

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: P1499041

Luminaire Tested: MAE-G-4-120-1LO-LO-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499041
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-35-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

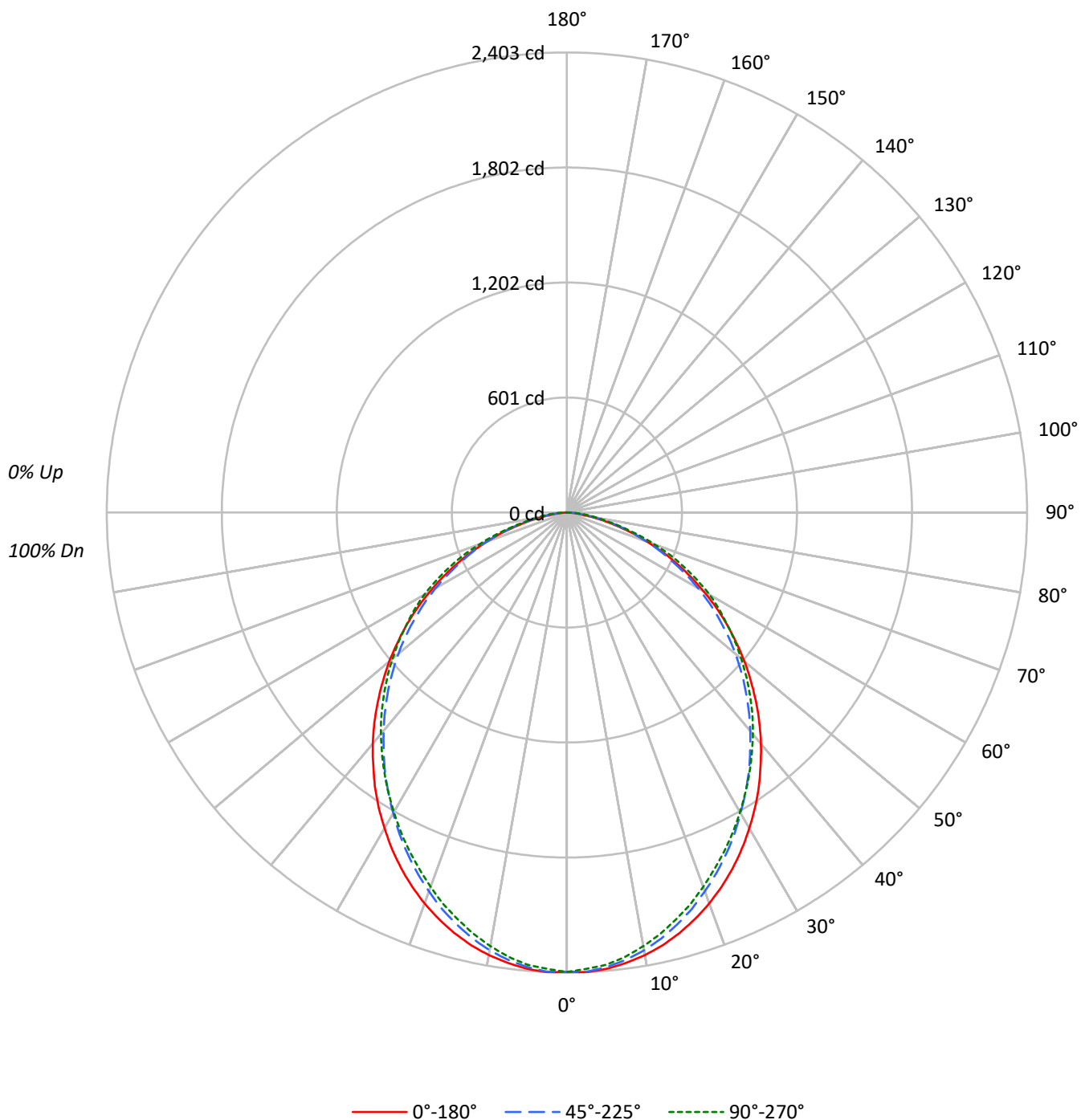
Lumens per Lamp: N/A
Luminaire Lumens: 5744.0 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3230	3230	3230
5°	3231	3218	3203
10°	3207	3172	3142
15°	3167	3102	3065
20°	3111	3015	2980
25°	3042	2922	2893
30°	2959	2818	2807
35°	2871	2719	2728
40°	2769	2616	2654
45°	2655	2513	2572
50°	2534	2404	2487
55°	2394	2277	2397
60°	2222	2131	2318
65°	2022	1942	2155
70°	1755	1746	1921
75°	1400	1486	1577
80°	969	1148	1251
85°	542	875	1139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2655 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	3.9
10°-20°	628.1	10.9
20°-30°	912.4	15.9
30°-40°	1050.0	18.3
40°-50°	1039.3	18.1
50°-60°	889.9	15.5
60°-70°	627.6	10.9
70°-80°	305.0	5.3
80°-90°	66.4	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°	1765.8	30.7
0°-40°	2815.9	49.0
0°-60°	4745.0	82.6
0°-90°	5744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2400	2400	2400	2400	2400	
5°	2392	2390	2383	2366	2371	227
15°	2274	2261	2227	2197	2200	641
25°	2049	2019	1968	1943	1948	943
35°	1748	1707	1655	1649	1661	1092
45°	1396	1358	1321	1337	1352	1076
55°	1021	986	971	1000	1022	911
65°	635	608	610	656	677	628
75°	269	258	286	303	303	291
85°	35	43	57	69	74	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2400.3	2400.3	2400.3	2400.3	2400.3
2.5°	2403.1	2405.1	2400.3	2382.4	2385.4
5°	2392.1	2390.0	2382.9	2366.0	2371.4
7.5°	2373.0	2369.7	2356.8	2336.9	2340.3
10°	2347.6	2341.0	2322.0	2297.0	2300.0
12.5°	2314.8	2306.0	2279.0	2250.8	2253.9
15°	2273.7	2261.0	2226.7	2197.0	2200.1
17.5°	2226.4	2212.0	2170.6	2138.2	2145.1
20°	2173.0	2153.4	2105.7	2075.1	2081.0
22.5°	2114.1	2089.5	2039.5	2010.0	2014.6
25°	2049.3	2019.4	1968.1	1942.8	1948.4
27.5°	1979.3	1946.5	1893.7	1870.6	1879.1
30°	1904.8	1869.4	1813.5	1797.6	1806.8
32.5°	1828.3	1790.6	1735.5	1725.3	1734.5
