

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: P1499419

Luminaire Tested: MAE-G-4-120-2STD-LO-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499419
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-LO-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

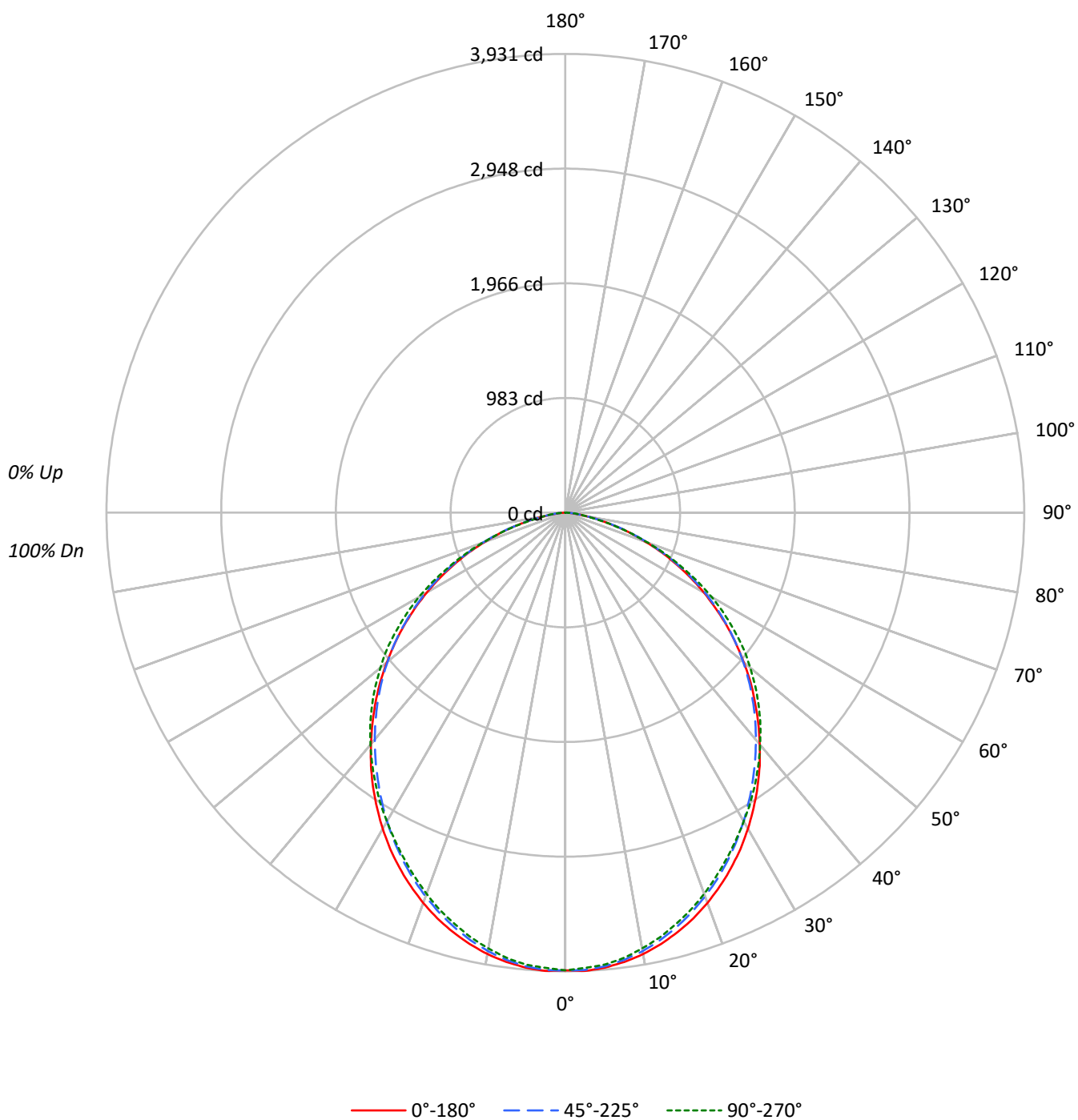
Lumens per Lamp: N/A
Luminaire Lumens: 9607.0 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5278	5278	5278
5°	5286	5270	5249
10°	5248	5213	5181
15°	5182	5122	5087
20°	5097	5011	4978
25°	4988	4884	4856
30°	4860	4744	4747
35°	4715	4598	4655
40°	4549	4460	4560
45°	4372	4318	4459
50°	4178	4162	4327
55°	3956	3975	4151
60°	3688	3739	3902
65°	3349	3417	3500
70°	2886	2958	2960
75°	2295	2353	2258
80°	1544	1567	1495
85°	781	993	1233

