

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: P1498420

Luminaire Tested: MAE-G-2-120-2LO-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498420
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-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

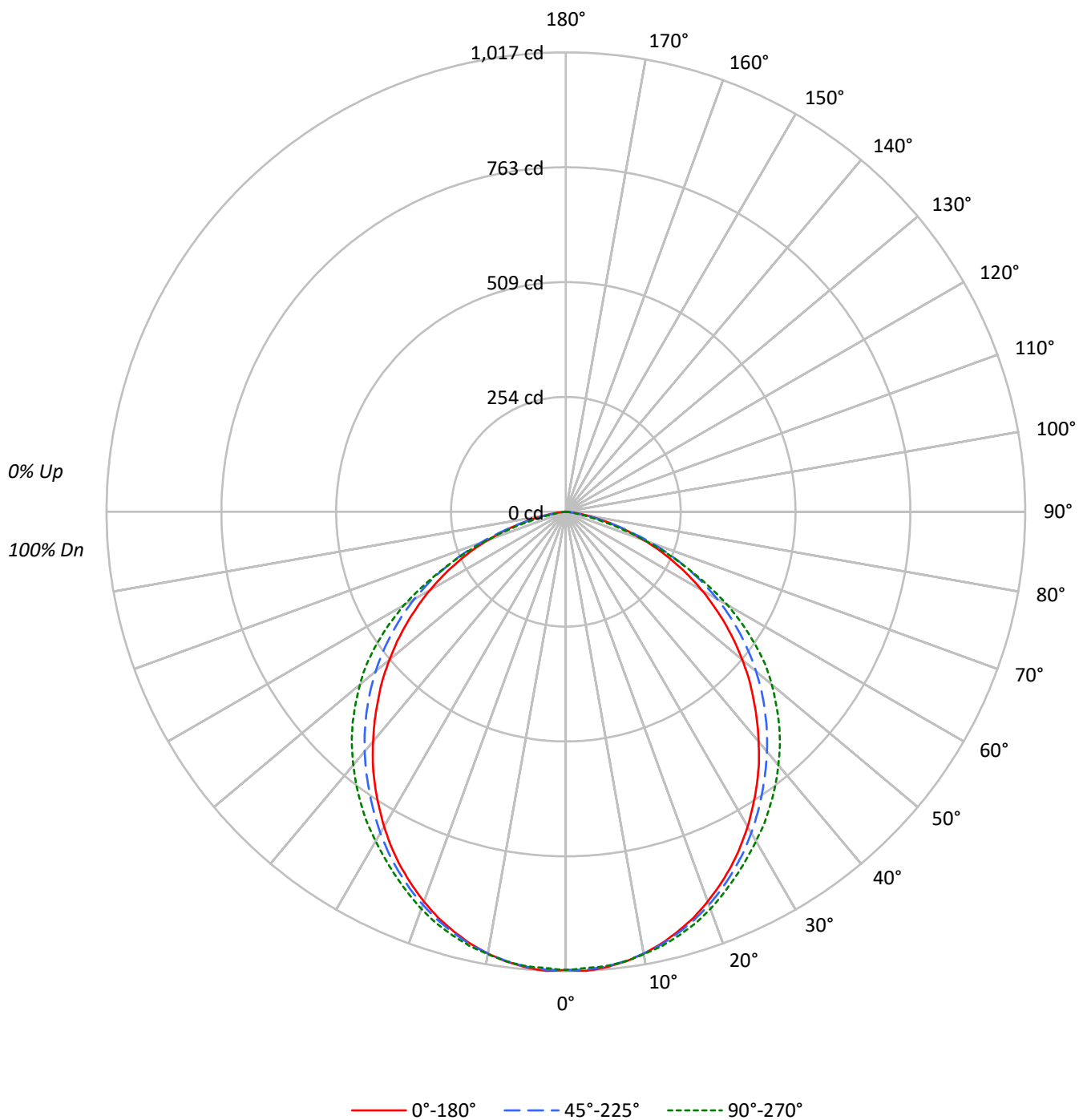
Lumens per Lamp: N/A
Luminaire Lumens: 2561.0 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	2730	2730	2730
5°	2735	2730	2727
10°	2714	2714	2718
15°	2678	2687	2704
20°	2630	2652	2680
25°	2572	2605	2644
30°	2501	2552	2616
35°	2422	2490	2596
40°	2332	2434	2571
45°	2237	2373	2543
50°	2133	2302	2492
55°	2016	2209	2398
60°	1873	2086	2227
65°	1689	1895	1906
70°	1442	1578	1474
75°	1132	1143	921
80°	736	587	353
85°	340	222	182