35°	1747.8	1706.8	1655.4	1649.3	1660.9
37.5°	1661.7	1622.2	1571.5	1575.5	1586.3
40°	1576.5	1535.7	1489.3	1498.0	1511.0
42.5°	1487.8	1448.4	1406.1	1418.4	1433.6
45°	1395.5	1357.9	1320.9	1337.2	1351.8
47.5°	1302.8	1265.6	1235.5	1254.5	1271.9
50°	1210.8	1175.1	1148.7	1171.7	1188.1
52.5°	1114.2	1080.1	1061.3	1085.6	1106.5
55°	1020.6	985.9	970.8	999.7	1021.9
57.5°	923.8	895.4	882.3	916.3	944.1
60°	825.6	797.6	791.9	835.0	861.3
62.5°	729.6	702.1	699.5	750.0	768.8
65°	635.0	607.9	610.0	656.4	676.8
67.5°	541.4	516.5	527.9	572.5	586.1
70°	446.0	423.7	443.8	481.4	488.2
72.5°	356.4	337.7	364.8	391.2	392.8
75°	269.3	257.8	285.8	303.3	303.4
77.5°	192.8	186.7	212.6	224.4	225.1
80°	125.0	127.8	148.1	157.4	161.5
82.5°	72.9	79.3	95.2	111.0	115.3
85°	35.1	42.8	56.7	68.8	73.8
87.5°	12.1	17.3	23.6	26.2	25.5
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	14.87	16.45	15.24	16.77	17.08	15.04	16.62	15.41	16.94	17.25
	3H	16.32	17.74	16.70	18.07	18.43	16.68	18.11	17.06	18.44	18.80
	4H	16.75	18.09	17.15	18.44	18.81	17.19	18.53	17.59	18.87	19.25
	6H	16.97	18.21	17.38	18.57	18.96	17.48	18.72	17.89	19.09	19.48
	8H	17.00	18.18	17.43	18.57	18.97	17.57	18.75	18.00	19.14	19.54
	12H	17.01	18.14	17.44	18.52	18.95	17.63	18.76	18.06	19.14	19.57
4H	2H	15.39	16.72	15.78	17.07	17.45	15.52	16.86	15.92	17.21	17.59
	3H	17.02	18.14	17.43	18.53	18.94	17.37	18.49	17.78	18.89	19.29
	4H	17.53	18.54	17.97	18.95	19.39	17.99	18.99	18.42	19.41	19.84
	6H	17.84	18.71	18.29	19.15	19.61	18.39	19.26	18.84	19.70	20.16
	8H	17.89	18.71	18.35	19.15	19.62	18.51	19.33	18.97	19.77	20.24
	12H	17.91	18.64	18.39	19.12	19.59	18.61	19.34	19.09	19.82	20.29
8H	4H	17.76	18.58	18.22	19.02	19.49	18.17	18.99	18.63	19.43	19.90
	6H	18.13	18.80	18.62	19.29	19.77	18.65	19.32	19.14	19.81	20.29
	8H	18.21	18.82	18.73	19.33	19.81	18.82	19.43	19.34	19.94	20.43
	12H	18.27	18.80	18.78	19.29	19.86	18.98	19.52	19.49	20.01	20.57
12H	4H	17.77	18.50	18.25	18.98	19.45	18.17	18.90	18.65	19.38	19.85
	6H	18.15	18.75	18.66	19.26	19.75	18.65	19.26	19.17	19.77	20.26
	8H	18.28	18.81	18.78	19.30	19.86	18.87	19.41	19.38	19.90	20.46