

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: P1499047

Luminaire Tested: MAE-G-4-120-1LO-LO-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499047
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-4-120-1LO-LO-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

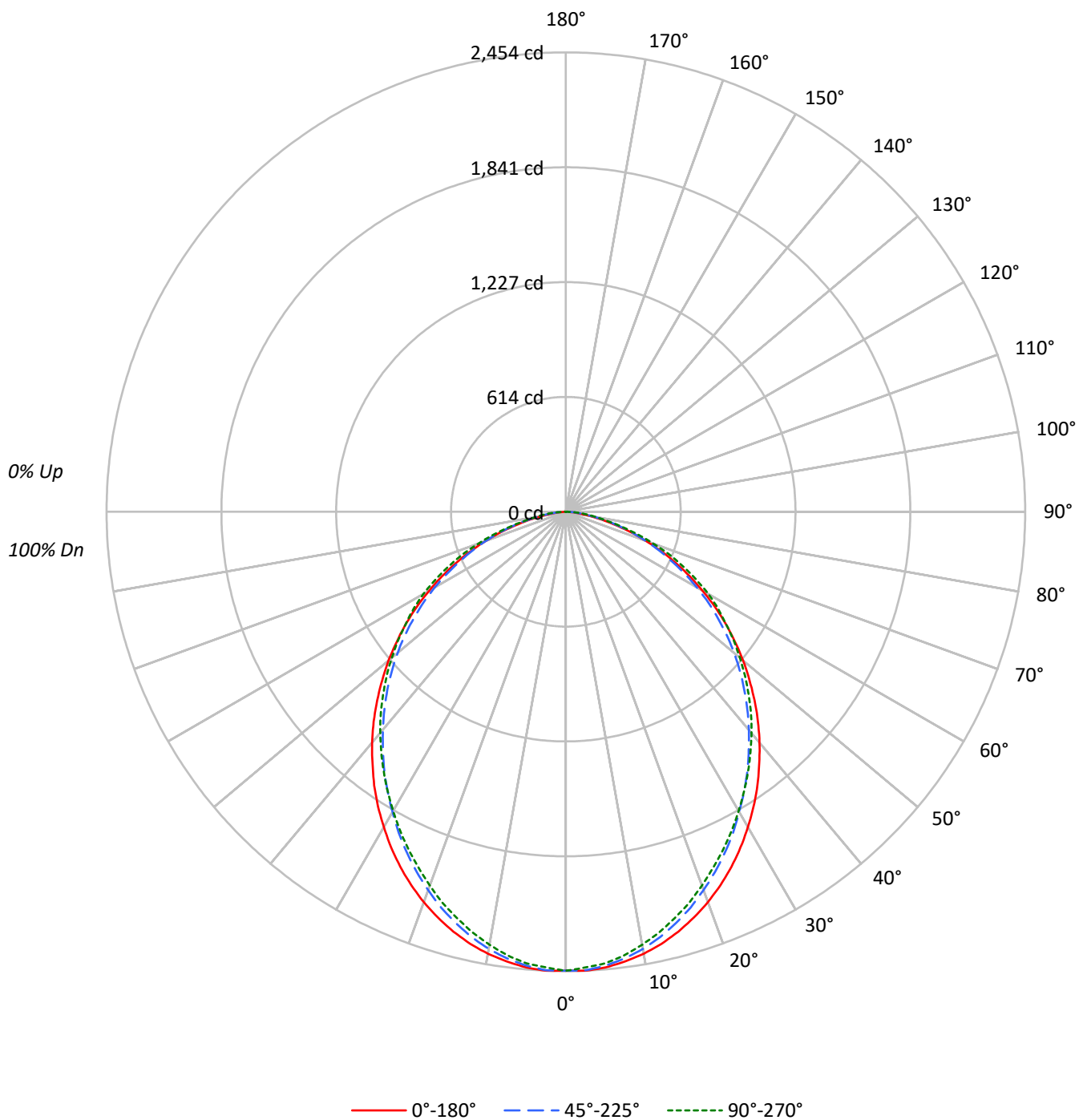
Lumens per Lamp: N/A
Luminaire Lumens: 5866.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.2
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

