

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: P1498213

Luminaire Tested: MAE-G-2-120-1LO-STD-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498213
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-2-120-1LO-STD-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

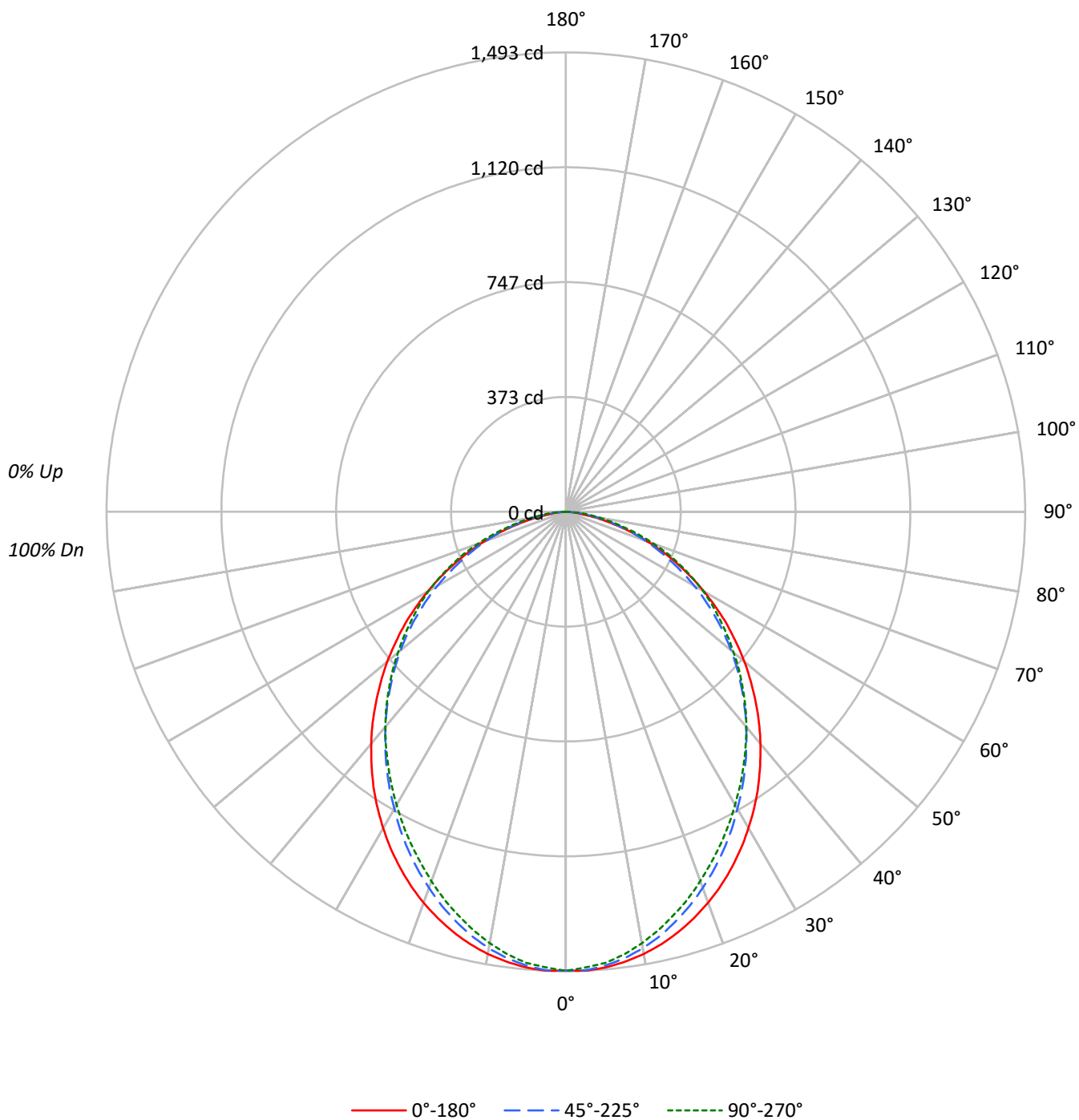
Lumens per Lamp: N/A
Luminaire Lumens: 3541.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	60	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°	4014	4014	4014
5°	4016	3999	3976
10°	3988	3936	3890
15°	3939	3841	3778
20°	3873	3724	3658
25°	3789	3601	3536
30°	3690	3465	3418
35°	3582	3337	3309
40°	3458	3204	3207
45°	3320	3073	3095
50°	3172	2936	2981
55°	3000	2778	2866
60°	2791	2598	2774
65°	2545	2376	2618
70°	2213	2158	2393
75°	1774	1880	2058
80°	1235	1511	1720
85°	695	1195	1590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3320 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.9	4.0
10°-20°	388.8	11.0
20°-30°	562.7	15.9
30°-40°	645.3	18.2
40°-50°	636.6	18.0
50°-60°	543.8	15.4
60°-70°	385.9	10.9
70°-80°	193.6	5.5
80°-90°	44.6	1.3
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°	1091.3	30.8
0°-40°	1736.6	49.0
0°-60°	2917.1	82.4
0°-90°	3541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1487	1485	1480	1468	1472	141
15°	1414	1404	1379	1355	1356	398
25°	1276	1254	1213	1190	1191	587
35°	1090	1059	1016	1004	1007	681
45°	872	842	808	808	813	673
55°	640	612	592	601	611	571
65°	400	378	373	399	411	395
75°	171	161	181	196	198	184
85°	22	28	39	48	52	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1491.5	1491.5	1491.5	1491.5	1491.5
2.5°	1493.2	1494.6	1491.5	1479.7	1482.1
5°	1486.6	1485.4	1480.3	1468.2	1471.8
7.5°	1474.8	1472.5	1463.3	1448.7	1450.9
10°	1459.3	1454.6	1440.6	1422.2	1423.6
12.5°	1439.0	1432.4	1412.5	1391.0	1392.3
15°	1413.9	1404.5	1378.6	1355.1	1356.1
17.5°	1385.0	1373.6	1342.0	1316.3	1319.3
20°	1352.3	1337.3	1300.5	1275.4	1277.4
22.5°	1315.9	1297.4	1258.4	1233.3	1234.0
25°	1276.1	1253.8	1212.7	1189.8	1190.9
27.5°	1233.2	1208.4	1165.4	1143.8	1146.2
30°	1187.4	1160.4	1115.1	1097.3	1100.0
