

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: P1499512

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499512
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-4-120-3HI-LO-30-90-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

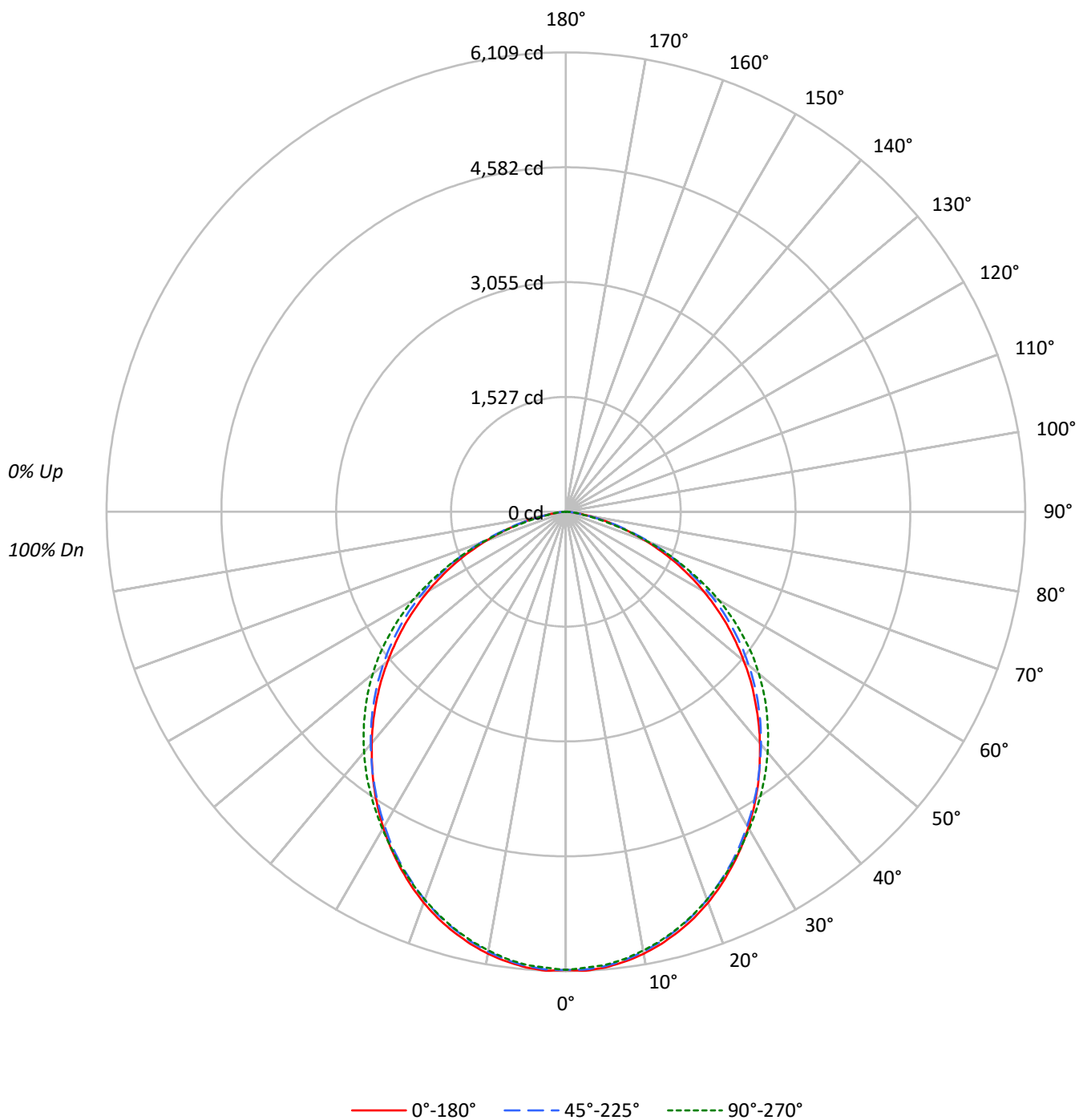
Lumens per Lamp: N/A
Luminaire Lumens: 15134.0 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 181.1
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	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	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8198	8198	8198
5°	8213	8190	8170
10°	8155	8117	8095
15°	8055	8003	7992
20°	7920	7863	7860
25°	7743	7692	7710
30°	7542	7494	7572
35°	7313	7290	7459
40°	7055	7091	7334
45°	6776	6885	7192
50°	6471	6647	7019
55°	6129	6368	6736
60°	5702	6002	6329
65°	5170	5490	5580
70°	4440	4717	4585
75°	3515	3647	3240
80°	2344	2233	1880
85°	1179	1267	1445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7192 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.2	3.8
10°-20°	1618.8	10.7
20°-30°	2386.9	15.8
30°-40°	2789.7	18.4
40°-50°	2806.4	18.5
50°-60°	2431.9	16.1
60°-70°	1682.7	11.1
70°-80°	729.7	4.8
80°-90°	113.8	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°	4579.9	30.3
0°-40°	7369.6	48.7
0°-60°	12607.9	83.3
0°-90°	15134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6093	6093	6093	6093	6093	
5°	6081	6052	6064	6042	6049	577
15°	5782	5749	5745	5726	5737	1629
25°	5216	5184	5181	5166	5194	2401
35°	4452	4420	4438	4486	4541	2781
45°	3561	3548	3618	3720	3780	2748
55°	2613	2610	2714	2832	2872	2332
65°	1624	1643	1724	1750	1753	1605
75°	676	694	702	653	623	726
85°	76	78	82	91	94	114
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6092.6	6092.6	6092.6	6092.6	6092.6
2.5°	6109.2	6079.2	6092.6	6076.2	6068.4
5°	6081.1	6051.7	6063.7	6042.3	6049.1
7.5°	6033.6	6004.2	6011.7	5990.3	5997.6
10°	5969.0	5936.1	5940.9	5918.7	5925.3
12.5°	5883.1	5851.2	5852.5	5828.7	5840.7
15°	5782.5	5749.2	5745.0	5725.6	5737.4
17.5°	5665.7	5631.1	5627.2	5603.1	5620.9
20°	5531.4	5496.5	5491.5	5464.9	5489.5
22.5°	5381.3	5347.1	5339.2	5319.5	5345.9
25°	5215.9	5184.4	5181.1	5166.0	5193.7
27.5°	5042.1	5007.4	5007.4	5004.8	5035.0
