

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: P1498672

Luminaire Tested: MAE-G-2-120-3HI-STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498672
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-STD-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

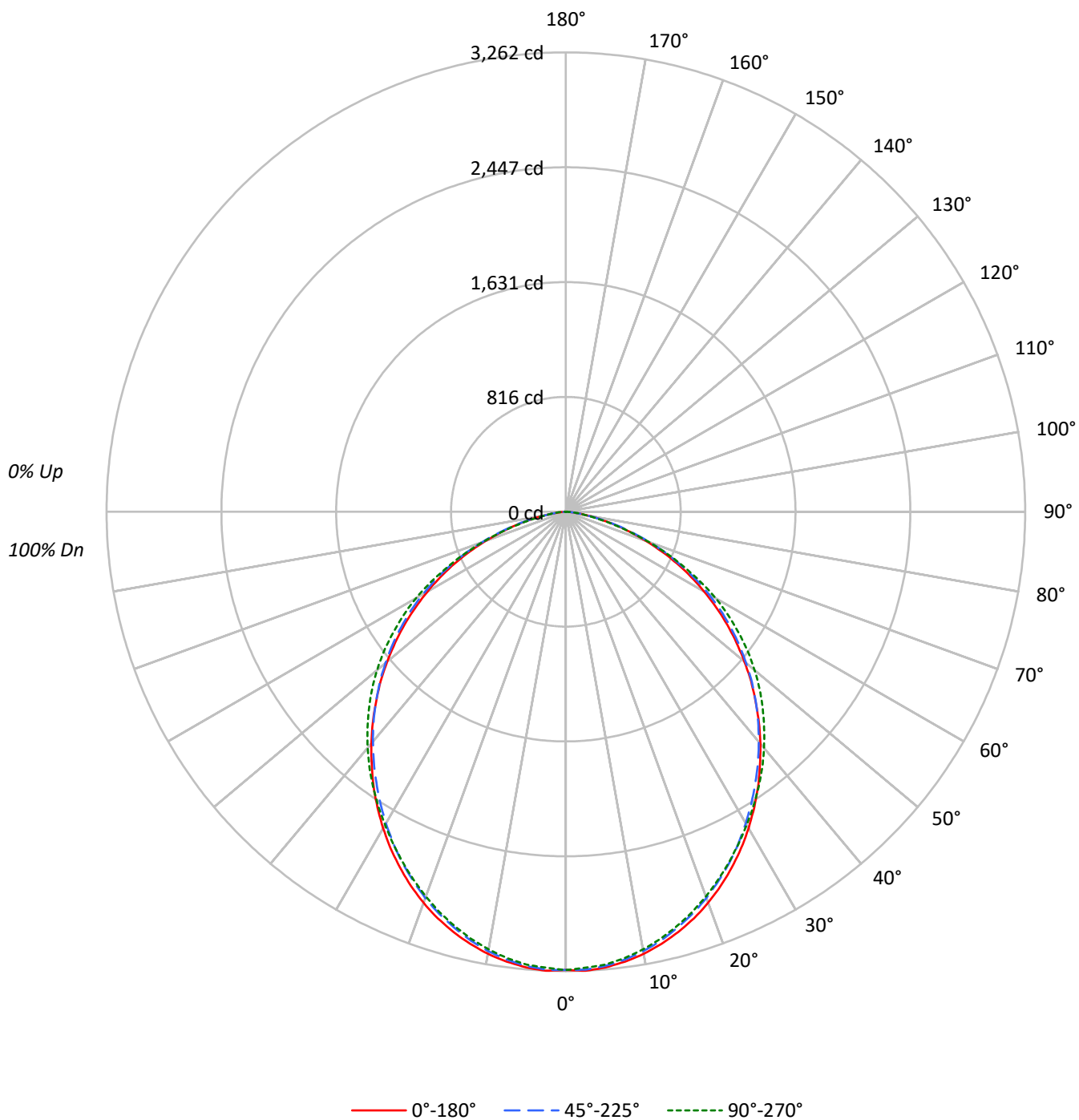
Lumens per Lamp: N/A
Luminaire Lumens: 8030.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	93	90		91	89	88	86
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	40
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48	42	38	36
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44	38	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8756	8756	8756
5°	8772	8745	8718
10°	8711	8658	8622
15°	8605	8523	8488
20°	8463	8358	8325
25°	8277	8162	8146
30°	8063	7938	7980
35°	7821	7710	7840
40°	7549	7487	7691
45°	7252	7259	7524
50°	6929	7000	7327
55°	6565	6698	7028
60°	6112	6308	6618
65°	5550	5775	5893
70°	4776	5000	4931
75°	3791	3938	3624
80°	2543	2529	2286
85°	1300	1541	1843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7524 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	3.8
10°-20°	862.0	10.7
20°-30°	1267.4	15.8
30°-40°	1477.3	18.4
40°-50°	1482.3	18.5
50°-60°	1282.0	16.0
60°-70°	890.5	11.1
70°-80°	395.6	4.9
80°-90°	66.5	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°	2435.8	30.3
0°-40°	3913.1	48.7
0°-60°	6677.4	83.2
0°-90°	8030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3254	3254	3254	3254	3254	
5°	3248	3233	3237	3223	3228	308
15°	3089	3070	3059	3041	3047	870
25°	2788	2765	2749	2732	2744	1283
35°	2381	2355	2347	2362	2387	1488
45°	1906	1889	1908	1950	1977	1470
55°	1399	1388	1428	1480	1498	1249
65°	872	873	907	923	926	861
75°	365	370	379	361	349	392
85°	42	45	50	57	60	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3253.9	3253.9	3253.9	3253.9	3253.9
2.5°	3262.3	3248.0	3253.9	3243.1	3240.2
5°	3247.5	3233.1	3237.4	3223.4	3227.5
7.5°	3222.3	3207.2	3208.2	3193.3	3197.2
10°	3187.9	3170.5	3168.6	3151.9	3155.2
12.5°	3142.3	3124.7	3119.1	3100.3	3105.9
15°	3088.7	3069.6	3059.2	3041.4	3046.6
17.5°	3026.6	3005.8	2993.5	2972.5	2980.9
20°	2955.2	2933.3	2918.5	2896.1	2907.1
22.5°	2875.4	2852.7	2835.4	2816.1	2827.4
25°	2787.6	2765.0	2748.8	2731.6	2743.5
