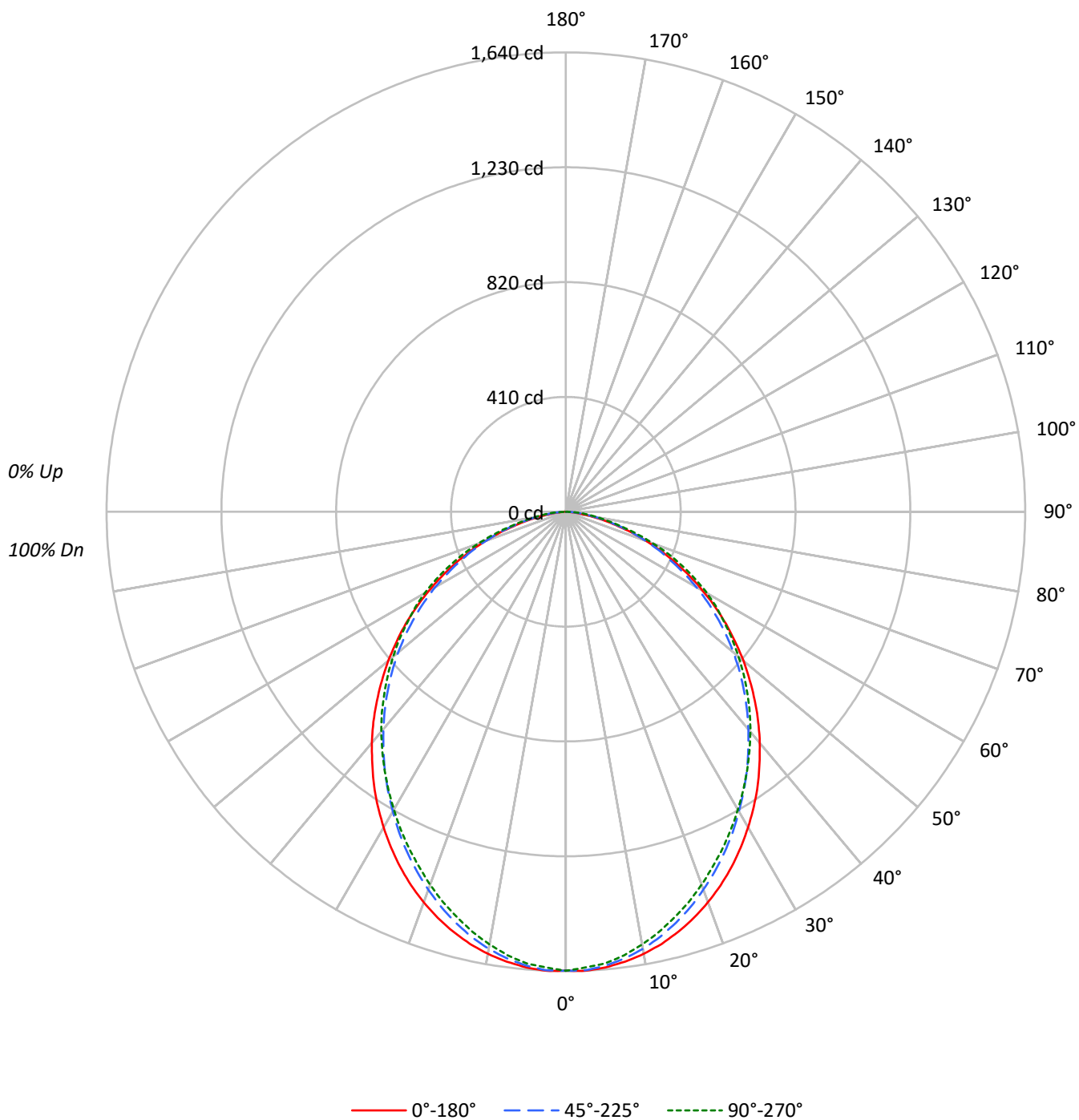
Lumens per Lamp: N/A
Luminaire Lumens: 3914.0 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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: P1498297

CATALOG NUMBER: MAE-G-2-120-1STD-STD-35-VRDCPH

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	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	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	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	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4409	4409	4409
5°	4411	4394	4371
10°	4379	4329	4286
15°	4325	4231	4176
20°	4249	4111	4057
25°	4155	3982	3935
30°	4043	3838	3815
35°	3922	3702	3705
40°	3784	3560	3601
45°	3630	3419	3487
50°	3465	3270	3369
55°	3274	3096	3245
60°	3040	2897	3139
65°	2768	2642	2927
70°	2403	2380	2623
75°	1919	2036	2177
80°	1330	1587	1746
85°	744	1223	1596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3630 cd/sqm