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2543 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	3.7
10°-20°	271.8	10.6
20°-30°	403.7	15.8
30°-40°	475.5	18.6
40°-50°	481.8	18.8
50°-60°	419.3	16.4
60°-70°	285.7	11.2
70°-80°	114.2	4.5
80°-90°	13.1	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°	771.3	30.1
0°-40°	1246.9	48.7
0°-60°	2148.0	83.9
0°-90°	2561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1014	1014	1014	1014	1014	
5°	1012	1007	1011	1009	1010	96
15°	961	957	965	968	970	271
25°	866	866	878	885	891	398
35°	737	741	758	778	790	461
45°	588	595	624	653	668	454
55°	430	439	471	501	511	384
65°	265	278	298	298	299	263
75°	109	115	110	94	89	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°	1014.5	1014.5	1014.5	1014.5	1014.5
2.5°	1017.4	1010.8	1014.5	1013.9	1011.1
5°	1012.5	1006.6	1010.8	1009.4	1009.7
7.5°	1004.6	999.1	1003.6	1003.2	1004.3
10°	993.2	987.7	993.2	993.5	994.6
12.5°	979.1	974.3	980.8	982.2	984.6
15°	961.2	957.0	964.6	968.1	970.5
17.5°	941.9	939.2	946.7	951.2	955.0
20°	918.4	917.1	926.1	930.5	935.7
22.5°	892.9	892.3	903.0	908.5	913.6
25°	866.1	866.4	877.5	884.7	890.6
27.5°	836.4	837.1	850.6	859.2	866.4
30°	804.8	806.5	821.3	833.0	842.0
32.5°	771.3	774.5	790.3	806.5	817.9
35°	737.2	740.7	757.9	777.9	790.3
37.5°	702.1	705.9	725.9	749.3	762.4
40°	663.9	669.7	692.8	718.6	732.0
42.5°	626.3	632.8	658.7	687.0	701.4
45°	587.8	595.0	623.5	652.9	668.3
47.5°	550.5	556.7	587.4	618.1	631.8
50°	509.6	517.8	549.8	580.5	595.3
52.5°	470.3	478.2	510.9	542.2	557.4
55°	429.6	438.9	470.9	500.6	511.2
57.5°	388.6	399.3	430.3	454.7	464.0
60°	348.0	358.6	387.6	406.8	413.8
62.5°	306.9	318.0	343.5	355.2	356.6
65°	265.3	277.7	297.6	298.0	299.4
67.5°	225.7	236.0	250.4	246.3	244.3
70°	183.3	194.6	200.5	192.3	187.4
72.5°	145.7	154.0	153.0	140.9	135.1
75°	108.9	115.4	109.9	94.4	88.6
77.5°	75.5	80.9	69.9	55.4	49.6
80°	47.5	50.0	37.9	26.9	22.8
82.5°	25.5	25.1	16.2	13.4	12.4
85°	11.0	10.0	7.2	6.5	5.9
87.5°	3.8	3.4	2.7	2.4	2.1
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	14.41	15.99	14.77	16.30	16.62	15.37	16.95	15.73	17.26	17.58
	3H	15.83	17.25	16.20	17.57	17.93	16.56	17.98	16.93	18.30	18.66
	4H	16.22	17.55	16.62	17.90	18.28	16.77	18.10	17.17	18.45	18.83
	6H	16.39	17.62	16.81	17.99	18.38	16.79	18.02	17.20	18.39	18.78
	8H	16.41	17.58	16.83	17.97	18.37	16.77	17.94	17.19	18.33	18.73
	12H	16.40	17.52	16.83	17.90	18.33	16.74	17.86	17.17	18.24	18.67
4H	2H	15.07	16.40	15.47	16.75	17.12	15.84	17.17	16.24	17.52	17.90
	3H	16.64	17.75	17.05	18.15	18.55	17.19	18.29	17.60	18.69	19.09
	4H	17.12	18.11	17.55	18.53	18.96	17.46	18.45	17.89	18.87	19.30
	6H	17.36	18.22	17.82	18.66	19.12	17.51	18.37	17.97	18.81	19.27
	8H	17.38	18.19	17.85	18.63	19.10	17.48	18.29	17.95	18.73	19.20
	12H	17.38	18.10	17.86	18.58	19.05	17.46	18.18	17.95	18.66	19.13
8H	4H	17.26	18.06	17.72	18.50	18.97	17.57	18.38	18.04	18.82	19.29
	6H	17.53	18.19	18.03	18.68	19.16	17.63	18.29	18.13	18.78	19.26
	8H	17.57	18.16	18.08	18.67	19.16	17.61	18.20	18.12	18.71	19.20
	12H	17.58	18.10	18.09	18.60	19.16	17.59	18.11	18.10	18.61	19.17
12H	4H	17.24	17.96	17.72	18.43	18.90	17.56	18.28	18.04	18.76	19.23
	6H	17.50	18.09	18.01	18.60	19.09	17.61	18.20	18.12	18.71	19.20
	8H	17.57	18.09	18.07	18.58	19.14	17.61	18.13	18.12	18.62	19.18