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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	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	82	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°	3298	3298	3298
5°	3299	3287	3271
10°	3276	3240	3209
15°	3234	3168	3130
20°	3177	3079	3043
25°	3107	2984	2954
30°	3022	2877	2867
35°	2932	2777	2786
40°	2828	2671	2710
45°	2712	2567	2627
50°	2588	2456	2540
55°	2445	2326	2448
60°	2269	2176	2367
65°	2064	1983	2201
70°	1792	1783	1961
75°	1430	1517	1611
80°	989	1172	1278
85°	553	894	1162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2712 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.1	3.9
10°-20°	641.5	10.9
20°-30°	931.8	15.9
30°-40°	1072.4	18.3
40°-50°	1061.4	18.1
50°-60°	908.8	15.5
60°-70°	641.0	10.9
70°-80°	311.4	5.3
80°-90°	67.8	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°	1803.3	30.7
0°-40°	2875.7	49.0
0°-60°	4845.8	82.6
0°-90°	5866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2451	2451	2451	2451	2451	
5°	2443	2441	2434	2416	2422	232
15°	2322	2309	2274	2244	2247	654
25°	2093	2062	2010	1984	1990	963
35°	1785	1743	1691	1684	1696	1115
45°	1425	1387	1349	1366	1380	1099
55°	1042	1007	991	1021	1044	930
65°	648	621	623	670	691	642
75°	275	263	292	310	310	297
85°	36	44	58	70	75	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2451.4	2451.4	2451.4	2451.4	2451.4
2.5°	2454.2	2456.2	2451.4	2433.0	2436.2
5°	2442.9	2440.8	2433.5	2416.3	2421.8
7.5°	2423.3	2420.0	2406.8	2386.4	2390.0
10°	2397.5	2390.7	2371.2	2345.8	2348.8
12.5°	2363.9	2354.9	2327.4	2298.6	2301.7
15°	2322.0	2309.0	2274.0	2243.7	2246.9
17.5°	2273.8	2259.0	2216.7	2183.7	2190.7
20°	2219.1	2199.1	2150.4	2119.3	2125.2
22.5°	2159.0	2133.9	2082.8	2052.6	2057.4
25°	2092.7	2062.3	2009.9	1984.1	1989.7
27.5°	2021.4	1987.8	1933.9	1910.4	1919.0
30°	1945.3	1909.1	1852.0	1835.8	1845.3
32.5°	1867.0	1828.6	1772.4	1761.9	1771.3
35°	1784.9	1743.0	1690.6	1684.4	1696.2
37.5°	1697.0	1656.7	1605.0	1608.9	1620.1
40°	1610.0	1568.3	1520.9	1529.9	1543.2
42.5°	1519.4	1479.1	1436.0	1448.4	1464.1
45°	1425.1	1386.7	1349.0	1365.6	1380.4
47.5°	1330.4	1292.4	1261.8	1281.1	1298.9
50°	1236.5	1200.0	1173.1	1196.7	1213.3
52.5°	1137.8	1103.0	1083.9	1108.6	1130.1
55°	1042.2	1006.9	991.4	1021.0	1043.6
57.5°	943.4	914.4	901.1	935.8	964.2
60°	843.1	814.5	808.7	852.7	879.6
62.5°	745.1	717.0	714.4	765.9	785.2
65°	648.4	620.8	623.0	670.4	691.2
67.5°	552.9	527.4	539.1	584.7	598.6
70°	455.4	432.7	453.2	491.7	498.6
72.5°	363.9	344.8	372.5	399.5	401.2
75°	275.0	263.2	291.8	309.7	309.8
77.5°	196.9	190.7	217.1	229.2	230.0
80°	127.7	130.5	151.3	160.7	164.9
82.5°	74.4	80.9	97.2	113.3	117.6
85°	35.8	43.7	57.9	70.2	75.3
87.5°	12.4	17.6	24.2	26.8	26.1
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	14.94	16.53	15.31	16.84	17.16	15.11	16.70	15.48	17.01	17.32
	3H	16.39	17.82	16.77	18.14	18.51	16.76	18.18	17.14	18.51	18.87
	4H	16.82	18.16	17.22	18.51	18.88	17.26	18.60	17.66	18.95	19.32
	6H	17.04	18.28	17.45	18.64	19.04	17.56	18.79	17.97	19.16	19.55
	8H	17.08	18.26	17.50	18.65	19.05	17.64	18.82	18.07	19.21	19.61
	12H	17.08	18.21	17.51	18.59	19.02	17.70	18.83	18.13	19.22	19.65
4H	2H	15.46	16.80	15.86	17.15	17.52	15.60	16.94	16.00	17.28	17.66
	3H	17.09	18.21	17.50	18.61	19.01	17.45	18.56	17.86	18.96	19.36
	4H	17.61	18.61	18.04	19.03	19.46	18.06	19.07	18.49	19.48	19.92
	6H	17.91	18.78	18.36	19.22	19.68	18.46	19.33	18.92	19.78	20.23
	8H	17.96	18.78	18.43	19.22	19.69	18.58	19.40	19.04	19.84	20.31
	12H	17.99	18.72	18.47	19.19	19.66	18.68	19.41	19.16	19.89	20.36
8H	4H	17.83	18.65	18.29	19.09	19.56	18.24	19.06	18.70	19.50	19.97
	6H	18.20	18.87	18.69	19.36	19.84	18.72	19.40	19.22	19.89	20.36
	8H	18.29	18.89	18.80	19.40	19.89	18.90	19.50	19.41	20.01	20.50
	12H	18.34	18.87	18.85	19.37	19.93	19.05	19.59	19.56	20.08	20.64
12H	4H	17.84	18.57	18.32	19.05	19.52	18.24	18.97	18.72	19.45	19.92
	6H	18.22	18.83	18.73	19.33	19.82	18.73	19.33	19.24	19.84	20.33
	8H	18.35	18.88	18.86	19.37	19.94	18.95	19.48	19.46	19.97	20.54