

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: P1499575

Luminaire Tested: MAE-G-4-120-3LO-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-3LO-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

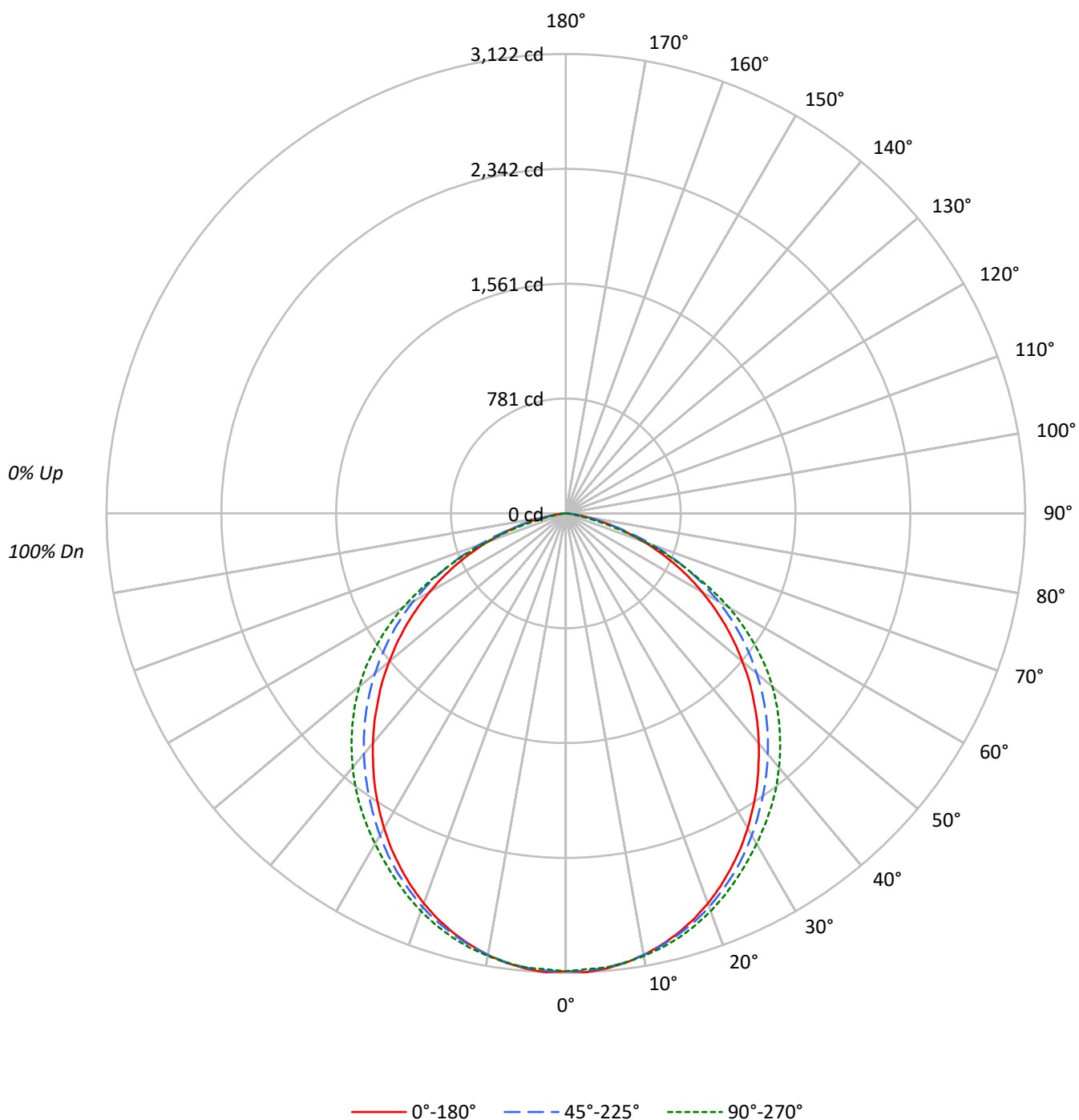
Lumens per Lamp: N/A
Luminaire Lumens: 7886.0 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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	96	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	57	69	62	57		67	61	56		65
5	78	65	56	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	44	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	36	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°	4186	4186	4186
5°	4196	4187	4185
10°	4165	4163	4172
15°	4111	4125	4155
20°	4040	4077	4119
25°	3946	4009	4072
30°	3839	3927	4029
35°	3719	3837	3999
40°	3583	3750	3959
45°	3437	3658	3908
50°	3278	3545	3839
55°	3102	3407	3691
60°	2879	3219	3444
65°	2599	2936	2950
70°	2219	2465	2293
75°	1743	1799	1410
80°	1137	925	545
85°	545	366	290

