

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: P1498216

Luminaire Tested: MAE-G-2-120-1STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498216
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-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

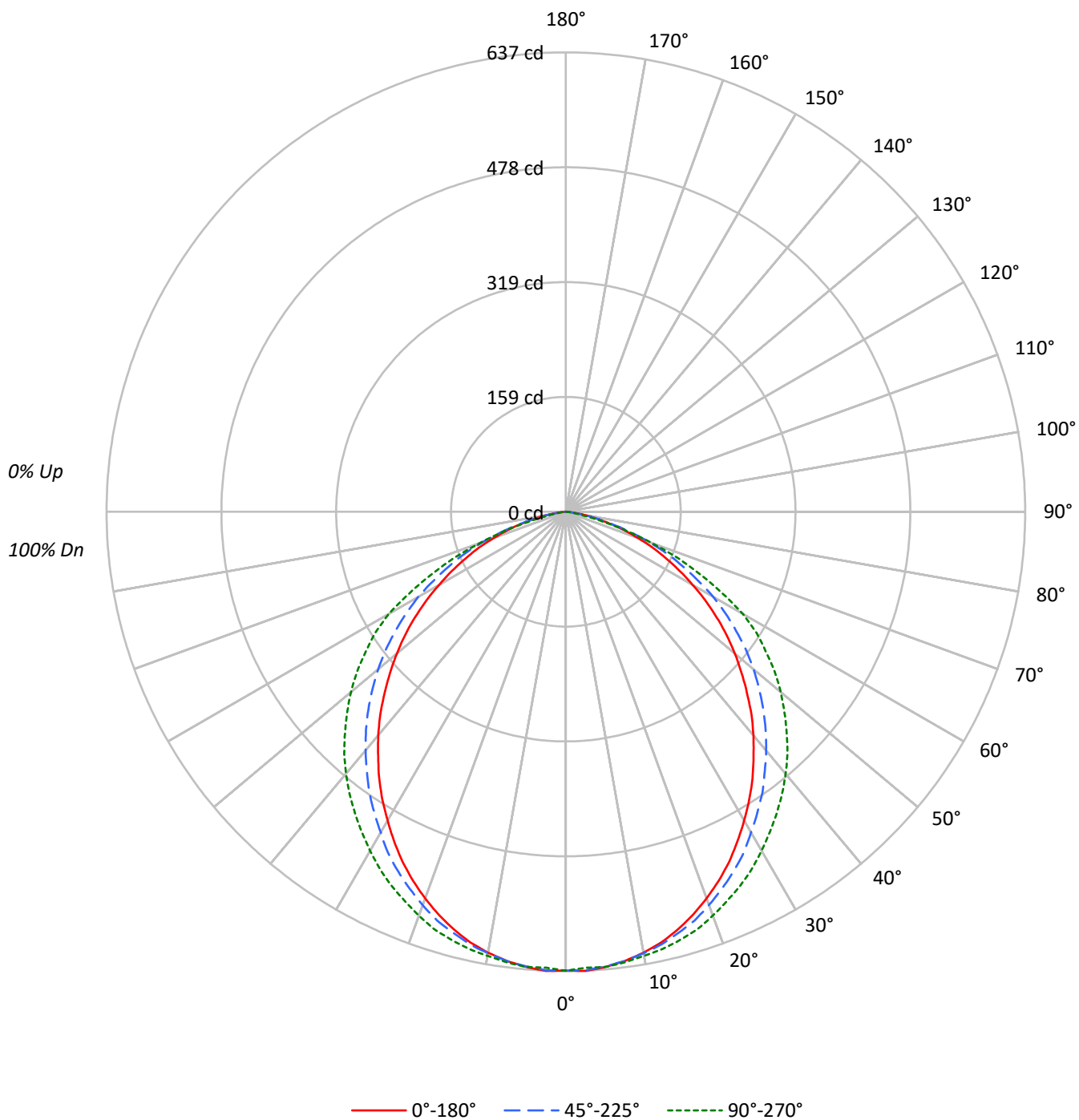
Lumens per Lamp: N/A
Luminaire Lumens: 1602.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	1712	1712	1712
5°	1712	1709	1712
10°	1696	1699	1709
15°	1671	1684	1712
20°	1633	1662	1707
25°	1590	1634	1699
30°	1536	1596	1687
35°	1483	1561	1675
40°	1422	1518	1666
45°	1352	1474	1648
50°	1280	1422	1629
55°	1198	1353	1590
60°	1094	1271	1527
65°	979	1137	1312
70°	836	958	1002
75°	648	695	561
80°	426	369	198
85°	225	170	114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1648 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.1	3.8
10°-20°	170.8	10.7
20°-30°	253.9	15.9
30°-40°	298.6	18.6
40°-50°	301.3	18.8
50°-60°	261.6	16.3
60°-70°	178.1	11.1
70°-80°	69.4	4.3
80°-90°	8.3	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°	484.8	30.3
0°-40°	783.3	48.9
0°-60°	1346.3	84.0
0°-90°	1602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	636	636	636	636	636	
5°	634	633	633	633	634	60
15°	600	601	604	611	614	169
25°	536	538	550	564	572	246
35°	451	457	475	497	510	282
45°	355	364	387	418	433	274
55°	255	264	288	321	339	228
65°	154	161	178	198	206	153
75°	62	66	67	60	54	68
85°	7	7	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°	636.3	636.3	636.3	636.3	636.3
2.5°	637.2	637.2	636.3	633.6	632.7
5°	633.6	632.7	632.7	632.7	633.6
7.5°	628.1	628.1	628.1	629.0	629.9
10°	620.8	620.8	621.7	623.5	625.3
12.5°	611.6	612.5	614.4	618.0	620.8
15°	599.7	600.6	604.3	610.7	614.4
17.5°	586.0	588.7	594.2	601.5	607.0
20°	570.4	573.2	580.5	589.6	596.0
22.5°	553.9	556.7	565.8	576.8	584.1
25°	535.6	538.4	550.3	564.0	572.2
27.5°	515.5	519.1	533.8	548.4	558.5
30°	494.4	499.0	513.6	532.0	542.9
32.5°	473.4	478.8	494.4	515.5	526.5
35°	451.4	456.9	475.2	497.2	510.0
