

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: P1498429

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

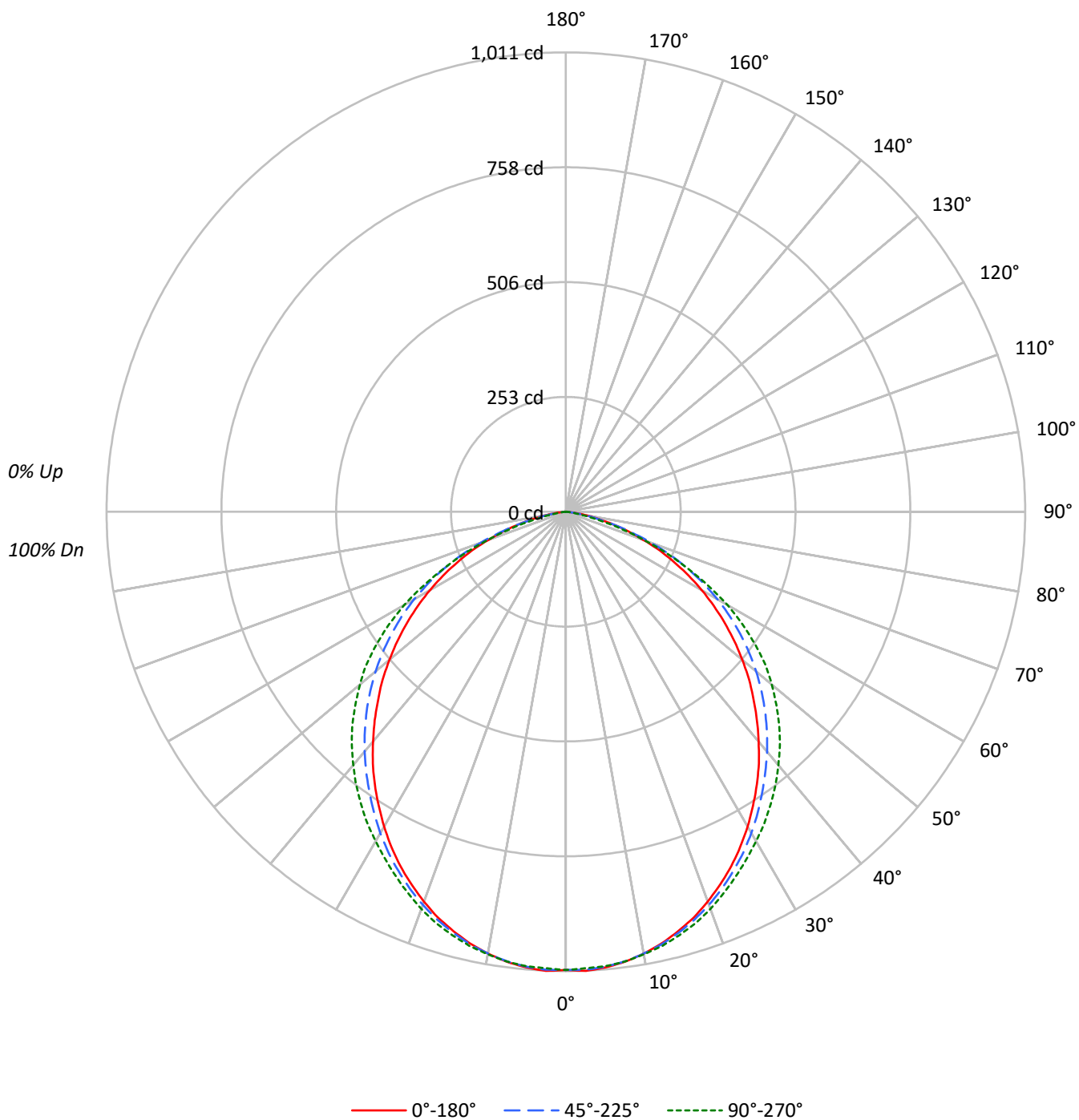
Lumens per Lamp: N/A
Luminaire Lumens: 2546.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.5
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	105	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72
4	84	73	64	58	82	71	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		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2714	2714	2714
5°	2719	2714	2712
10°	2698	2698	2702
15°	2662	2671	2688
20°	2615	2636	2664
25°	2556	2590	2629
30°	2486	2537	2601
35°	2408	2475	2581
40°	2318	2420	2557
45°	2224	2359	2528
50°	2121	2288	2478
55°	2004	2197	2384
60°	1862	2074	2214
65°	1679	1884	1895
70°	1434	1568	1466
75°	1125	1135	915
80°	731	584	350
85°	340	222	179

