

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: P1499680

Luminaire Tested: MAE-G-4-120-3STD-HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499680
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-4-120-3STD-HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

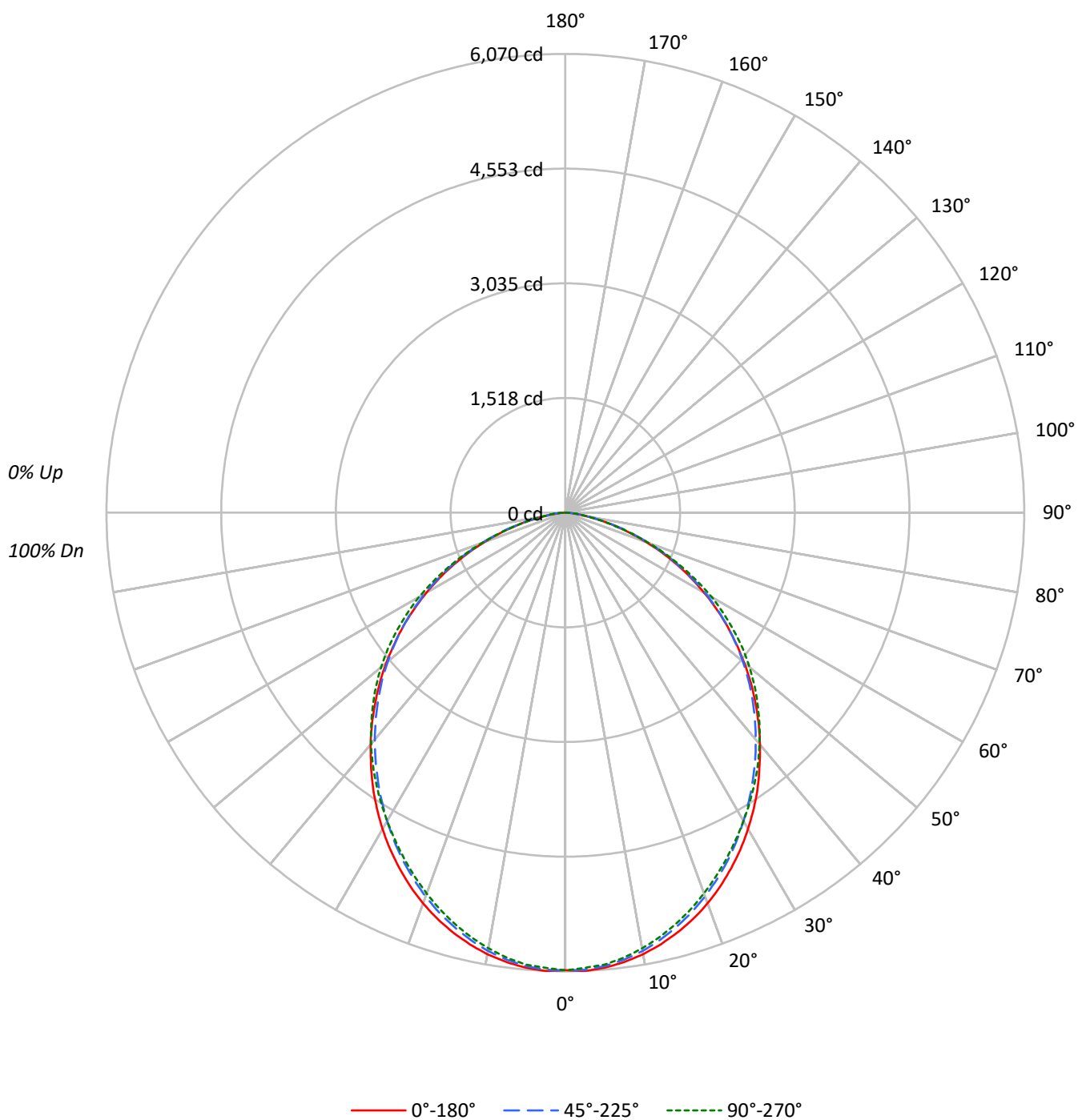
Lumens per Lamp: N/A
Luminaire Lumens: 14843.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 191.3
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			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	92	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	61
4	84	73	64	58	82	71	63	57	69	62	57		66	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	42	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	34	28	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8148	8148	8148
5°	8162	8135	8105
10°	8106	8045	7998
15°	8009	7906	7851
20°	7878	7738	7679
25°	7707	7542	7493
30°	7511	7323	7321
35°	7289	7101	7173
40°	7037	6884	7019
45°	6764	6663	6850
50°	6465	6417	6653
55°	6127	6132	6377
60°	5709	5771	6022
65°	5190	5289	5419
70°	4476	4617	4620
75°	3561	3706	3531
80°	2406	2493	2395
85°	1246	1616	2005