32.5°	1140.0	1111.2	1066.2	1051.4	1054.1
35°	1090.3	1059.0	1015.7	1003.5	1007.2
37.5°	1037.1	1006.6	963.6	956.9	960.1
40°	984.3	952.8	912.1	908.3	912.8
42.5°	929.3	898.5	860.4	858.7	864.1
45°	872.4	842.1	807.6	808.5	813.4
47.5°	814.7	785.2	754.9	757.5	764.0
50°	757.7	728.9	701.3	706.4	712.0
52.5°	697.4	670.1	647.5	653.5	662.1
55°	639.5	611.8	592.2	601.2	610.9
57.5°	579.4	555.5	537.9	551.0	564.0
60°	518.5	495.3	482.8	502.2	515.5
62.5°	458.7	436.0	427.1	452.4	463.3
65°	399.7	377.7	373.1	399.4	411.1
67.5°	340.9	321.1	323.8	351.1	359.6
70°	281.3	263.5	274.3	298.6	304.1
72.5°	225.1	210.4	227.6	246.8	249.5
75°	170.6	161.0	180.8	195.5	197.9
77.5°	122.3	117.3	136.9	148.6	151.3
80°	79.7	81.3	97.5	107.4	111.0
82.5°	46.7	51.3	64.2	76.2	79.8
85°	22.5	28.0	38.7	47.6	51.5
87.5°	7.7	11.4	16.3	18.2	17.7
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	15.66	17.24	16.02	17.55	17.87	15.59	17.17	15.95	17.48	17.80
	3H	17.12	18.55	17.50	18.88	19.24	17.30	18.73	17.68	19.06	19.42
	4H	17.56	18.90	17.96	19.25	19.63	17.87	19.21	18.27	19.56	19.93
	6H	17.79	19.03	18.20	19.39	19.78	18.24	19.48	18.65	19.84	20.23
	8H	17.83	19.01	18.25	19.40	19.80	18.35	19.54	18.78	19.92	20.32
	12H	17.83	18.96	18.26	19.35	19.78	18.44	19.57	18.87	19.95	20.38
4H	2H	16.15	17.49	16.55	17.84	18.21	16.09	17.43	16.49	17.78	18.16
	3H	17.81	18.92	18.22	19.32	19.72	18.02	19.14	18.43	19.53	19.93
	4H	18.33	19.34	18.76	19.75	20.19	18.71	19.71	19.14	20.13	20.56
	6H	18.64	19.52	19.10	19.96	20.42	19.19	20.06	19.64	20.51	20.96
	8H	18.70	19.52	19.16	19.97	20.43	19.35	20.16	19.81	20.61	21.07
	12H	18.73	19.46	19.21	19.94	20.41	19.47	20.20	19.95	20.68	21.15
8H	4H	18.57	19.38	19.03	19.83	20.29	18.90	19.72	19.37	20.17	20.63
	6H	18.95	19.63	19.44	20.12	20.59	19.48	20.16	19.97	20.65	21.12
	8H	19.05	19.65	19.56	20.16	20.65	19.70	20.31	20.21	20.82	21.30
	12H	19.10	19.64	19.61	20.13	20.69	19.89	20.43	20.40	20.92	21.49
12H	4H	18.58	19.32	19.06	19.79	20.26	18.91	19.64	19.39	20.12	20.59
	6H	18.98	19.59	19.49	20.10	20.58	19.49	20.10	20.00	20.61	21.09
	8H	19.12	19.66	19.63	20.15	20.71	19.76	20.30	20.27	20.79	21.35