

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: P1498654

Luminaire Tested: MAE-G-2-120-3HI-LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498654
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-2-120-3HI-LO-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

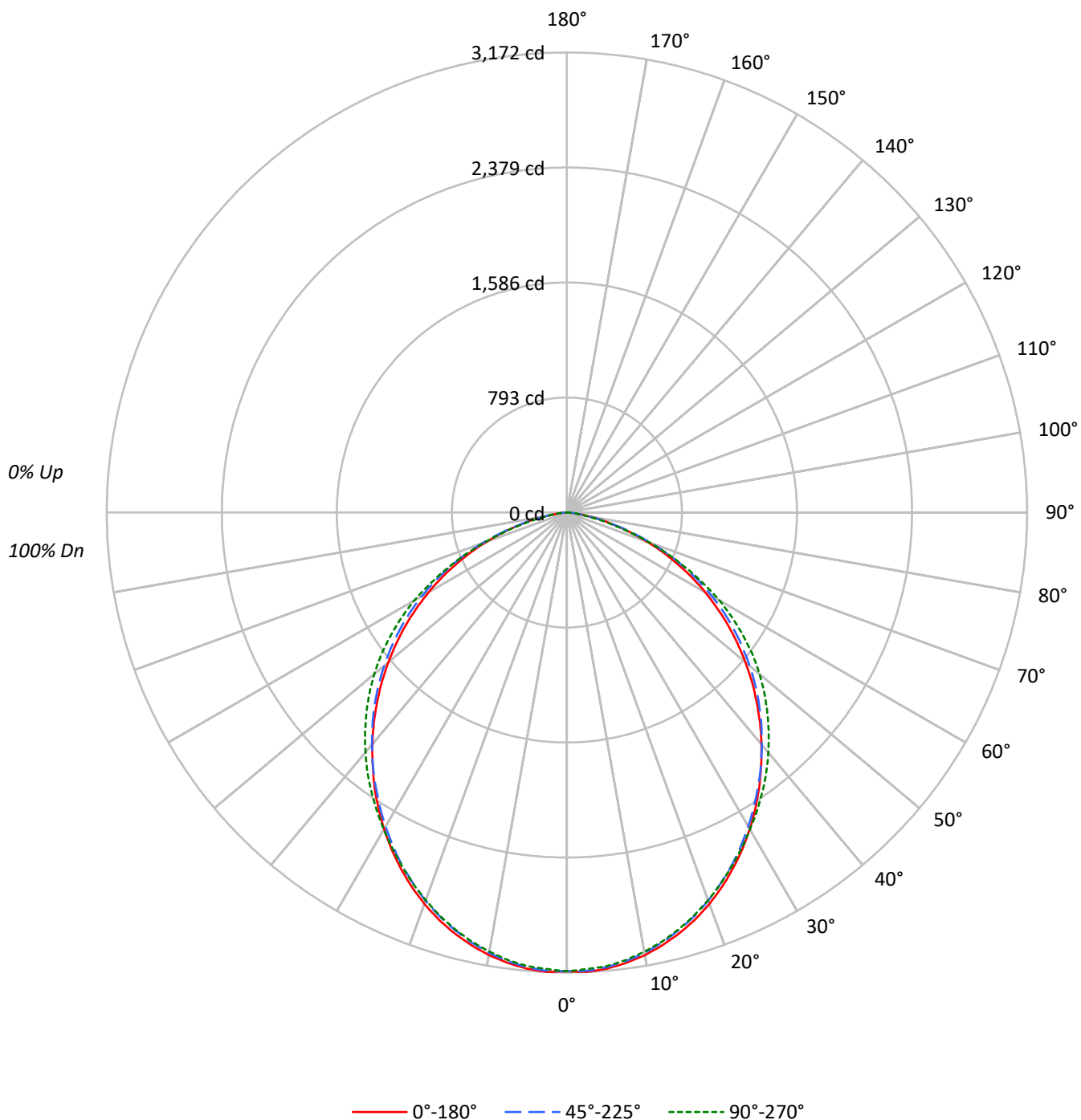
Lumens per Lamp: N/A
Luminaire Lumens: 7847.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 92.3
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	101	98	107	103	99	96	99	96	93		95	93	90		91
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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	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	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°	8512	8512	8512
5°	8528	8503	8482
10°	8468	8426	8401
15°	8364	8305	8289
20°	8224	8157	8148
25°	8041	7976	7989
30°	7832	7769	7842
35°	7595	7554	7720
40°	7328	7346	7588
45°	7038	7131	7438
50°	6722	6882	7255
55°	6367	6592	6962
60°	5925	6213	6544
65°	5373	5684	5781
70°	4617	4890	4768
75°	3657	3795	3396
80°	2442	2346	2005
85°	1232	1352	1556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7438 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.1	3.8
10°-20°	839.9	10.7
20°-30°	1237.8	15.8
30°-40°	1445.9	18.4
40°-50°	1453.8	18.5
50°-60°	1259.3	16.0
60°-70°	872.0	11.1
70°-80°	379.9	4.8
80°-90°	60.2	0.8
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°	2375.8	30.3
0°-40°	3821.7	48.7
0°-60°	6534.9	83.3
0°-90°	7847.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7847.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3163	3163	3163	3163	3163	
5°	3157	3142	3148	3136	3140	299
15°	3002	2985	2981	2969	2975	846
25°	2708	2691	2686	2677	2691	1247
35°	2312	2294	2300	2323	2350	1444
45°	1849	1841	1874	1924	1954	1427
55°	1357	1354	1405	1464	1484	1211
65°	844	852	893	906	908	834
75°	352	360	365	341	327	378
85°	40	41	44	49	50	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3163.1	3163.1	3163.1	3163.1	3163.1
2.5°	3171.6	3156.3	3163.1	3154.2	3150.4
5°	3157.1	3142.1	3147.9	3136.2	3139.9
7.5°	3132.4	3117.2	3120.5	3108.8	3112.6
10°	3098.9	3081.8	3083.5	3071.0	3074.4
12.5°	3054.3	3037.7	3037.2	3023.7	3029.7
15°	3002.2	2984.6	2980.9	2969.4	2975.4
17.5°	2941.6	2923.2	2919.2	2905.1	2914.2
20°	2871.9	2853.2	2848.3	2832.9	2845.2