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3908 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.9	3.7
10°-20°	834.4	10.6
20°-30°	1241.0	15.7
30°-40°	1462.4	18.5
40°-50°	1482.7	18.8
50°-60°	1292.0	16.4
60°-70°	883.6	11.2
70°-80°	354.9	4.5
80°-90°	41.2	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°	2369.3	30.0
0°-40°	3831.7	48.6
0°-60°	6606.3	83.8
0°-90°	7886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3111	3111	3111	3111	3111	
5°	3106	3088	3100	3096	3098	295
15°	2952	2939	2961	2973	2983	832
25°	2658	2659	2701	2720	2743	1224
35°	2264	2274	2336	2393	2434	1414
45°	1806	1831	1922	2009	2054	1394
55°	1322	1350	1452	1544	1573	1180
65°	816	853	922	929	926	807
75°	335	358	346	297	271	360
85°	35	32	24	21	19	54
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3111.4	3111.4	3111.4	3111.4	3111.4
2.5°	3121.5	3100.6	3111.4	3109.2	3101.3
5°	3106.4	3087.6	3099.8	3096.3	3098.4
7.5°	3081.9	3064.7	3077.6	3076.9	3080.4
10°	3048.2	3030.8	3046.7	3049.6	3053.9
12.5°	3003.5	2989.2	3008.6	3014.3	3022.9
15°	2951.6	2938.8	2961.0	2973.3	2982.7
17.5°	2891.2	2880.4	2909.2	2920.8	2933.7
20°	2821.4	2813.6	2847.3	2858.1	2876.9
22.5°	2743.8	2739.5	2774.7	2791.2	2812.8
25°	2658.1	2658.9	2700.6	2720.1	2743.0
27.5°	2568.3	2569.7	2617.3	2644.4	2668.9
30°	2471.1	2475.4	2527.3	2561.1	2593.4
32.5°	2368.2	2376.8	2433.0	2479.1	2515.0
35°	2263.9	2274.0	2336.0	2393.4	2434.4
37.5°	2151.0	2167.6	2237.4	2305.8	2348.1
40°	2040.2	2056.8	2135.1	2210.7	2253.9
42.5°	1925.9	1946.7	2030.2	2114.3	2156.0
45°	1806.5	1830.8	1922.2	2008.6	2053.9
47.5°	1692.0	1713.6	1810.0	1900.0	1946.7
50°	1566.1	1593.4	1693.4	1787.7	1833.8
52.5°	1446.0	1471.1	1574.0	1670.5	1712.2
55°	1322.3	1350.3	1452.5	1543.8	1573.4
57.5°	1195.6	1229.4	1328.0	1404.3	1432.3
60°	1069.8	1103.5	1196.4	1259.0	1279.8
62.5°	944.5	980.6	1061.8	1103.5	1103.5
65°	816.5	853.2	922.2	929.4	926.5
67.5°	688.5	725.2	777.7	764.7	756.1
70°	564.0	595.6	626.6	602.8	582.8
72.5°	443.2	473.4	478.5	443.9	418.7
75°	335.2	357.6	346.0	297.2	271.3
77.5°	233.7	246.8	222.3	172.7	151.9
80°	146.8	152.5	119.4	84.1	70.4
82.5°	79.2	79.8	51.8	42.5	39.6
85°	35.3	31.6	23.7	20.8	18.8
87.5°	12.2	10.8	8.6	8.0	6.5
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	15.90	17.48	16.27	17.80	18.11	16.88	18.47	17.25	18.78	19.10
	3H	17.31	18.73	17.69	19.06	19.42	18.09	19.51	18.47	19.84	20.20
	4H	17.70	19.04	18.10	19.39	19.76	18.31	19.64	18.70	19.99	20.36
	6H	17.88	19.11	18.29	19.48	19.87	18.32	19.55	18.73	19.92	20.31
	8H	17.89	19.07	18.32	19.46	19.86	18.30	19.47	18.72	19.86	20.26
	12H	17.89	19.01	18.31	19.39	19.82	18.27	19.40	18.70	19.78	20.21
4H	2H	16.57	17.91	16.97	18.25	18.63	17.36	18.70	17.76	19.04	19.42
	3H	18.14	19.25	18.55	19.64	20.05	18.73	19.84	19.14	20.24	20.64
	4H	18.62	19.61	19.05	20.02	20.46	19.00	20.00	19.44	20.41	20.85
	6H	18.86	19.72	19.31	20.16	20.62	19.06	19.92	19.51	20.36	20.82
	8H	18.88	19.68	19.34	20.13	20.59	19.03	19.84	19.49	20.28	20.75
	12H	18.88	19.60	19.36	20.08	20.55	19.01	19.73	19.49	20.21	20.68
8H	4H	18.76	19.57	19.22	20.01	20.48	19.12	19.93	19.58	20.37	20.84
	6H	19.04	19.70	19.53	20.19	20.67	19.18	19.84	19.68	20.33	20.81
	8H	19.08	19.67	19.59	20.18	20.67	19.16	19.75	19.67	20.26	20.75
	12H	19.09	19.61	19.60	20.11	20.67	19.15	19.67	19.65	20.16	20.72
12H	4H	18.74	19.46	19.23	19.94	20.41	19.11	19.83	19.59	20.31	20.78
	6H	19.01	19.60	19.52	20.11	20.60	19.16	19.75	19.67	20.26	20.75
	8H	19.07	19.59	19.58	20.09	20.65	19.16	19.68	19.67	20.17	20.74