

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: P1498987

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498987
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-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

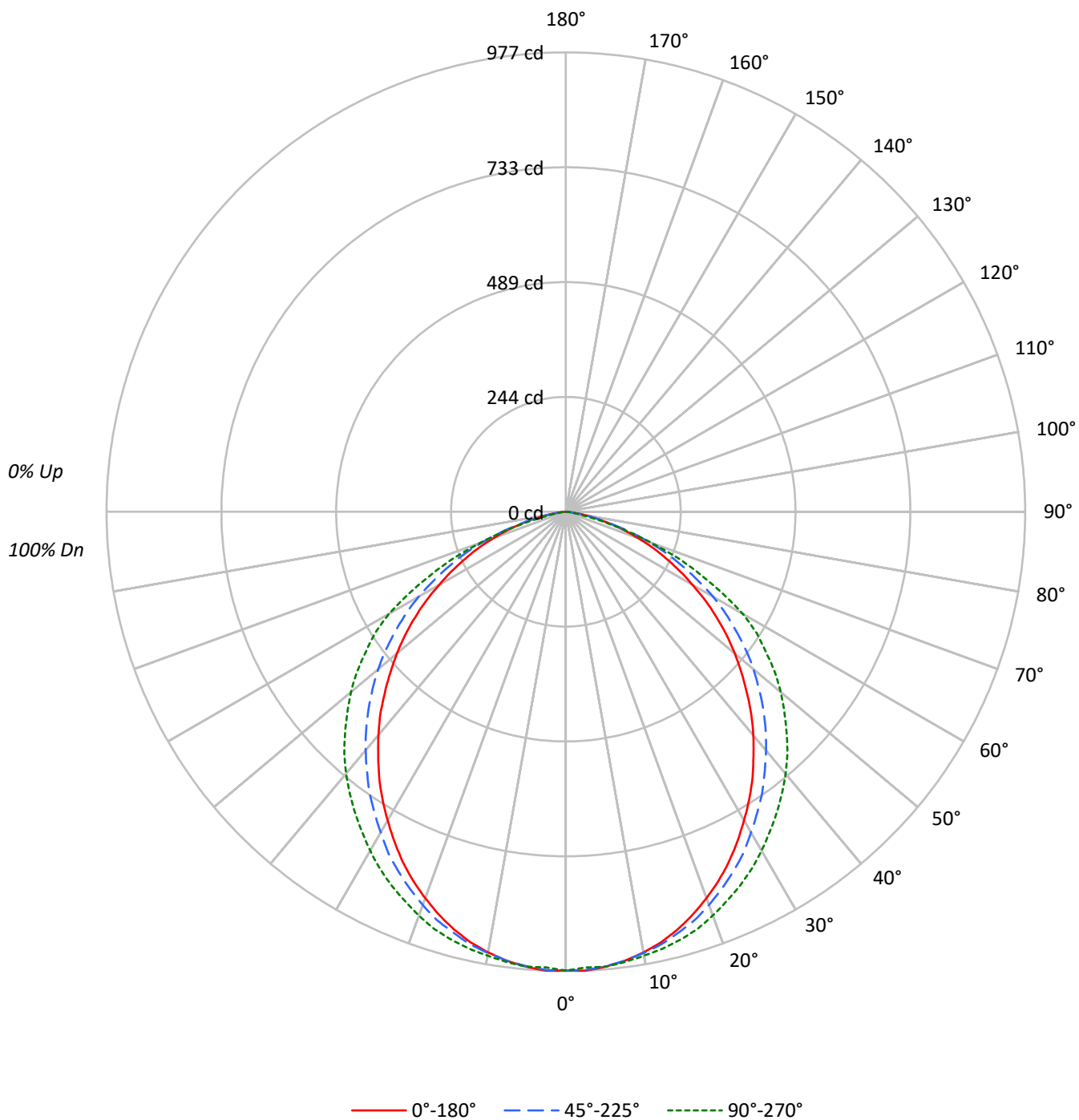
Lumens per Lamp: N/A
Luminaire Lumens: 2456.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1313	1313	1313
5°	1312	1310	1312
10°	1300	1302	1310
15°	1281	1290	1312
20°	1252	1274	1308
25°	1219	1252	1302
30°	1178	1223	1293
35°	1137	1197	1284
40°	1090	1164	1277
45°	1036	1130	1263
50°	981	1090	1249
55°	919	1037	1218
60°	839	974	1171
65°	751	871	1005
70°	640	734	768
75°	496	533	430
80°	326	283	153
85°	173	130	86