30°	4854.1	4819.9	4823.6	4832.4	4873.9
32.5°	4655.4	4624.1	4633.8	4662.6	4709.8
35°	4452.1	4419.9	4438.0	4486.5	4541.0
37.5°	4233.1	4211.0	4240.3	4308.3	4364.0
40°	4016.6	3993.2	4037.1	4117.8	4175.6
42.5°	3793.0	3776.2	3830.3	3926.1	3980.8
45°	3560.9	3548.2	3618.2	3720.0	3779.6
47.5°	3334.5	3319.5	3400.9	3509.4	3572.5
50°	3091.2	3085.1	3175.6	3293.2	3353.0
52.5°	2852.6	2846.1	2946.7	3069.0	3124.8
55°	2612.7	2609.9	2714.5	2831.7	2871.6
57.5°	2365.0	2374.5	2478.3	2578.7	2618.7
60°	2118.9	2129.9	2230.5	2318.6	2351.9
62.5°	1872.7	1889.3	1980.8	2046.5	2053.3
65°	1623.8	1643.1	1724.4	1750.3	1752.7
67.5°	1373.0	1397.3	1464.9	1467.8	1462.0
70°	1128.7	1147.7	1199.0	1187.0	1165.6
72.5°	891.4	914.3	938.2	911.8	881.6
75°	676.2	694.0	701.6	653.1	623.3
77.5°	475.5	486.9	478.2	427.4	405.9
80°	302.5	312.5	288.2	256.9	242.6
82.5°	167.3	174.3	153.7	157.1	159.6
85°	76.4	78.2	82.1	90.7	93.6
87.5°	26.2	28.9	33.0	34.4	31.6
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	18.24	19.82	18.60	20.14	20.45	18.84	20.42	19.20	20.74	21.05
	3H	19.67	21.10	20.05	21.42	21.79	20.18	21.60	20.55	21.93	22.29
	4H	20.08	21.42	20.48	21.77	22.15	20.49	21.83	20.89	22.18	22.55
	6H	20.28	21.51	20.69	21.88	22.27	20.59	21.83	21.00	22.19	22.58
	8H	20.30	21.48	20.72	21.86	22.26	20.60	21.78	21.02	22.16	22.56
	12H	20.29	21.42	20.72	21.80	22.23	20.60	21.72	21.02	22.10	22.53
4H	2H	18.85	20.19	19.25	20.54	20.91	19.34	20.67	19.74	21.02	21.40
	3H	20.46	21.57	20.87	21.97	22.37	20.85	21.96	21.26	22.36	22.76
	4H	20.95	21.95	21.38	22.36	22.80	21.24	22.24	21.67	22.66	23.09
	6H	21.21	22.08	21.67	22.52	22.98	21.40	22.27	21.86	22.71	23.17
	8H	21.25	22.06	21.71	22.50	22.97	21.42	22.23	21.88	22.67	23.14
	12H	21.26	21.98	21.74	22.46	22.93	21.43	22.15	21.91	22.63	23.10
8H	4H	21.12	21.93	21.58	22.37	22.84	21.39	22.20	21.85	22.64	23.11
	6H	21.43	22.10	21.93	22.59	23.07	21.58	22.25	22.08	22.74	23.21
	8H	21.49	22.08	22.00	22.59	23.08	21.61	22.21	22.13	22.72	23.21
	12H	21.51	22.04	22.02	22.53	23.10	21.64	22.17	22.15	22.66	23.23
12H	4H	21.11	21.84	21.59	22.31	22.78	21.38	22.11	21.86	22.58	23.05
	6H	21.42	22.01	21.93	22.52	23.01	21.57	22.17	22.08	22.67	23.16
	8H	21.50	22.03	22.01	22.52	23.08	21.63	22.16	22.14	22.65	23.21

END OF REPORT