

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: P1498228

Luminaire Tested: MAE-G-2-120-1STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498228
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-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

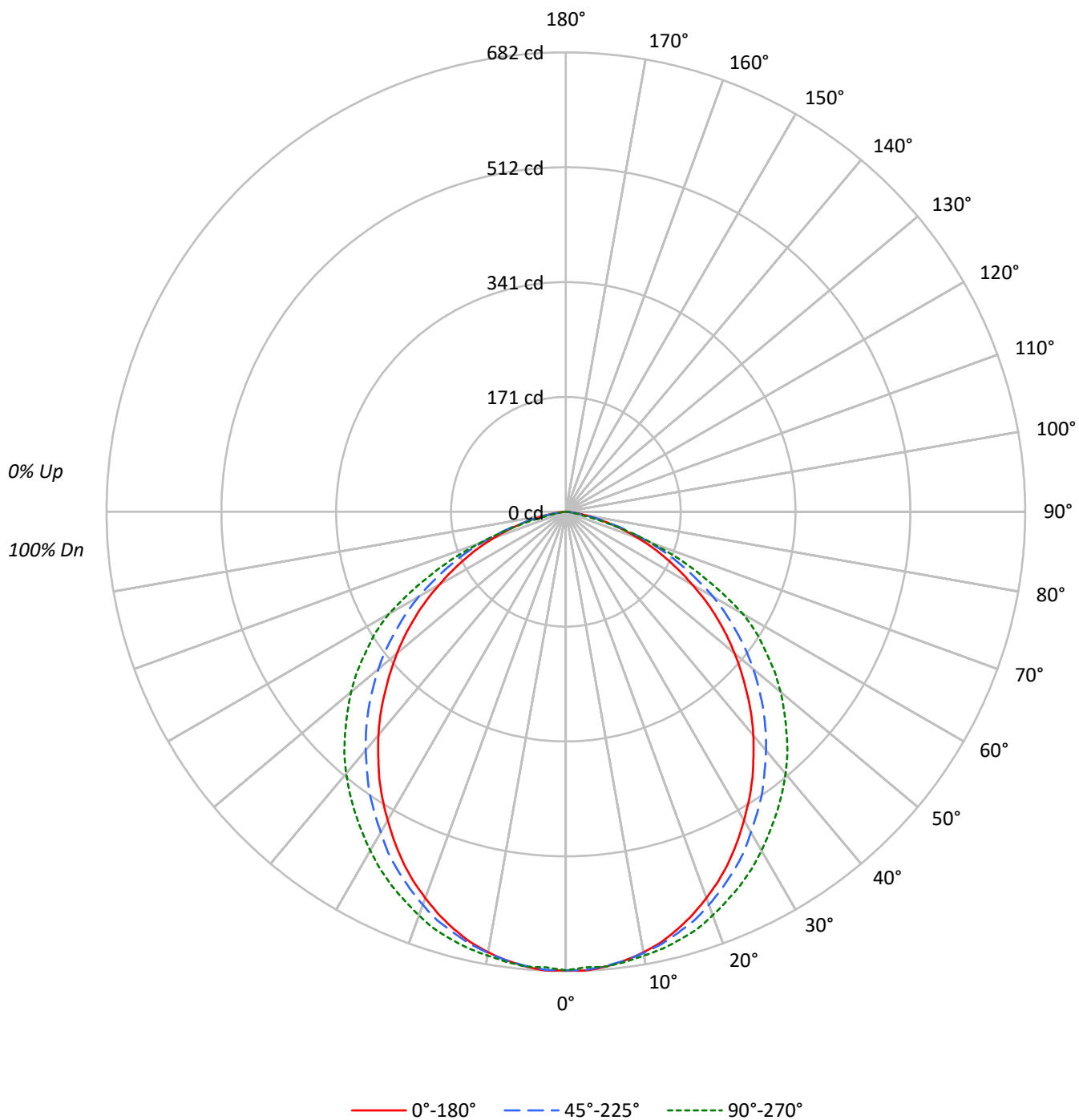
Lumens per Lamp: N/A
Luminaire Lumens: 1714.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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
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°	1832	1832	1832
5°	1831	1828	1831
10°	1815	1817	1828
15°	1787	1801	1831
20°	1748	1779	1826
25°	1702	1748	1818
30°	1644	1707	1805
35°	1586	1670	1792
40°	1521	1624	1782
45°	1447	1577	1763
50°	1370	1521	1743
55°	1282	1448	1700
60°	1171	1360	1635
65°	1048	1216	1403
70°	894	1025	1072
75°	692	743	601
80°	456	395	212
85°	241	182	120