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1263 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	3.8
10°-20°	261.8	10.7
20°-30°	389.3	15.9
30°-40°	457.7	18.6
40°-50°	461.9	18.8
50°-60°	401.1	16.3
60°-70°	273.0	11.1
70°-80°	106.4	4.3
80°-90°	12.7	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°	743.2	30.3
0°-40°	1200.9	48.9
0°-60°	2064.0	84.0
0°-90°	2456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	971	970	970	970	971	92
15°	919	921	926	936	942	259
25°	821	825	844	865	877	378
35°	692	700	728	762	782	432
45°	545	559	594	640	664	420
55°	392	404	442	493	519	350
65°	236	247	274	303	316	234
75°	95	101	102	93	83	104
85°	11	11	8	7	6	16
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.5	975.5	975.5	975.5	975.5
2.5°	976.9	976.9	975.5	971.3	969.9
5°	971.3	969.9	969.9	969.9	971.3
7.5°	962.9	962.9	962.9	964.3	965.7
10°	951.7	951.7	953.1	955.9	958.7
12.5°	937.6	939.0	941.9	947.5	951.7
15°	919.4	920.8	926.4	936.2	941.9
17.5°	898.3	902.6	911.0	922.2	930.6
20°	874.5	878.7	889.9	904.0	913.8
22.5°	849.2	853.4	867.5	884.3	895.5
25°	821.1	825.4	843.6	864.7	877.3
27.5°	790.3	795.9	818.3	840.8	856.2
30°	758.0	765.0	787.5	815.5	832.4
32.5°	725.7	734.1	758.0	790.3	807.1
35°	692.0	700.4	728.5	762.2	781.8
37.5°	655.5	665.3	694.8	735.5	755.2
40°	620.4	630.2	662.5	706.0	727.1
42.5°	583.9	595.2	628.8	673.8	697.6
45°	544.6	558.7	593.7	640.1	663.9
47.5°	506.7	519.4	557.3	605.0	630.2
50°	468.8	482.9	520.8	569.9	596.6
52.5°	430.9	443.6	482.9	532.0	560.1
55°	391.6	404.3	442.2	492.7	519.4
57.5°	352.3	367.8	402.8	452.0	481.5
60°	311.6	325.6	362.1	411.3	435.1
62.5°	273.7	286.3	317.2	363.5	374.8
65°	235.8	247.0	273.7	303.2	315.8
67.5°	200.7	209.1	233.0	252.7	258.3
70°	162.8	171.2	186.7	197.9	195.1
72.5°	129.1	134.8	144.6	143.2	136.2
75°	95.4	101.1	102.5	92.6	82.8
77.5°	67.4	70.2	66.0	51.9	42.1
80°	42.1	43.5	36.5	22.5	19.7
82.5°	23.9	23.9	16.8	14.0	11.2
85°	11.2	11.2	8.4	7.0	5.6
87.5°	4.2	4.2	2.8	2.8	2.8
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	11.55	13.13	11.91	13.44	13.76	13.13	14.71	13.49	15.02	15.34
	3H	12.88	14.30	13.26	14.63	14.99	14.40	15.82	14.78	16.14	16.50
	4H	13.25	14.58	13.65	14.93	15.31	14.59	15.92	14.99	16.27	16.65
	6H	13.42	14.64	13.83	15.01	15.40	14.59	15.82	15.00	16.18	16.58
	8H	13.43	14.60	13.86	14.99	15.39	14.56	15.73	14.99	16.12	16.52
	12H	13.42	14.54	13.85	14.93	15.35	14.54	15.66	14.97	16.04	16.47
4H	2H	12.21	13.54	12.61	13.89	14.27	13.51	14.84	13.90	15.18	15.56
	3H	13.71	14.81	14.12	15.21	15.61	14.94	16.05	15.35	16.44	16.85
	4H	14.15	15.14	14.59	15.56	16.00	15.20	16.19	15.63	16.60	17.04
	6H	14.38	15.24	14.84	15.68	16.14	15.22	16.08	15.68	16.52	16.98
	8H	14.40	15.20	14.87	15.65	16.11	15.20	16.00	15.66	16.44	16.91
	12H	14.41	15.12	14.89	15.60	16.07	15.18	15.89	15.66	16.37	16.84
8H	4H	14.31	15.11	14.77	15.56	16.02	15.28	16.08	15.74	16.53	16.99
	6H	14.57	15.23	15.07	15.72	16.20	15.31	15.97	15.81	16.46	16.94
	8H	14.61	15.20	15.13	15.71	16.20	15.29	15.88	15.80	16.39	16.87
	12H	14.63	15.15	15.14	15.64	16.21	15.27	15.79	15.78	16.28	16.85
12H	4H	14.29	15.01	14.77	15.49	15.96	15.27	15.98	15.75	16.46	16.93
	6H	14.54	15.13	15.06	15.64	16.13	15.29	15.88	15.80	16.39	16.87
	8H	14.61	15.13	15.12	15.62	16.19	15.29	15.80	15.79	16.30	16.86