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4459 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.1	3.8
10°-20°	1036.0	10.8
20°-30°	1519.0	15.8
30°-40°	1766.4	18.4
40°-50°	1768.0	18.4
50°-60°	1525.7	15.9
60°-70°	1060.2	11.0
70°-80°	478.2	5.0
80°-90°	84.2	0.9
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°	2924.1	30.4
0°-40°	4690.6	48.8
0°-60°	7984.3	83.1
0°-90°	9607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3922	3922	3922	3922	3922	
5°	3914	3898	3902	3882	3887	371
15°	3720	3696	3677	3648	3652	1049
25°	3360	3328	3290	3263	3271	1547
35°	2871	2832	2799	2811	2834	1794
45°	2298	2266	2269	2314	2344	1773
55°	1686	1664	1694	1748	1770	1506
65°	1052	1047	1073	1089	1099	1041
75°	441	442	453	439	434	475
85°	51	55	64	76	80	76
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3922.4	3922.4	3922.4	3922.4	3922.4
2.5°	3930.9	3916.0	3922.4	3907.7	3905.1
5°	3913.5	3897.8	3901.8	3882.2	3886.6
7.5°	3883.2	3866.0	3865.3	3843.9	3848.6
10°	3841.2	3820.8	3815.3	3789.5	3792.2
12.5°	3787.5	3765.3	3753.6	3724.5	3729.6
15°	3720.5	3696.5	3677.4	3648.2	3651.7
17.5°	3646.9	3621.9	3593.2	3562.8	3570.7
20°	3559.6	3533.1	3499.4	3467.6	3476.7
22.5°	3463.0	3433.7	3399.5	3368.4	3374.9
25°	3360.2	3328.4	3289.5	3263.0	3270.7
27.5°	3248.2	3213.0	3174.8	3152.5	3163.6
30°	3128.0	3091.7	3053.7	3040.7	3055.7
32.5°	3001.3	2964.9	2929.1	2928.8	2949.9
35°	2870.6	2832.0	2799.1	2810.7	2834.1
37.5°	2734.7	2696.9	2670.3	2693.7	2718.0
40°	2590.2	2556.2	2539.2	2570.3	2596.2
42.5°	2445.4	2413.4	2405.9	2445.1	2473.0
45°	2297.6	2266.2	2269.2	2313.7	2343.5
47.5°	2151.4	2119.0	2131.2	2180.5	2207.2
50°	1996.1	1969.1	1988.5	2040.1	2067.1
52.5°	1840.9	1816.1	1842.9	1897.4	1928.5
55°	1686.4	1664.5	1694.5	1747.7	1769.6
57.5°	1528.0	1512.9	1544.9	1591.0	1611.9
60°	1370.6	1357.1	1389.6	1431.0	1450.1
62.5°	1211.3	1200.8	1233.1	1264.9	1275.3
65°	1051.9	1046.7	1073.2	1089.1	1099.4
67.5°	895.9	890.2	914.3	926.7	928.8
70°	733.7	733.2	752.0	755.6	752.4
72.5°	585.4	583.2	596.7	592.1	585.9
75°	441.4	441.6	452.7	439.4	434.3
77.5°	310.5	316.0	316.5	304.7	300.4
80°	199.3	206.7	202.3	196.9	193.0
82.5°	111.2	116.4	115.8	126.3	130.7
85°	50.6	55.2	64.3	75.5	79.9
87.5°	17.2	21.1	26.8	28.5	26.9
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	16.70	18.29	17.07	18.60	18.92	17.06	18.64	17.42	18.96	19.27
	3H	18.16	19.59	18.54	19.91	20.27	18.47	19.90	18.85	20.22	20.59
	4H	18.58	19.92	18.98	20.27	20.64	18.85	20.19	19.25	20.53	20.91
	6H	18.78	20.02	19.19	20.38	20.77	19.02	20.25	19.43	20.62	21.01
	8H	18.81	19.99	19.23	20.37	20.77	19.05	20.22	19.47	20.61	21.01
	12H	18.80	19.93	19.23	20.31	20.74	19.06	20.19	19.49	20.57	21.00
4H	2H	17.28	18.62	17.68	18.97	19.34	17.57	18.90	17.97	19.25	19.63
	3H	18.91	20.02	19.32	20.42	20.82	19.16	20.27	19.57	20.67	21.07
	4H	19.42	20.41	19.85	20.83	21.27	19.62	20.62	20.06	21.04	21.48
	6H	19.69	20.56	20.15	21.00	21.46	19.86	20.73	20.32	21.17	21.63
	8H	19.73	20.54	20.19	20.99	21.45	19.91	20.72	20.37	21.16	21.63
	12H	19.74	20.47	20.22	20.95	21.42	19.94	20.67	20.43	21.15	21.62
8H	4H	19.59	20.41	20.06	20.85	21.32	19.79	20.60	20.25	21.04	21.51
	6H	19.92	20.59	20.42	21.08	21.56	20.07	20.74	20.57	21.23	21.71
	8H	19.99	20.59	20.50	21.10	21.58	20.15	20.75	20.66	21.25	21.74
	12H	20.02	20.55	20.53	21.04	21.60	20.21	20.74	20.72	21.23	21.80
12H	4H	19.59	20.32	20.07	20.79	21.26	19.78	20.51	20.26	20.98	21.45
	6H	19.92	20.52	20.43	21.03	21.51	20.07	20.67	20.58	21.17	21.66
	8H	20.01	20.54	20.52	21.04	21.60	20.17	20.70	20.68	21.19	21.76