

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: P1498954

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498954
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-4-120-1HI-LO-50-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

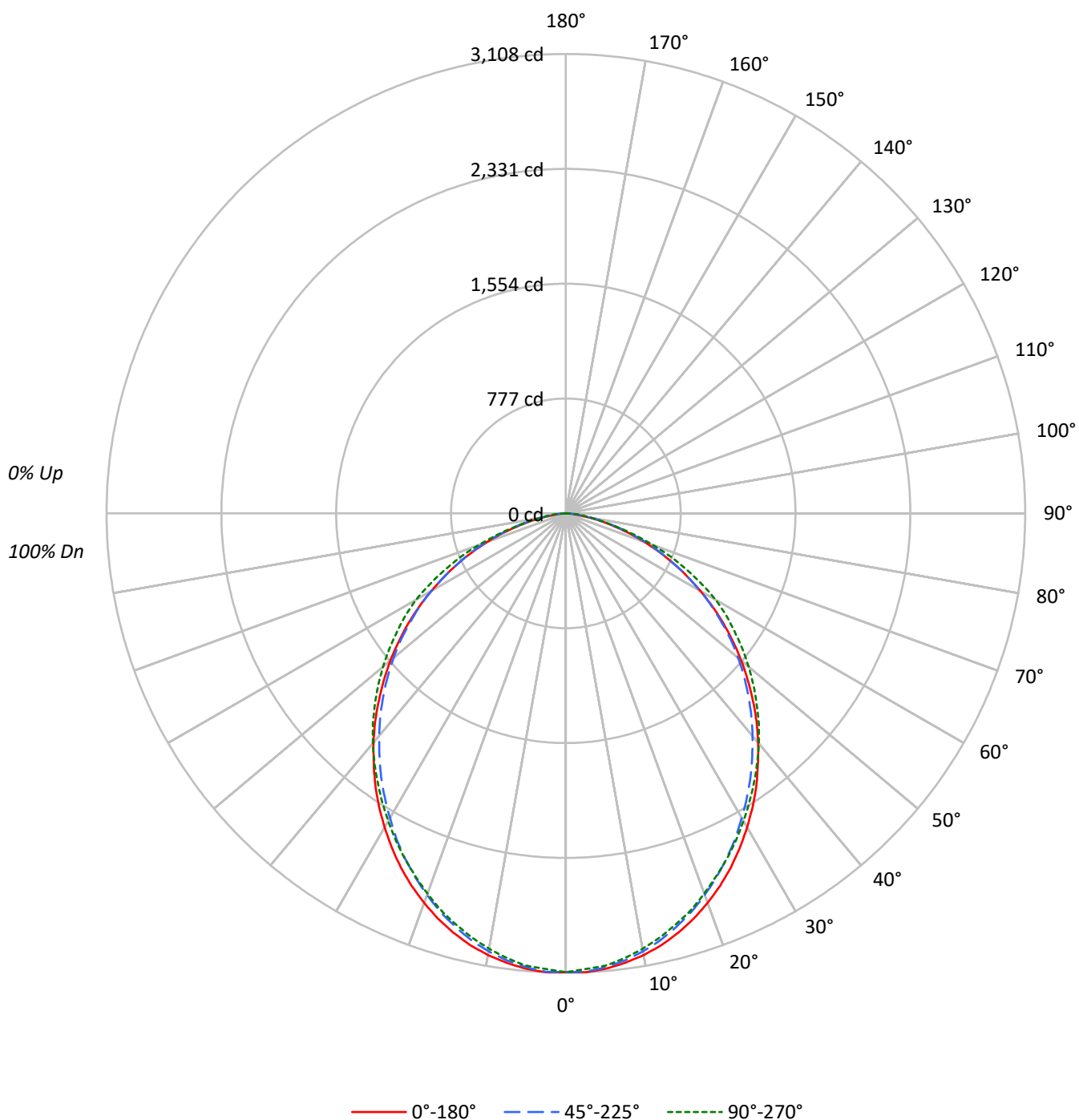
Lumens per Lamp: N/A
Luminaire Lumens: 7511.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4176	4176	4176
5°	4177	4163	4149
10°	4145	4111	4086
15°	4091	4031	4009
20°	4015	3932	3920
25°	3922	3823	3827
30°	3810	3697	3734
35°	3692	3579	3648
40°	3556	3451	3568
45°	3405	3324	3475
50°	3244	3187	3379
55°	3059	3021	3267
60°	2829	2830	3154
65°	2566	2567	2875
70°	2219	2275	2475
75°	1761	1873	1895
80°	1206	1358	1374
85°	667	977	1215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3475 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.7	3.9
10°-20°	816.7	10.9
20°-30°	1192.5	15.9
30°-40°	1379.0	18.4
40°-50°	1371.0	18.3
50°-60°	1177.7	15.7
60°-70°	823.9	11.0
70°-80°	382.3	5.1
80°-90°	76.1	1.0
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°	2301.0	30.6
0°-40°	3680.0	49.0
0°-60°	6228.7	82.9
0°-90°	7511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3104	3104	3104	3104	3104	
5°	3093	3090	3082	3065	3072	293
15°	2937	2925	2894	2871	2878	827
25°	2642	2614	2575	2564	2578	1216
35°	2248	2212	2179	2196	2221	1404
45°	1789	1761	1747	1795	1826	1380
55°	1304	1277	1288	1352	1393	1164
65°	806	786	806	874	903	798
75°	339	331	360	371	365	366
85°	43	51	63	75	79	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3104.0	3104.0	3104.0	3104.0	3104.0
2.5°	3107.8	3109.8	3104.0	3082.9	3085.1
5°	3092.8	3089.7	3082.5	3065.3	3071.8
7.5°	3067.5	3064.2	3051.2	3031.9	3036.3
10°	3034.2	3027.5	3009.1	2985.7	2990.6
12.5°	2991.2	2983.2	2957.8	2933.0	2939.0
15°	2937.0	2925.0	2894.2	2870.7	2877.7
17.5°	2874.7	2862.9	2826.6	2801.5	2814.2
20°	2804.1	2787.1	2746.4	2724.9	2737.6
22.5°	2727.0	2704.9	2663.7	2645.4	2657.7
25°	2642.0	2614.5	2574.9	2563.7	2577.9
27.5°	2549.9	2520.3	2482.2	2474.1	2493.3
30°	2452.1	2421.0	2379.6	2382.7	2403.6
32.5°	2352.3	2319.9	2280.2	2291.9	2312.9
