

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: P1499002

Luminaire Tested: MAE-G-4-120-1LO-50-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499002
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-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

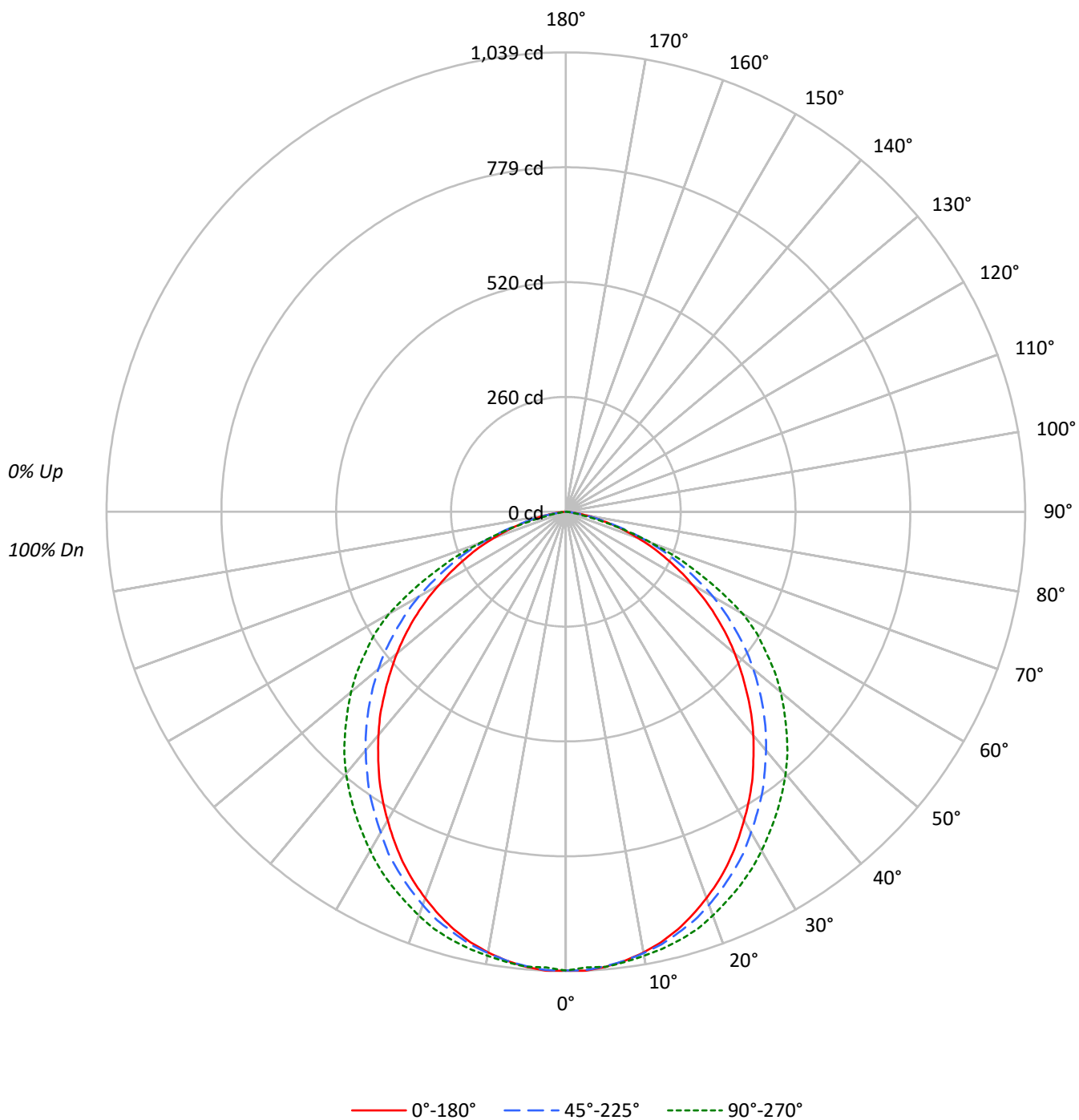
Lumens per Lamp: N/A
Luminaire Lumens: 2612.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 24
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	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	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	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	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1396	1396	1396
5°	1395	1393	1395
10°	1383	1385	1393
15°	1362	1372	1395
20°	1332	1355	1391
25°	1296	1332	1385
30°	1252	1301	1375
35°	1209	1273	1366
40°	1159	1238	1358
45°	1102	1202	1344
50°	1044	1159	1328
55°	977	1103	1296
60°	892	1036	1245
65°	798	927	1069
70°	681	781	816
75°	528	567	458
80°	347	301	162
85°	184	139	93

