

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: P1499128

Luminaire Tested: MAE-G-4-120-1STD-LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499128
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-4-120-1STD-LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

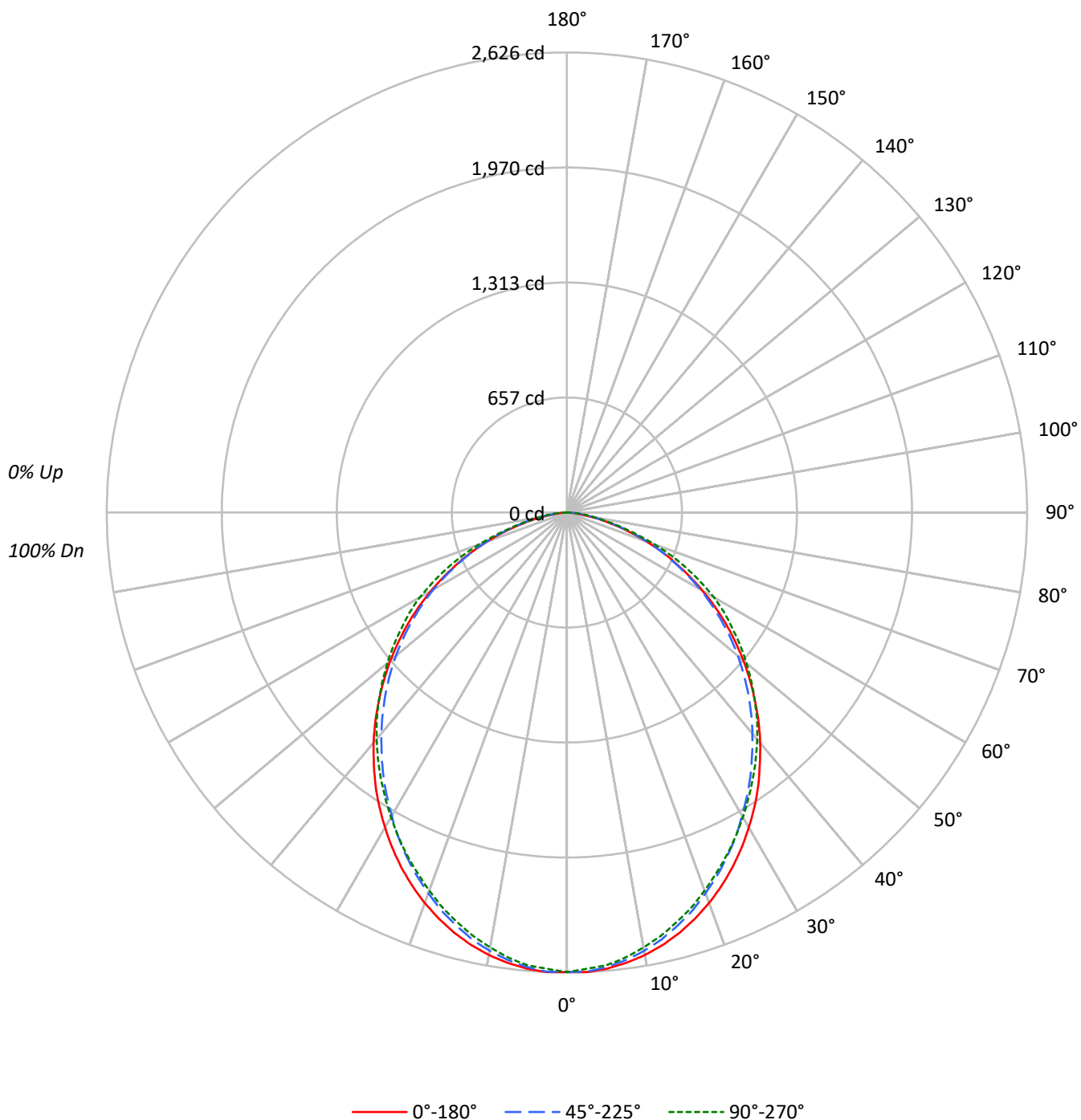
Lumens per Lamp: N/A
Luminaire Lumens: 6318.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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

