

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: P1499518

Luminaire Tested: MAE-G-4-120-3HI-LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499518
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-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

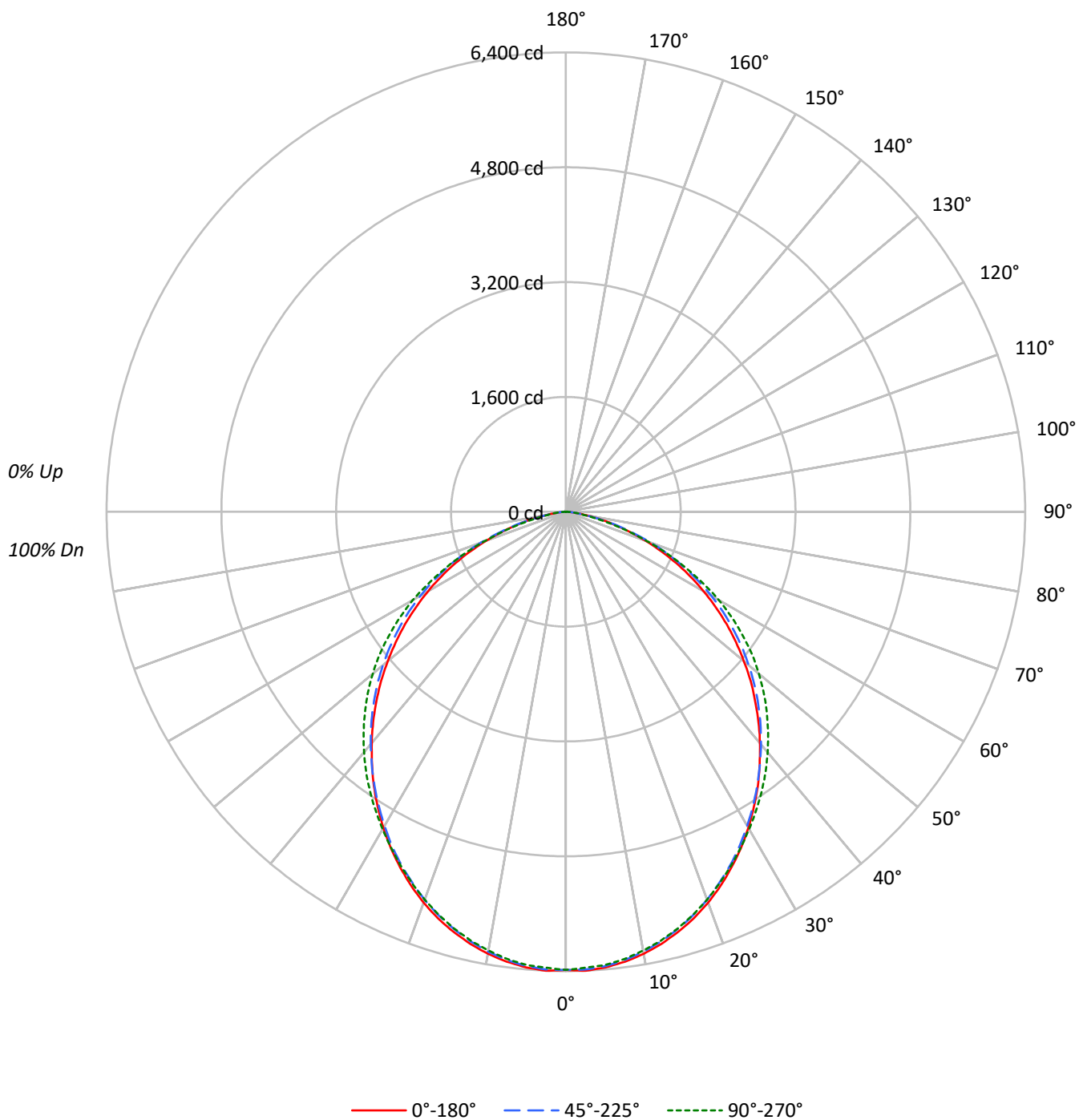
Lumens per Lamp: N/A
Luminaire Lumens: 15855.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.2 / 1.3
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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				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	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°	8588	8588	8588
5°	8605	8580	8559
10°	8544	8503	8481
15°	8439	8384	8373
20°	8297	8238	8235
25°	8112	8058	8078
30°	7901	7851	7933
35°	7661	7637	7814
40°	7391	7429	7684
45°	7098	7213	7535
50°	6779	6964	7353
55°	6421	6671	7057
60°	5973	6288	6630
65°	5416	5751	5846
70°	4652	4941	4804
75°	3683	3821	3394
80°	2456	2340	1970
85°	1237	1328	1514