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1763 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	3.8
10°-20°	182.7	10.7
20°-30°	271.7	15.9
30°-40°	319.4	18.6
40°-50°	322.4	18.8
50°-60°	279.9	16.3
60°-70°	190.5	11.1
70°-80°	74.2	4.3
80°-90°	8.9	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°	518.7	30.3
0°-40°	838.1	48.9
0°-60°	1440.4	84.0
0°-90°	1714.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1714.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	678	677	677	677	678	64
15°	642	643	646	653	657	181
25°	573	576	589	603	612	264
35°	483	489	508	532	546	302
45°	380	390	414	447	463	293
55°	273	282	309	344	362	244
65°	165	172	191	212	220	163
75°	67	70	72	65	58	72
85°	8	8	6	5	4	11
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.8	680.8	680.8	680.8	680.8
2.5°	681.8	681.8	680.8	677.9	676.9
5°	677.9	676.9	676.9	676.9	677.9
7.5°	672.0	672.0	672.0	673.0	674.0
10°	664.2	664.2	665.1	667.1	669.1
12.5°	654.4	655.3	657.3	661.2	664.2
15°	641.6	642.6	646.5	653.4	657.3
17.5°	626.9	629.9	635.8	643.6	649.5
20°	610.3	613.2	621.1	630.9	637.7
22.5°	592.7	595.6	605.4	617.1	625.0
25°	573.1	576.0	588.7	603.4	612.2
27.5°	551.5	555.4	571.1	586.8	597.5
30°	529.0	533.9	549.5	569.1	580.9
32.5°	506.4	512.3	529.0	551.5	563.3
35°	482.9	488.8	508.4	531.9	545.6
37.5°	457.5	464.3	484.9	513.3	527.0
40°	433.0	439.8	462.4	492.7	507.4
42.5°	407.5	415.3	438.9	470.2	486.9
45°	380.1	389.9	414.4	446.7	463.3
47.5°	353.6	362.4	388.9	422.2	439.8
50°	327.2	337.0	363.4	397.7	416.3
52.5°	300.7	309.5	337.0	371.3	390.9
55°	273.3	282.1	308.6	343.8	362.4
57.5°	245.9	256.7	281.1	315.4	336.0
60°	217.5	227.3	252.7	287.0	303.7
62.5°	191.0	199.8	221.4	253.7	261.6
65°	164.6	172.4	191.0	211.6	220.4
67.5°	140.1	146.0	162.6	176.3	180.2
70°	113.6	119.5	130.3	138.1	136.2
72.5°	90.1	94.0	100.9	99.9	95.0
75°	66.6	70.5	71.5	64.7	57.8
77.5°	47.0	49.0	46.0	36.2	29.4
80°	29.4	30.4	25.5	15.7	13.7
82.5°	16.7	16.7	11.8	9.8	7.8
85°	7.8	7.8	5.9	4.9	3.9
87.5°	2.9	2.9	2.0	2.0	2.0
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	12.71	14.29	13.07	14.60	14.92	14.29	15.87	14.65	16.18	16.49
	3H	14.04	15.46	14.42	15.79	16.15	15.56	16.97	15.93	17.30	17.66
	4H	14.41	15.74	14.81	16.09	16.47	15.75	17.08	16.15	17.43	17.81
	6H	14.58	15.80	14.99	16.17	16.56	15.75	16.98	16.16	17.34	17.73
	8H	14.59	15.76	15.02	16.15	16.55	15.72	16.89	16.15	17.28	17.68
	12H	14.58	15.70	15.01	16.08	16.51	15.70	16.82	16.13	17.20	17.63
4H	2H	13.37	14.70	13.77	15.05	15.43	14.66	15.99	15.06	16.34	16.72
	3H	14.87	15.97	15.28	16.37	16.77	16.10	17.20	16.51	17.60	18.00
	4H	15.31	16.30	15.74	16.72	17.15	16.35	17.34	16.79	17.76	18.20
	6H	15.54	16.40	15.99	16.84	17.30	16.38	17.24	16.84	17.68	18.14
	8H	15.56	16.36	16.02	16.81	17.27	16.35	17.16	16.82	17.60	18.07
	12H	15.57	16.28	16.05	16.76	17.23	16.33	17.05	16.81	17.53	18.00
8H	4H	15.47	16.27	15.93	16.71	17.18	16.44	17.24	16.90	17.68	18.15
	6H	15.73	16.39	16.23	16.88	17.36	16.47	17.13	16.97	17.62	18.10
	8H	15.77	16.36	16.28	16.87	17.36	16.45	17.04	16.96	17.54	18.03
	12H	15.79	16.31	16.30	16.80	17.37	16.43	16.95	16.94	17.44	18.01
12H	4H	15.45	16.17	15.93	16.64	17.11	16.42	17.14	16.91	17.62	18.09
	6H	15.70	16.29	16.21	16.80	17.29	16.45	17.04	16.96	17.54	18.03
	8H	15.77	16.29	16.28	16.78	17.34	16.44	16.96	16.95	17.45	18.02