27.5°	2695.1	2670.1	2654.3	2643.2	2656.3
30°	2595.0	2569.5	2554.8	2549.6	2568.1
32.5°	2489.3	2464.6	2452.5	2457.4	2478.6
35°	2380.9	2354.9	2346.9	2362.0	2386.6
37.5°	2264.3	2243.3	2240.5	2265.6	2290.6
40°	2148.9	2126.8	2131.4	2163.1	2189.5
42.5°	2029.5	2010.6	2020.8	2060.3	2084.8
45°	1905.7	1888.8	1907.5	1950.3	1977.2
47.5°	1784.5	1766.7	1791.8	1838.2	1867.1
50°	1655.2	1641.6	1672.0	1723.4	1750.1
52.5°	1527.1	1514.1	1550.6	1604.5	1629.9
55°	1399.3	1388.0	1427.6	1479.6	1497.9
57.5°	1267.2	1262.5	1302.6	1348.0	1366.8
60°	1135.7	1132.1	1172.1	1213.2	1229.7
62.5°	1004.2	1003.7	1041.0	1073.4	1078.2
65°	871.6	872.8	907.0	922.9	925.5
67.5°	737.6	742.3	772.5	778.8	777.6
70°	607.0	609.7	635.5	635.1	626.7
72.5°	480.1	486.1	501.3	494.2	481.4
75°	364.6	369.6	378.8	361.0	348.6
77.5°	257.0	260.7	262.7	243.5	235.3
80°	164.1	169.3	163.2	153.0	147.5
82.5°	91.4	96.2	91.0	96.5	99.2
85°	42.1	44.6	49.9	56.9	59.7
87.5°	14.4	16.8	20.3	21.6	20.1
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	18.47	20.05	18.83	20.37	20.68	18.94	20.52	19.30	20.84	21.15
	3H	19.91	21.34	20.29	21.66	22.02	20.33	21.75	20.70	22.08	22.44
	4H	20.33	21.67	20.73	22.01	22.39	20.68	22.01	21.07	22.36	22.74
	6H	20.53	21.76	20.94	22.13	22.52	20.81	22.05	21.22	22.41	22.80
	8H	20.55	21.73	20.98	22.12	22.52	20.83	22.01	21.26	22.40	22.80
	12H	20.55	21.67	20.98	22.06	22.49	20.84	21.96	21.27	22.35	22.78
4H	2H	19.06	20.40	19.46	20.75	21.13	19.44	20.78	19.84	21.13	21.51
	3H	20.68	21.79	21.09	22.19	22.59	21.01	22.13	21.42	22.52	22.92
	4H	21.18	22.18	21.61	22.60	23.03	21.45	22.44	21.88	22.86	23.30
	6H	21.45	22.32	21.91	22.76	23.22	21.65	22.52	22.10	22.96	23.41
	8H	21.49	22.30	21.95	22.74	23.21	21.68	22.49	22.14	22.93	23.40
	12H	21.50	22.22	21.98	22.70	23.17	21.70	22.43	22.18	22.91	23.38
8H	4H	21.36	22.17	21.82	22.61	23.08	21.60	22.41	22.06	22.86	23.32
	6H	21.68	22.35	22.18	22.84	23.32	21.85	22.51	22.34	23.00	23.48
	8H	21.74	22.34	22.25	22.85	23.34	21.90	22.50	22.41	23.01	23.50
	12H	21.77	22.30	22.28	22.79	23.36	21.95	22.48	22.46	22.97	23.53
12H	4H	21.35	22.08	21.84	22.56	23.03	21.60	22.32	22.08	22.80	23.27
	6H	21.67	22.27	22.18	22.78	23.27	21.84	22.44	22.35	22.94	23.43
	8H	21.76	22.29	22.27	22.78	23.35	21.92	22.45	22.43	22.94	23.51