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6850 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.9	3.8
10°-20°	1599.2	10.8
20°-30°	2344.5	15.8
30°-40°	2725.0	18.4
40°-50°	2726.7	18.4
50°-60°	2353.6	15.9
60°-70°	1641.7	11.1
70°-80°	747.7	5.0
80°-90°	134.7	0.9
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°	4513.6	30.4
0°-40°	7238.6	48.8
0°-60°	12318.9	83.0
0°-90°	14843.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14843.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6056	6056	6056	6056	6056	
5°	6043	6019	6023	5992	6001	573
15°	5749	5711	5676	5629	5636	1620
25°	5191	5139	5080	5031	5047	2390
35°	4438	4372	4323	4330	4367	2772
45°	3555	3503	3502	3559	3600	2742
55°	2612	2572	2614	2691	2719	2332
65°	1630	1615	1661	1695	1702	1611
75°	685	686	713	695	679	736
85°	81	88	105	122	130	119
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6055.7	6055.7	6055.7	6055.7	6055.7
2.5°	6070.4	6047.4	6055.7	6031.7	6028.9
5°	6043.4	6019.0	6023.1	5992.3	6000.9
7.5°	5996.6	5969.9	5965.9	5931.5	5939.0
10°	5933.1	5901.1	5888.7	5848.6	5854.0
12.5°	5848.7	5814.7	5792.1	5745.8	5754.5
15°	5749.3	5711.1	5675.9	5628.6	5636.0
17.5°	5634.2	5591.1	5548.3	5493.9	5506.9
20°	5502.3	5454.9	5403.9	5346.4	5363.0
22.5°	5354.3	5303.4	5245.9	5192.7	5208.6
25°	5191.4	5138.7	5080.4	5030.8	5047.3
27.5°	5020.1	4961.2	4901.1	4862.1	4880.7
30°	4834.7	4773.0	4713.4	4684.8	4711.9
32.5°	4638.9	4576.8	4521.4	4510.1	4541.9
35°	4437.5	4371.8	4323.0	4329.8	4367.1
37.5°	4221.2	4163.9	4123.3	4148.2	4186.0
40°	4006.4	3947.0	3919.5	3956.2	3996.2
42.5°	3784.3	3730.2	3713.0	3763.7	3800.6
45°	3554.6	3503.1	3501.9	3559.4	3599.7
47.5°	3328.2	3276.2	3287.5	3351.6	3395.7
50°	3088.6	3043.7	3065.4	3138.8	3178.5
52.5°	2849.1	2806.4	2841.1	2919.3	2958.3
55°	2612.0	2572.0	2614.0	2690.6	2718.7
57.5°	2366.3	2338.8	2384.0	2452.2	2482.4
60°	2121.6	2096.9	2144.4	2209.6	2237.7
62.5°	1876.6	1857.8	1905.0	1960.0	1971.2
65°	1630.3	1615.3	1661.2	1694.6	1702.2
67.5°	1380.9	1374.1	1418.5	1439.7	1441.1
70°	1137.7	1128.6	1173.6	1184.2	1174.4
72.5°	901.3	900.6	933.3	933.9	916.3
75°	685.0	685.8	712.9	695.2	679.2
77.5°	484.1	486.3	503.2	482.8	473.9
80°	310.5	319.7	321.8	315.2	309.1
82.5°	174.1	185.0	186.5	204.1	211.8
85°	80.7	88.2	104.7	122.4	129.9
87.5°	27.4	33.7	43.2	46.5	43.6
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	18.22	19.80	18.59	20.12	20.43	18.55	20.14	18.92	20.45	20.77
	3H	19.67	21.10	20.05	21.42	21.79	19.99	21.42	20.37	21.74	22.10
	4H	20.09	21.43	20.49	21.78	22.16	20.38	21.72	20.78	22.07	22.44
	6H	20.30	21.54	20.71	21.90	22.29	20.56	21.79	20.97	22.16	22.55
	8H	20.32	21.50	20.75	21.89	22.29	20.59	21.77	21.02	22.16	22.56
	12H	20.32	21.45	20.75	21.83	22.26	20.61	21.74	21.04	22.12	22.55
4H	2H	18.80	20.14	19.20	20.48	20.86	19.07	20.40	19.46	20.75	21.13
	3H	20.43	21.54	20.84	21.94	22.34	20.69	21.80	21.10	22.20	22.60
	4H	20.93	21.93	21.36	22.35	22.78	21.17	22.17	21.60	22.59	23.02
	6H	21.21	22.08	21.67	22.52	22.98	21.42	22.29	21.88	22.73	23.19
	8H	21.25	22.07	21.71	22.51	22.98	21.47	22.29	21.94	22.73	23.20
	12H	21.26	21.99	21.75	22.47	22.94	21.51	22.24	21.99	22.72	23.19
8H	4H	21.12	21.93	21.58	22.38	22.84	21.34	22.15	21.80	22.59	23.06
	6H	21.45	22.12	21.95	22.61	23.09	21.64	22.31	22.13	22.80	23.28
	8H	21.52	22.12	22.03	22.63	23.12	21.72	22.32	22.23	22.83	23.32
	12H	21.55	22.08	22.06	22.58	23.14	21.80	22.33	22.31	22.82	23.38
12H	4H	21.12	21.84	21.60	22.32	22.79	21.33	22.06	21.81	22.54	23.01
	6H	21.45	22.05	21.96	22.56	23.05	21.63	22.24	22.15	22.74	23.23
	8H	21.55	22.08	22.06	22.57	23.13	21.75	22.28	22.26	22.77	23.34