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1344 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.8
10°-20°	278.4	10.7
20°-30°	414.0	15.9
30°-40°	486.8	18.6
40°-50°	491.3	18.8
50°-60°	426.6	16.3
60°-70°	290.3	11.1
70°-80°	113.1	4.3
80°-90°	13.5	0.5
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°	790.4	30.3
0°-40°	1277.2	48.9
0°-60°	2195.0	84.0
0°-90°	2612.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1033	1032	1032	1032	1033	98
15°	978	979	985	996	1002	275
25°	873	878	897	920	933	402
35°	736	745	775	811	832	460
45°	579	594	632	681	706	447
55°	416	430	470	524	552	372
65°	251	263	291	322	336	249
75°	102	108	109	98	88	110
85°	12	12	9	8	6	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1037.5	1037.5	1037.5	1037.5	1037.5
2.5°	1039.0	1039.0	1037.5	1033.0	1031.5
5°	1033.0	1031.5	1031.5	1031.5	1033.0
7.5°	1024.1	1024.1	1024.1	1025.6	1027.1
10°	1012.1	1012.1	1013.6	1016.6	1019.6
12.5°	997.2	998.7	1001.7	1007.6	1012.1
15°	977.8	979.3	985.3	995.7	1001.7
17.5°	955.4	959.9	968.8	980.8	989.7
20°	930.0	934.5	946.4	961.4	971.8
22.5°	903.2	907.6	922.6	940.5	952.4
25°	873.3	877.8	897.2	919.6	933.0
27.5°	840.5	846.4	870.3	894.2	910.6
30°	806.1	813.6	837.5	867.3	885.2
32.5°	771.8	780.7	806.1	840.5	858.4
35°	736.0	744.9	774.8	810.6	831.5
37.5°	697.1	707.6	738.9	782.2	803.1
40°	659.8	670.3	704.6	750.9	773.3
42.5°	621.0	633.0	668.8	716.6	741.9
45°	579.2	594.1	631.5	680.7	706.1
47.5°	538.9	552.3	592.6	643.4	670.3
50°	498.6	513.5	553.8	606.1	634.4
52.5°	458.3	471.7	513.5	565.8	595.6
55°	416.5	429.9	470.2	524.0	552.3
57.5°	374.7	391.1	428.4	480.7	512.0
60°	331.4	346.3	385.1	437.4	462.8
62.5°	291.1	304.5	337.4	386.6	398.6
65°	250.8	262.7	291.1	322.4	335.9
67.5°	213.5	222.4	247.8	268.7	274.7
70°	173.2	182.1	198.5	210.5	207.5
72.5°	137.3	143.3	153.8	152.3	144.8
75°	101.5	107.5	109.0	98.5	88.1
77.5°	71.7	74.6	70.2	55.2	44.8
80°	44.8	46.3	38.8	23.9	20.9
82.5°	25.4	25.4	17.9	14.9	11.9
85°	11.9	11.9	9.0	7.5	6.0
87.5°	4.5	4.5	3.0	3.0	3.0
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	11.76	13.34	12.13	13.66	13.97	13.34	14.92	13.71	15.24	15.55
	3H	13.10	14.52	13.48	14.84	15.20	14.61	16.03	14.99	16.36	16.72
	4H	13.47	14.80	13.87	15.14	15.52	14.81	16.14	15.21	16.48	16.86
	6H	13.63	14.86	14.04	15.22	15.62	14.80	16.03	15.22	16.40	16.79
	8H	13.65	14.82	14.07	15.20	15.60	14.78	15.95	15.20	16.34	16.74
	12H	13.64	14.76	14.07	15.14	15.57	14.75	15.87	15.18	16.25	16.68
4H	2H	12.43	13.76	12.83	14.11	14.48	13.72	15.05	14.12	15.40	15.77
	3H	13.93	15.03	14.34	15.43	15.83	15.16	16.26	15.57	16.66	17.06
	4H	14.37	15.36	14.80	15.77	16.21	15.41	16.40	15.84	16.81	17.25
	6H	14.59	15.45	15.05	15.89	16.35	15.44	16.30	15.89	16.74	17.20
	8H	14.62	15.42	15.08	15.86	16.33	15.41	16.21	15.87	16.66	17.12
	12H	14.62	15.34	15.10	15.81	16.28	15.39	16.10	15.87	16.58	17.05
8H	4H	14.53	15.33	14.99	15.77	16.24	15.49	16.30	15.96	16.74	17.21
	6H	14.79	15.44	15.28	15.93	16.41	15.53	16.19	16.02	16.68	17.15
	8H	14.83	15.42	15.34	15.92	16.41	15.50	16.09	16.01	16.60	17.09
	12H	14.85	15.37	15.36	15.86	16.42	15.49	16.01	16.00	16.50	17.06
12H	4H	14.51	15.22	14.99	15.70	16.17	15.48	16.20	15.96	16.67	17.14
	6H	14.76	15.35	15.27	15.86	16.34	15.50	16.09	16.01	16.60	17.09
	8H	14.82	15.34	15.33	15.84	16.40	15.50	16.02	16.01	16.51	17.07