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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	80	98	90	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	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	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3529	3529	3529
5°	3530	3518	3503
10°	3504	3471	3445
15°	3459	3400	3372
20°	3396	3311	3289
25°	3318	3215	3204
30°	3225	3105	3119
35°	3127	3002	3041
40°	3013	2893	2968
45°	2887	2783	2885
50°	2753	2666	2799
55°	2598	2526	2702
60°	2406	2366	2611
65°	2185	2150	2399
70°	1892	1916	2094
75°	1505	1600	1652
80°	1035	1192	1246
85°	574	880	1116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	3.9
10°-20°	688.6	10.9
20°-30°	1003.3	15.9
30°-40°	1157.9	18.3
40°-50°	1149.1	18.2
50°-60°	985.8	15.6
60°-70°	691.9	11.0
70°-80°	327.2	5.2
80°-90°	67.7	1.1
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°	1938.3	30.7
0°-40°	3096.2	49.0
0°-60°	5231.1	82.8
0°-90°	6318.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6318.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2623	2623	2623	2623	2623	
5°	2614	2611	2604	2588	2594	248
15°	2483	2471	2440	2415	2420	700
25°	2235	2208	2165	2148	2158	1029
35°	1904	1867	1828	1833	1851	1189
45°	1517	1486	1463	1494	1516	1170
55°	1107	1079	1077	1122	1152	989
65°	686	664	675	730	753	679
75°	290	280	308	321	318	313
85°	37	45	57	68	72	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2622.9	2622.9	2622.9	2622.9	2622.9
2.5°	2626.1	2628.0	2622.9	2604.4	2606.9
5°	2613.7	2611.2	2604.4	2588.3	2593.9
7.5°	2592.5	2589.4	2577.1	2558.6	2562.3
10°	2564.5	2558.2	2540.5	2517.7	2521.4
12.5°	2528.4	2520.4	2495.7	2470.6	2475.0
15°	2483.0	2471.4	2440.5	2415.4	2420.4
17.5°	2430.7	2418.3	2381.6	2354.6	2364.0
20°	2371.6	2354.3	2312.6	2288.2	2297.2
22.5°	2306.7	2284.8	2241.8	2219.3	2227.5
25°	2235.3	2208.3	2165.4	2148.5	2158.0
27.5°	2158.0	2128.7	2085.9	2071.5	2084.8
30°	2076.0	2044.6	1998.8	1993.2	2007.8
32.5°	1991.9	1958.8	1914.3	1915.5	1930.1
35°	1903.7	1867.4	1827.9	1833.4	1851.2
37.5°	1809.1	1774.7	1736.3	1754.0	1771.0
40°	1715.7	1680.1	1646.9	1670.0	1689.6
42.5°	1618.7	1585.0	1556.0	1582.9	1605.6
45°	1517.3	1486.1	1462.7	1494.0	1516.1
47.5°	1415.9	1384.6	1368.8	1403.2	1428.3
50°	1315.1	1285.8	1273.6	1312.2	1337.0
52.5°	1210.0	1181.9	1177.2	1217.2	1246.7
55°	1107.4	1078.6	1077.0	1121.8	1152.0
57.5°	1001.6	979.8	979.2	1028.3	1064.8
60°	894.1	872.1	879.1	936.8	970.1
62.5°	789.5	767.5	775.7	839.4	861.3
65°	686.3	664.2	675.3	729.7	753.4
67.5°	585.0	564.2	583.1	632.4	647.3
70°	481.0	462.7	487.1	526.8	532.3
72.5°	384.0	368.2	397.4	422.0	421.2
75°	289.5	280.4	307.7	320.9	317.8
77.5°	206.9	202.0	225.3	231.9	229.2
80°	133.6	136.7	153.8	157.9	160.8
82.5°	77.7	83.8	96.7	110.7	113.8
85°	37.2	44.6	57.0	68.1	72.3
87.5°	13.0	17.9	23.6	26.0	25.4
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	15.15	16.74	15.52	17.05	17.37	15.52	17.10	15.88	17.41	17.73
	3H	16.59	18.01	16.97	18.34	18.70	17.10	18.53	17.48	18.86	19.22
	4H	17.01	18.35	17.41	18.70	19.07	17.56	18.89	17.96	19.24	19.62
	6H	17.22	18.46	17.63	18.82	19.22	17.80	19.04	18.21	19.40	19.79
	8H	17.25	18.43	17.68	18.82	19.22	17.86	19.04	18.29	19.43	19.83
	12H	17.26	18.39	17.69	18.77	19.20	17.91	19.04	18.34	19.42	19.85
4H	2H	15.69	17.02	16.09	17.37	17.75	15.99	17.32	16.38	17.67	18.05
	3H	17.31	18.42	17.72	18.82	19.22	17.77	18.89	18.18	19.28	19.68
	4H	17.81	18.81	18.24	19.23	19.66	18.33	19.33	18.76	19.75	20.18
	6H	18.10	18.97	18.56	19.41	19.87	18.66	19.54	19.12	19.98	20.44
	8H	18.15	18.97	18.61	19.41	19.88	18.76	19.57	19.22	20.02	20.48
	12H	18.17	18.90	18.65	19.38	19.85	18.84	19.56	19.32	20.04	20.51
8H	4H	18.02	18.84	18.49	19.28	19.75	18.50	19.31	18.96	19.76	20.22
	6H	18.38	19.05	18.87	19.54	20.02	18.90	19.57	19.40	20.06	20.54
	8H	18.46	19.06	18.97	19.57	20.06	19.04	19.65	19.55	20.15	20.64
	12H	18.51	19.04	19.02	19.53	20.09	19.17	19.70	19.68	20.19	20.76
12H	4H	18.03	18.76	18.51	19.24	19.71	18.50	19.22	18.98	19.70	20.17
	6H	18.39	19.00	18.90	19.50	19.99	18.90	19.51	19.41	20.01	20.50
	8H	18.51	19.04	19.02	19.54	20.10	19.08	19.62	19.59	20.11	20.67