TEST NUMBER: P1498297

CATALOG NUMBER: MAE-G-2-120-1STD-STD-35-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	3.9
10°-20°	428.4	10.9
20°-30°	621.8	15.9
30°-40°	715.0	18.3
40°-50°	707.2	18.1
50°-60°	605.2	15.5
60°-70°	427.4	10.9
70°-80°	209.1	5.3
80°-90°	46.1	1.2
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°	1203.9	30.8
0°-40°	1918.9	49.0
0°-60°	3231.4	82.6
0°-90°	3914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1633	1632	1626	1615	1618	155
15°	1552	1543	1519	1497	1499	437
25°	1399	1378	1341	1322	1325	644
35°	1194	1165	1127	1121	1128	746
45°	954	926	898	907	916	736
55°	698	673	660	678	692	623
65°	435	415	415	446	460	430
75°	185	176	196	209	209	199
85°	24	30	40	48	52	34
90°	0	0	0	0	0	

TEST NUMBER: P1498297

CATALOG NUMBER: MAE-G-2-120-1STD-STD-35-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1638.4	1638.4	1638.4	1638.4	1638.4
2.5°	1640.3	1641.7	1638.4	1626.0	1628.3
5°	1632.8	1631.5	1626.5	1614.6	1618.2
7.5°	1619.8	1617.5	1608.5	1594.2	1596.7
10°	1602.6	1597.9	1584.4	1566.7	1568.6
12.5°	1580.2	1573.9	1554.8	1534.5	1536.5
15°	1552.3	1543.2	1518.7	1497.3	1499.1
17.5°	1520.1	1509.6	1480.0	1456.6	1460.9
20°	1483.8	1469.6	1435.4	1413.1	1416.7
22.5°	1443.6	1426.1	1390.0	1368.3	1370.9
25°	1399.4	1378.1	1341.0	1322.0	1325.2
27.5°	1351.8	1328.4	1289.9	1272.4	1277.5
30°	1301.1	1275.8	1235.1	1222.3	1227.9
32.5°	1248.9	1221.9	1181.7	1172.7	1178.2
35°	1194.0	1164.6	1126.8	1120.6	1127.8
37.5°	1135.4	1107.0	1069.6	1070.1	1076.6
40°	1077.2	1047.9	1013.4	1017.1	1025.2
42.5°	1016.7	988.3	956.6	962.7	972.1
45°	953.8	926.5	898.5	907.3	916.3
47.5°	890.5	863.5	840.3	851.0	861.8
50°	827.7	801.8	781.1	794.7	804.7
52.5°	761.7	737.0	721.6	736.0	749.2
55°	697.9	672.8	660.0	677.6	691.7
57.5°	631.8	611.0	599.7	621.1	638.9
60°	564.9	544.3	538.3	565.9	583.2
62.5°	499.3	479.1	475.7	508.7	521.4
65°	434.7	415.0	414.9	446.0	459.7
67.5°	370.6	352.6	359.3	389.6	399.0
70°	305.4	289.3	302.5	328.5	333.4
72.5°	244.1	230.6	249.2	267.9	269.4
75°	184.6	176.1	195.8	208.7	209.4
77.5°	132.1	127.8	146.3	155.4	156.5
80°	85.8	87.6	102.4	109.7	112.7
82.5°	50.1	54.6	66.2	77.5	80.6
85°	24.1	29.6	39.6	48.1	51.7
87.5°	8.3	12.0	16.5	18.3	17.8
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	15.96	17.54	16.32	17.86	18.17	16.08	17.66	16.44	17.97	18.29
	3H	17.41	18.84	17.79	19.16	19.52	17.74	19.16	18.11	19.49	19.85
	4H	17.84	19.18	18.24	19.53	19.91	18.25	19.59	18.65	19.94	20.32
	6H	18.06	19.30	18.48	19.67	20.06	18.56	19.80	18.97	20.17	20.56
	8H	18.10	19.28	18.52	19.67	20.07	18.66	19.84	19.08	20.23	20.63
	12H	18.10	19.23	18.53	19.62	20.05	18.72	19.85	19.15	20.24	20.66
4H	2H	16.47	17.81	16.87	18.16	18.53	16.57	17.90	16.96	18.25	18.63
	3H	18.11	19.22	18.52	19.62	20.02	18.43	19.55	18.84	19.94	20.35
	4H	18.62	19.63	19.06	20.04	20.48	19.06	20.07	19.49	20.48	20.92
	6H	18.93	19.80	19.38	20.24	20.70	19.48	20.35	19.93	20.79	21.25
	8H	18.98	19.80	19.45	20.24	20.71	19.61	20.42	20.07	20.87	21.33
	12H	19.01	19.74	19.49	20.22	20.69	19.71	20.44	20.19	20.92	21.39
8H	4H	18.85	19.67	19.31	20.11	20.58	19.25	20.06	19.71	20.51	20.97
	6H	19.22	19.90	19.72	20.39	20.86	19.75	20.42	20.24	20.91	21.39
	8H	19.31	19.92	19.82	20.43	20.91	19.93	20.54	20.44	21.05	21.53
	12H	19.37	19.90	19.87	20.39	20.95	20.10	20.63	20.60	21.12	21.69
12H	4H	18.86	19.60	19.35	20.07	20.54	19.25	19.98	19.73	20.46	20.93
	6H	19.24	19.85	19.76	20.36	20.85	19.75	20.36	20.26	20.87	21.35
	8H	19.38	19.91	19.88	20.40	20.96	19.98	20.52	20.49	21.01	21.57