22.5°	2794.1	2775.4	2768.9	2757.0	2770.2
25°	2708.3	2690.8	2686.3	2676.7	2690.7
27.5°	2618.1	2598.8	2595.9	2592.7	2607.7
30°	2520.5	2501.4	2500.2	2502.9	2523.7
32.5°	2417.4	2399.7	2401.5	2414.4	2438.2
35°	2312.0	2293.6	2299.6	2322.8	2350.1
37.5°	2198.4	2185.1	2196.8	2230.0	2258.0
40°	2086.0	2072.0	2091.2	2131.0	2160.1
42.5°	1969.9	1959.2	1983.8	2031.3	2058.8
45°	1849.4	1840.9	1873.8	1924.4	1954.4
47.5°	1731.8	1722.3	1760.9	1815.1	1846.9
50°	1605.7	1600.5	1644.0	1703.0	1733.0
52.5°	1481.6	1476.4	1525.4	1586.7	1614.9
55°	1357.1	1353.9	1405.0	1463.9	1484.0
57.5°	1228.6	1231.7	1282.6	1333.2	1353.5
60°	1100.9	1104.8	1154.4	1199.0	1216.0
62.5°	973.0	979.9	1025.1	1058.8	1062.5
65°	843.9	852.1	892.6	906.4	907.9
67.5°	713.7	724.7	758.7	761.1	758.4
70°	586.8	595.3	621.5	616.5	606.0
72.5°	463.5	474.3	487.2	474.7	459.7
75°	351.7	360.1	365.0	341.4	326.6
77.5°	247.4	252.9	249.7	224.9	214.2
80°	157.6	162.7	151.4	136.4	129.4
82.5°	87.2	91.1	81.5	84.0	85.5
85°	39.9	41.1	43.8	48.7	50.4
87.5°	13.7	15.3	17.6	18.5	17.0
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	18.37	19.95	18.73	20.27	20.58	18.94	20.53	19.31	20.84	21.16
	3H	19.81	21.23	20.18	21.56	21.92	20.29	21.72	20.67	22.04	22.40
	4H	20.22	21.55	20.62	21.90	22.28	20.61	21.95	21.01	22.30	22.67
	6H	20.41	21.65	20.82	22.01	22.40	20.72	21.96	21.13	22.32	22.71
	8H	20.43	21.61	20.86	22.00	22.40	20.73	21.91	21.16	22.30	22.70
	12H	20.43	21.56	20.86	21.94	22.37	20.73	21.85	21.16	22.24	22.67
4H	2H	18.98	20.32	19.38	20.66	21.04	19.44	20.78	19.84	21.13	21.51
	3H	20.59	21.70	21.00	22.10	22.50	20.97	22.08	21.38	22.48	22.88
	4H	21.08	22.08	21.51	22.50	22.93	21.37	22.37	21.80	22.78	23.22
	6H	21.35	22.21	21.80	22.66	23.11	21.53	22.40	21.99	22.84	23.30
	8H	21.38	22.19	21.84	22.64	23.10	21.55	22.36	22.02	22.81	23.27
	12H	21.39	22.11	21.87	22.59	23.06	21.57	22.29	22.05	22.77	23.24
8H	4H	21.25	22.06	21.72	22.51	22.97	21.52	22.33	21.98	22.77	23.24
	6H	21.57	22.23	22.06	22.72	23.20	21.72	22.39	22.21	22.88	23.35
	8H	21.62	22.22	22.14	22.73	23.22	21.75	22.35	22.27	22.86	23.35
	12H	21.65	22.18	22.16	22.67	23.23	21.79	22.32	22.30	22.81	23.37
12H	4H	21.25	21.97	21.73	22.45	22.92	21.51	22.23	21.99	22.71	23.18
	6H	21.55	22.15	22.06	22.66	23.15	21.71	22.30	22.22	22.81	23.30
	8H	21.64	22.17	22.15	22.66	23.22	21.77	22.30	22.28	22.79	23.35