

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: P1498663

Luminaire Tested: MAE-G-2-120-3HI-LO-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498663
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-40-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

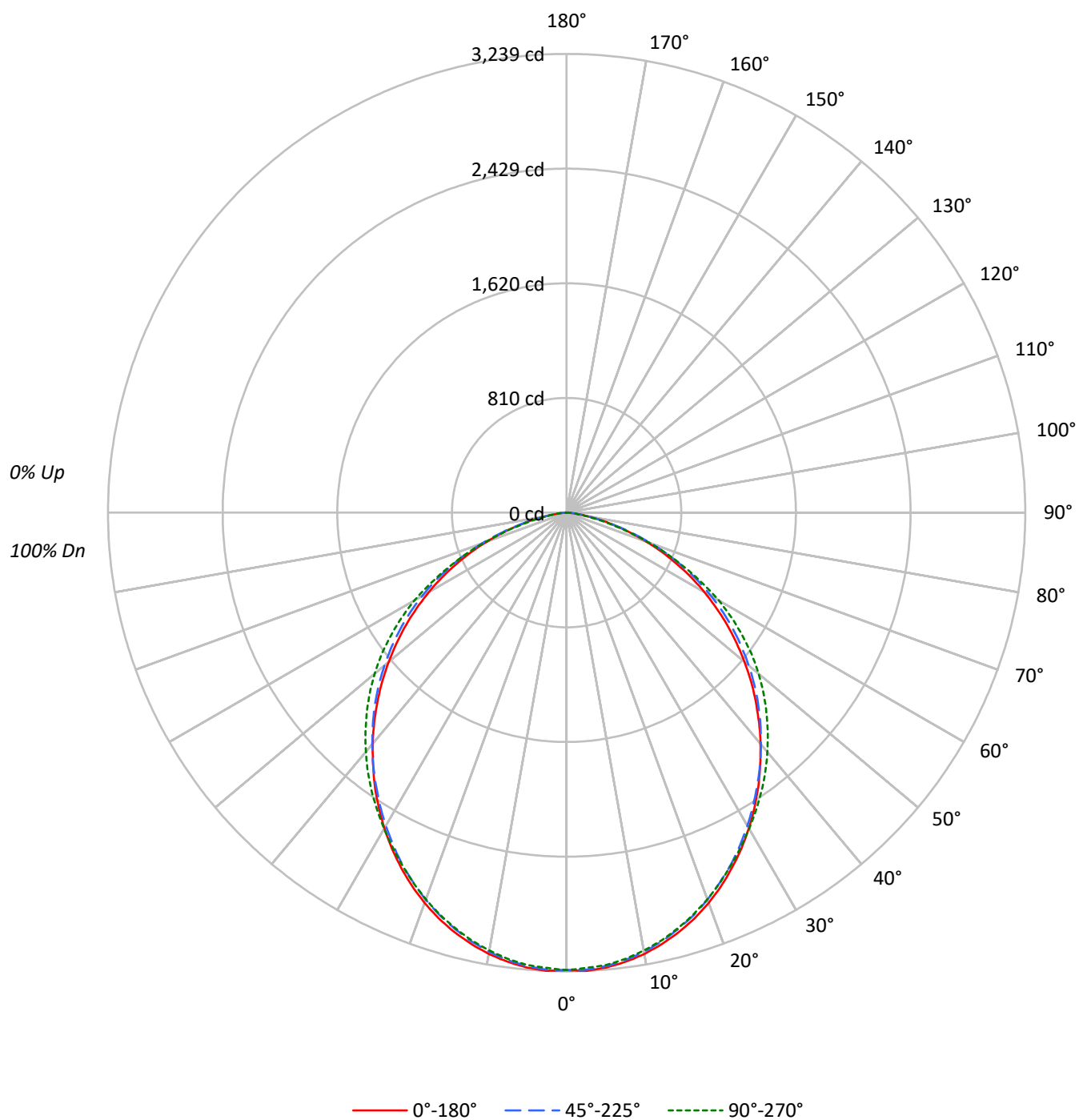
Lumens per Lamp: N/A
Luminaire Lumens: 8013.0 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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	93	90	91	89	88	88	88	86
2	100	93	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	62
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	75	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	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8692	8692	8692
5°	8708	8683	8661
10°	8647	8604	8578
15°	8540	8480	8464
20°	8398	8329	8320
25°	8211	8145	8158
30°	7998	7933	8008
35°	7756	7714	7884
40°	7483	7502	7749
45°	7187	7282	7595
50°	6864	7029	7409
55°	6502	6731	7110
60°	6050	6344	6683
65°	5487	5804	5903
70°	4714	4995	4868
75°	3734	3876	3467
80°	2493	2396	2047
85°	1257	1380	1590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7595 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.4	3.8
10°-20°	857.7	10.7
20°-30°	1264.0	15.8
30°-40°	1476.5	18.4
40°-50°	1484.6	18.5
50°-60°	1286.0	16.0
60°-70°	890.5	11.1
70°-80°	388.0	4.8
80°-90°	61.4	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°	2426.0	30.3
0°-40°	3902.5	48.7
0°-60°	6673.1	83.3
0°-90°	8013.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8013.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3230	3230	3230	3230	3230	
5°	3224	3208	3214	3203	3206	306
15°	3066	3048	3044	3032	3038	864
25°	2766	2748	2743	2733	2748	1273
35°	2361	2342	2348	2372	2400	1475
45°	1888	1880	1913	1965	1996	1457
55°	1386	1382	1435	1495	1515	1237
65°	862	870	912	926	927	852
75°	359	368	373	349	334	386
85°	41	42	45	50	52	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3229.9	3229.9	3229.9	3229.9	3229.9
2.5°	3238.7	3223.1	3229.9	3220.9	3217.0
5°	3223.8	3208.5	3214.5	3202.6	3206.3
7.5°	3198.7	3183.1	3186.6	3174.5	3178.4
10°	3164.4	3147.1	3148.7	3136.0	3139.4
12.5°	3118.9	3101.9	3101.4	3087.6	3093.8
15°	3065.6	3047.7	3043.9	3032.2	3038.2
17.5°	3003.8	2985.0	2981.0	2966.5	2975.8
20°	2932.6	2913.5	2908.5	2892.8	2905.4