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2528 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	3.7
10°-20°	270.2	10.6
20°-30°	401.4	15.8
30°-40°	472.8	18.6
40°-50°	478.9	18.8
50°-60°	416.9	16.4
60°-70°	284.1	11.2
70°-80°	113.6	4.5
80°-90°	13.0	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°	766.8	30.1
0°-40°	1239.6	48.7
0°-60°	2135.4	83.9
0°-90°	2546.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2546.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1009	1009	1009	1009	1009	
5°	1007	1001	1005	1004	1004	95
15°	956	951	959	962	965	269
25°	861	861	872	880	885	396
35°	733	736	754	773	786	458
45°	584	592	620	649	664	451
55°	427	436	468	498	508	382
65°	264	276	296	296	298	261
75°	108	115	109	94	88	117
85°	11	10	7	6	6	17
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1008.6	1008.6	1008.6	1008.6	1008.6
2.5°	1011.4	1004.9	1008.6	1007.9	1005.2
5°	1006.6	1000.7	1004.9	1003.5	1003.8
7.5°	998.7	993.2	997.7	997.3	998.4
10°	987.4	982.0	987.4	987.7	988.8
12.5°	973.3	968.6	975.1	976.4	978.8
15°	955.5	951.4	958.9	962.4	964.8
17.5°	936.4	933.7	941.1	945.6	949.4
20°	913.1	911.7	920.6	925.0	930.2
22.5°	887.7	887.0	897.7	903.1	908.3
25°	861.0	861.4	872.3	879.5	885.4
27.5°	831.5	832.2	845.6	854.2	861.4
30°	800.0	801.8	816.5	828.1	837.1
32.5°	766.8	769.9	785.7	801.8	813.1
35°	732.9	736.4	753.5	773.3	785.7
37.5°	698.0	701.8	721.6	744.9	758.0
40°	660.0	665.8	688.8	714.4	727.8
42.5°	622.6	629.1	654.9	682.9	697.3
45°	584.3	591.5	619.9	649.0	664.4
47.5°	547.3	553.4	583.9	614.4	628.1
50°	506.6	514.7	546.6	577.1	591.8
52.5°	467.5	475.4	507.9	539.0	554.2
55°	427.1	436.3	468.2	497.6	508.2
57.5°	386.4	397.0	427.8	452.1	461.3
60°	345.9	356.5	385.3	404.5	411.3
62.5°	305.1	316.1	341.5	353.1	354.5
65°	263.7	276.1	295.9	296.3	297.6
67.5°	224.4	234.6	249.0	244.9	242.8
70°	182.2	193.5	199.3	191.1	186.3
72.5°	144.9	153.1	152.1	140.0	134.3
75°	108.2	114.8	109.2	93.9	88.0
77.5°	75.0	80.5	69.5	55.1	49.4
80°	47.2	49.7	37.7	26.7	22.6
82.5°	25.4	25.0	16.1	13.3	12.3
85°	11.0	9.9	7.2	6.5	5.8
87.5°	3.8	3.4	2.7	2.4	2.0
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	14.39	15.97	14.75	16.28	16.60	15.35	16.93	15.71	17.24	17.56
	3H	15.81	17.23	16.18	17.55	17.91	16.54	17.96	16.91	18.28	18.64
	4H	16.20	17.53	16.60	17.88	18.26	16.75	18.08	17.15	18.43	18.81
	6H	16.37	17.60	16.79	17.97	18.36	16.77	18.00	17.18	18.37	18.76
	8H	16.39	17.56	16.81	17.95	18.35	16.75	17.92	17.17	18.31	18.71
	12H	16.38	17.50	16.81	17.88	18.31	16.72	17.84	17.15	18.22	18.65
4H	2H	15.05	16.38	15.45	16.73	17.10	15.82	17.15	16.22	17.50	17.88
	3H	16.62	17.73	17.03	18.13	18.53	17.17	18.27	17.58	18.67	19.07
	4H	17.10	18.09	17.53	18.51	18.94	17.44	18.43	17.87	18.84	19.28
	6H	17.34	18.20	17.80	18.64	19.10	17.49	18.35	17.95	18.79	19.25
	8H	17.36	18.17	17.83	18.61	19.08	17.46	18.27	17.93	18.71	19.18
	12H	17.36	18.08	17.84	18.56	19.03	17.44	18.16	17.93	18.64	19.11
8H	4H	17.24	18.04	17.70	18.48	18.95	17.55	18.36	18.01	18.80	19.27
	6H	17.51	18.17	18.01	18.66	19.14	17.61	18.27	18.11	18.76	19.24
	8H	17.55	18.14	18.06	18.65	19.14	17.59	18.18	18.10	18.69	19.18
	12H	17.56	18.08	18.07	18.58	19.14	17.57	18.09	18.08	18.59	19.15
12H	4H	17.22	17.94	17.70	18.41	18.88	17.54	18.26	18.02	18.74	19.21
	6H	17.48	18.07	17.99	18.58	19.07	17.59	18.18	18.10	18.69	19.18
	8H	17.55	18.07	18.05	18.56	19.12	17.59	18.11	18.10	18.60	19.16