35°	2247.6	2211.7	2178.8	2195.7	2220.8
37.5°	2135.2	2101.9	2070.6	2102.5	2126.9
40°	2024.7	1990.0	1965.0	2003.6	2031.3
42.5°	1909.7	1877.5	1857.5	1900.6	1932.5
45°	1789.2	1760.6	1747.1	1795.3	1826.4
47.5°	1669.1	1640.0	1635.4	1687.3	1722.2
50°	1549.8	1523.1	1522.4	1579.3	1614.2
52.5°	1425.9	1399.9	1407.6	1466.0	1506.4
55°	1303.9	1277.4	1287.9	1351.9	1392.7
57.5°	1178.8	1160.5	1171.2	1239.4	1287.7
60°	1051.3	1032.4	1051.7	1128.9	1171.9
62.5°	927.8	908.6	927.2	1010.0	1036.8
65°	805.9	786.1	806.4	873.7	903.1
67.5°	686.9	667.4	695.3	753.9	771.6
70°	564.0	547.3	578.2	624.1	629.1
72.5°	450.1	435.0	469.3	495.1	491.9
75°	338.7	330.8	360.3	371.2	364.6
77.5°	241.7	237.5	260.9	263.4	257.4
80°	155.7	159.4	175.3	175.1	177.3
82.5°	90.3	96.8	108.2	122.3	124.6
85°	43.2	51.1	63.3	74.7	78.7
87.5°	15.2	20.5	25.9	28.5	27.8
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	15.72	17.30	16.09	17.62	17.93	16.22	17.80	16.58	18.11	18.43
	3H	17.15	18.57	17.52	18.90	19.26	17.77	19.19	18.14	19.52	19.88
	4H	17.56	18.90	17.96	19.25	19.62	18.19	19.52	18.59	19.87	20.25
	6H	17.77	19.01	18.18	19.37	19.76	18.39	19.63	18.81	19.99	20.39
	8H	17.80	18.98	18.23	19.37	19.77	18.45	19.62	18.87	20.01	20.41
	12H	17.80	18.93	18.23	19.31	19.74	18.48	19.61	18.91	19.99	20.42
4H	2H	16.27	17.60	16.67	17.95	18.33	16.68	18.01	17.07	18.36	18.74
	3H	17.87	18.99	18.28	19.38	19.78	18.42	19.53	18.83	19.93	20.33
	4H	18.37	19.37	18.80	19.79	20.22	18.94	19.94	19.37	20.36	20.79
	6H	18.66	19.53	19.11	19.97	20.43	19.23	20.10	19.69	20.55	21.00
	8H	18.70	19.52	19.17	19.96	20.43	19.31	20.12	19.77	20.57	21.03
	12H	18.72	19.45	19.20	19.93	20.40	19.37	20.10	19.85	20.58	21.05
8H	4H	18.58	19.39	19.04	19.84	20.30	19.10	19.91	19.56	20.36	20.82
	6H	18.92	19.60	19.42	20.09	20.56	19.45	20.13	19.95	20.61	21.09
	8H	19.00	19.60	19.51	20.11	20.60	19.57	20.17	20.08	20.68	21.17
	12H	19.05	19.58	19.56	20.07	20.63	19.68	20.21	20.19	20.70	21.26
12H	4H	18.58	19.31	19.07	19.79	20.26	19.10	19.82	19.58	20.30	20.77
	6H	18.93	19.53	19.44	20.04	20.53	19.45	20.05	19.96	20.56	21.05
	8H	19.05	19.58	19.56	20.07	20.63	19.61	20.14	20.12	20.63	21.19