37.5°	427.6	434.0	453.2	479.8	492.6
40°	404.7	411.1	432.2	460.5	474.3
42.5°	380.9	388.2	410.2	439.5	455.0
45°	355.2	364.4	387.3	417.5	433.1
47.5°	330.5	338.8	363.5	394.6	411.1
50°	305.8	315.0	339.7	371.7	389.1
52.5°	281.1	289.3	315.0	347.0	365.3
55°	255.4	263.7	288.4	321.4	338.8
57.5°	229.8	239.9	262.8	294.8	314.0
60°	203.3	212.4	236.2	268.3	283.8
62.5°	178.5	186.8	206.9	237.1	244.5
65°	153.8	161.1	178.5	197.8	206.0
67.5°	130.9	136.4	152.0	164.8	168.5
70°	106.2	111.7	121.8	129.1	127.3
72.5°	84.2	87.9	94.3	93.4	88.8
75°	62.3	65.9	66.8	60.4	54.0
77.5°	43.9	45.8	43.0	33.9	27.5
80°	27.5	28.4	23.8	14.6	12.8
82.5°	15.6	15.6	11.0	9.2	7.3
85°	7.3	7.3	5.5	4.6	3.7
87.5°	2.7	2.7	1.8	1.8	1.8
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	12.47	14.05	12.84	14.37	14.68	14.05	15.63	14.42	15.94	16.26
	3H	13.81	15.23	14.19	15.55	15.91	15.32	16.74	15.70	17.07	17.43
	4H	14.18	15.51	14.58	15.85	16.23	15.52	16.85	15.92	17.19	17.57
	6H	14.34	15.57	14.75	15.93	16.33	15.51	16.74	15.93	17.11	17.50
	8H	14.36	15.52	14.78	15.91	16.31	15.49	16.66	15.91	17.05	17.45
	12H	14.35	15.47	14.78	15.85	16.28	15.46	16.58	15.89	16.96	17.39
4H	2H	13.14	14.47	13.54	14.82	15.19	14.43	15.76	14.83	16.11	16.48
	3H	14.63	15.74	15.04	16.14	16.54	15.87	16.97	16.28	17.37	17.77
	4H	15.08	16.07	15.51	16.48	16.92	16.12	17.11	16.55	17.52	17.96
	6H	15.30	16.16	15.76	16.60	17.06	16.15	17.01	16.60	17.45	17.91
	8H	15.33	16.13	15.79	16.57	17.04	16.12	16.92	16.58	17.36	17.83
	12H	15.33	16.05	15.81	16.52	16.99	16.10	16.81	16.58	17.29	17.76
8H	4H	15.23	16.04	15.70	16.48	16.95	16.20	17.00	16.67	17.45	17.91
	6H	15.49	16.15	15.99	16.64	17.12	16.24	16.90	16.73	17.39	17.86
	8H	15.54	16.13	16.05	16.63	17.12	16.21	16.80	16.72	17.31	17.80
	12H	15.56	16.08	16.07	16.57	17.13	16.20	16.71	16.71	17.21	17.77
12H	4H	15.22	15.93	15.70	16.41	16.88	16.19	16.90	16.67	17.38	17.85
	6H	15.47	16.06	15.98	16.57	17.05	16.21	16.80	16.72	17.31	17.80
	8H	15.53	16.05	16.04	16.55	17.11	16.21	16.73	16.72	17.22	17.78