22.5°	2853.2	2834.1	2827.5	2815.3	2828.8
25°	2765.5	2747.8	2743.2	2733.4	2747.5
27.5°	2673.5	2653.8	2650.8	2647.5	2663.0
30°	2573.8	2554.3	2553.0	2555.8	2577.1
32.5°	2468.6	2450.5	2452.3	2465.5	2489.8
35°	2360.9	2342.0	2348.2	2372.0	2399.9
37.5°	2244.8	2231.3	2243.3	2277.2	2305.8
40°	2130.2	2115.9	2135.5	2176.0	2205.8
42.5°	2011.6	2000.7	2025.8	2074.3	2102.5
45°	1888.5	1879.9	1913.4	1965.1	1995.7
47.5°	1768.4	1758.6	1798.2	1853.6	1886.0
50°	1639.6	1634.4	1678.9	1739.0	1769.7
52.5°	1513.0	1507.7	1557.6	1620.3	1649.1
55°	1385.8	1382.5	1434.8	1494.9	1515.4
57.5°	1254.6	1257.7	1309.8	1361.4	1382.1
60°	1124.1	1128.1	1178.8	1224.4	1241.7
62.5°	993.6	1000.6	1046.9	1081.2	1085.0
65°	861.7	870.2	911.5	925.6	927.1
67.5°	728.7	740.0	774.7	777.2	774.4
70°	599.2	607.9	634.8	629.6	618.7
72.5°	473.4	484.2	497.4	484.8	469.4
75°	359.1	367.7	372.8	348.6	333.5
77.5°	252.7	258.3	254.9	229.5	218.8
80°	160.9	166.2	154.6	139.3	132.1
82.5°	89.0	93.0	83.2	85.8	87.3
85°	40.7	42.0	44.7	49.7	51.5
87.5°	13.9	15.5	18.0	18.9	17.3
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	18.44	20.03	18.81	20.34	20.65	19.02	20.60	19.38	20.91	21.23
	3H	19.88	21.30	20.26	21.63	21.99	20.37	21.79	20.74	22.12	22.48
	4H	20.29	21.63	20.69	21.98	22.35	20.69	22.02	21.08	22.37	22.75
	6H	20.48	21.72	20.90	22.08	22.48	20.79	22.03	21.21	22.39	22.79
	8H	20.51	21.68	20.93	22.07	22.47	20.80	21.98	21.23	22.37	22.77
	12H	20.50	21.63	20.93	22.01	22.44	20.80	21.93	21.23	22.31	22.74
4H	2H	19.05	20.39	19.45	20.74	21.11	19.52	20.85	19.92	21.20	21.58
	3H	20.66	21.77	21.07	22.17	22.57	21.04	22.15	21.45	22.55	22.95
	4H	21.16	22.15	21.59	22.57	23.01	21.44	22.44	21.87	22.85	23.29
	6H	21.42	22.29	21.88	22.73	23.19	21.61	22.47	22.06	22.92	23.37
	8H	21.45	22.26	21.92	22.71	23.17	21.63	22.44	22.09	22.88	23.35
	12H	21.46	22.19	21.94	22.66	23.13	21.64	22.36	22.12	22.84	23.31
8H	4H	21.33	22.14	21.79	22.58	23.05	21.59	22.40	22.05	22.84	23.31
	6H	21.64	22.31	22.13	22.80	23.27	21.79	22.46	22.29	22.95	23.42
	8H	21.70	22.29	22.21	22.80	23.29	21.83	22.42	22.34	22.93	23.42
	12H	21.72	22.25	22.23	22.74	23.30	21.86	22.39	22.37	22.88	23.44
12H	4H	21.32	22.04	21.80	22.52	22.99	21.58	22.31	22.06	22.78	23.25
	6H	21.62	22.22	22.14	22.73	23.22	21.78	22.38	22.29	22.89	23.37
	8H	21.71	22.24	22.22	22.73	23.29	21.85	22.37	22.35	22.86	23.43