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7535 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.6	3.8
10°-20°	1695.9	10.7
20°-30°	2500.6	15.8
30°-40°	2922.6	18.4
40°-50°	2940.1	18.5
50°-60°	2547.7	16.1
60°-70°	1762.8	11.1
70°-80°	764.4	4.8
80°-90°	119.3	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°	4798.0	30.3
0°-40°	7720.7	48.7
0°-60°	13208.5	83.3
0°-90°	15855.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15855.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6383	6383	6383	6383	6383	
5°	6371	6340	6353	6330	6337	604
15°	6058	6023	6019	5998	6011	1707
25°	5464	5431	5428	5412	5441	2516
35°	4664	4630	4649	4700	4757	2914
45°	3730	3717	3791	3897	3960	2879
55°	2737	2734	2844	2967	3008	2443
65°	1701	1722	1806	1834	1836	1682
75°	708	727	735	684	653	761
85°	80	82	86	95	98	120
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6382.8	6382.8	6382.8	6382.8	6382.8
2.5°	6400.2	6368.7	6382.8	6365.7	6357.4
5°	6370.8	6340.1	6352.6	6330.1	6337.3
7.5°	6321.1	6290.2	6298.0	6275.6	6283.2
10°	6253.3	6218.8	6223.9	6200.6	6207.5
12.5°	6163.4	6130.0	6131.3	6106.4	6119.0
15°	6058.0	6023.1	6018.8	5998.5	6010.8
17.5°	5935.6	5899.4	5895.4	5870.0	5888.7
20°	5794.9	5758.4	5753.1	5725.2	5751.0
22.5°	5637.6	5601.7	5593.5	5573.0	5600.6
25°	5464.4	5431.3	5428.0	5412.1	5441.2
27.5°	5282.3	5245.9	5246.0	5243.2	5274.9
30°	5085.3	5049.5	5053.4	5062.6	5106.1
32.5°	4877.1	4844.4	4854.6	4884.8	4934.1
35°	4664.2	4630.5	4649.4	4700.3	4757.3
37.5°	4434.8	4411.6	4442.3	4513.5	4571.9
40°	4208.0	4183.5	4229.4	4314.0	4374.6
42.5°	3973.7	3956.0	4012.7	4113.2	4170.4
45°	3730.5	3717.3	3790.7	3897.2	3959.7
47.5°	3493.3	3477.7	3562.9	3676.7	3742.7
50°	3238.5	3232.1	3326.8	3450.1	3512.7
52.5°	2988.5	2981.6	3087.1	3215.2	3273.7
55°	2737.1	2734.2	2843.9	2966.6	3008.4
57.5°	2477.7	2487.6	2596.3	2701.6	2743.5
60°	2219.8	2231.3	2336.8	2429.1	2463.9
62.5°	1962.0	1979.3	2075.1	2144.0	2151.1
65°	1701.3	1721.5	1806.5	1833.7	1836.2
67.5°	1438.5	1463.9	1534.7	1537.7	1531.6
70°	1182.5	1202.3	1256.1	1243.6	1221.1
72.5°	933.9	957.9	982.9	955.3	923.6
75°	708.4	727.1	735.0	684.2	652.9
77.5°	498.2	510.1	501.0	447.7	425.2
80°	317.0	327.5	302.0	269.2	254.2
82.5°	175.3	182.7	161.0	164.6	167.2
85°	80.1	81.9	86.0	94.9	98.1
87.5°	27.4	30.3	34.5	36.1	33.1
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	18.40	19.98	18.77	20.30	20.61	19.00	20.58	19.36	20.90	21.21
	3H	19.84	21.26	20.21	21.59	21.95	20.34	21.76	20.72	22.09	22.45
	4H	20.25	21.58	20.65	21.93	22.31	20.65	21.99	21.05	22.34	22.71
	6H	20.44	21.67	20.85	22.04	22.43	20.75	21.99	21.17	22.36	22.75
	8H	20.46	21.64	20.89	22.03	22.43	20.76	21.94	21.19	22.33	22.73
	12H	20.46	21.58	20.89	21.96	22.39	20.76	21.88	21.19	22.26	22.69
4H	2H	19.01	20.35	19.41	20.70	21.08	19.50	20.83	19.90	21.18	21.56
	3H	20.62	21.73	21.03	22.13	22.53	21.02	22.13	21.43	22.52	22.92
	4H	21.11	22.11	21.55	22.53	22.96	21.40	22.40	21.84	22.82	23.25
	6H	21.38	22.24	21.83	22.69	23.14	21.56	22.43	22.02	22.87	23.33
	8H	21.41	22.22	21.87	22.66	23.13	21.58	22.39	22.04	22.83	23.30
	12H	21.42	22.14	21.90	22.62	23.09	21.59	22.31	22.07	22.79	23.26
8H	4H	21.28	22.09	21.75	22.54	23.00	21.55	22.36	22.01	22.80	23.27
	6H	21.59	22.26	22.09	22.75	23.23	21.74	22.41	22.24	22.90	23.38
	8H	21.65	22.25	22.16	22.76	23.24	21.77	22.37	22.29	22.88	23.37
	12H	21.68	22.20	22.18	22.69	23.26	21.81	22.33	22.31	22.82	23.39
12H	4H	21.27	22.00	21.76	22.48	22.95	21.54	22.27	22.03	22.75	23.22
	6H	21.58	22.18	22.09	22.68	23.17	21.73	22.33	22.24	22.84	23.32
	8H	21.66	22.19	22.17	22.68	23.25	21.79	22.32	22.30	22.81	23.37