

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: P1499494

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499494
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-HI-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

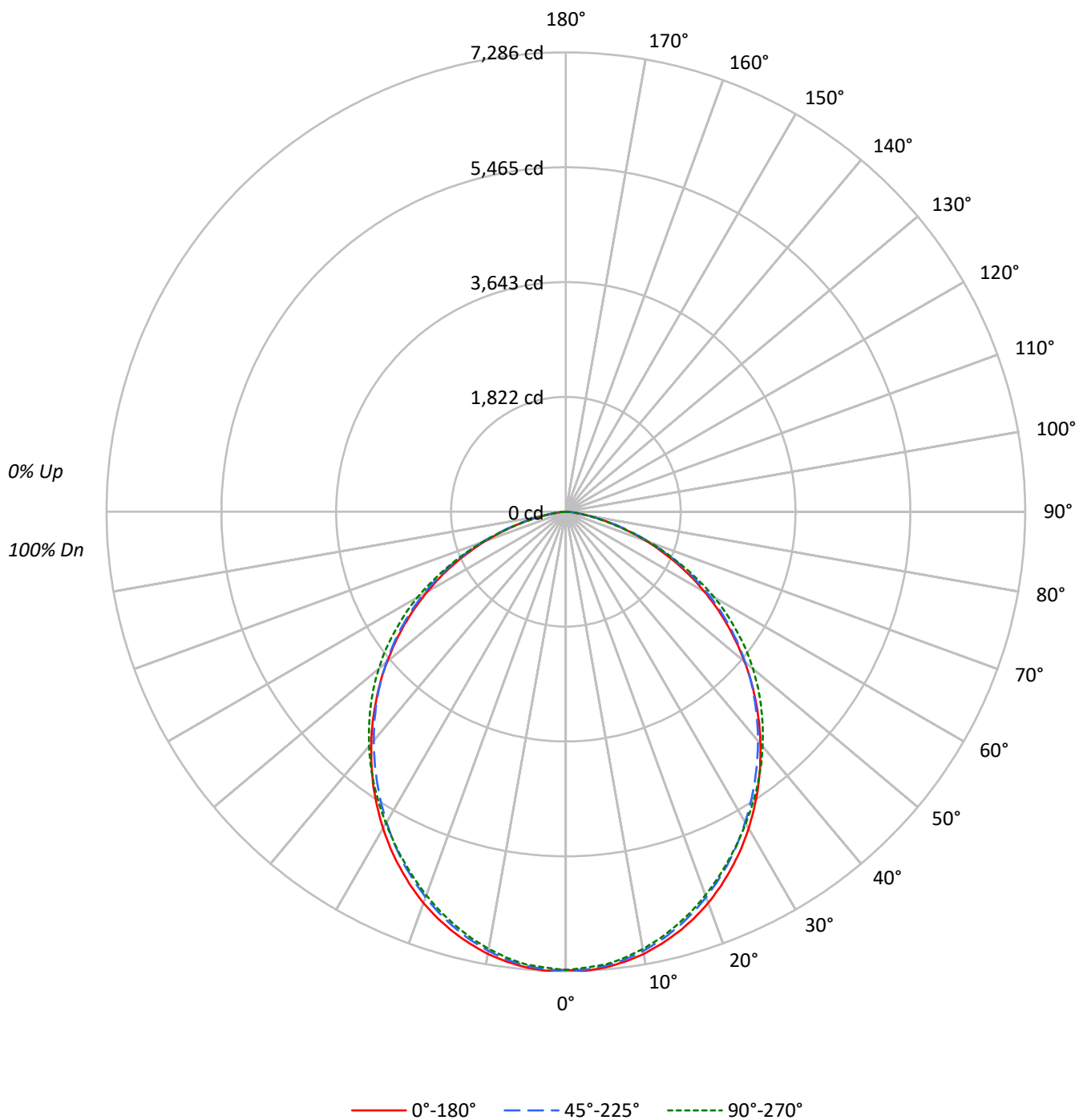
Lumens per Lamp: N/A
Luminaire Lumens: 17892.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 221.8
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9779	9779	9779
5°	9797	9766	9734
10°	9729	9665	9618
15°	9611	9508	9459
20°	9453	9317	9268
25°	9246	9092	9059
30°	9009	8838	8866
35°	8740	8578	8702
40°	8436	8326	8529
45°	8107	8067	8337
50°	7747	7775	8110
55°	7340	7436	7777
60°	6836	7001	7331
65°	6210	6413	6554
70°	5347	5569	5521
75°	4248	4417	4118
80°	2858	2887	2671
85°	1468	1802	2188

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8337 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.3	3.8
10°-20°	1923.2	10.7
20°-30°	2824.7	15.8
30°-40°	3289.1	18.4
40°-50°	3296.9	18.4
50°-60°	2849.4	15.9
60°-70°	1982.3	11.1
70°-80°	888.7	5.0
80°-90°	153.3	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°	5432.2	30.4
0°-40°	8721.4	48.7
0°-60°	14867.6	83.1
0°-90°	17892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7268	7268	7268	7268	7268	
5°	7254	7223	7231	7197	7207	688
15°	6900	6856	6826	6780	6790	1944
25°	6228	6173	6124	6078	6102	2868
35°	5321	5256	5223	5247	5298	3325
45°	4260	4214	4240	4325	4381	3287
55°	3129	3096	3170	3277	3315	2793
65°	1950	1946	2014	2051	2058	1928
75°	817	825	850	817	792	878
85°	95	102	117	134	142	141
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7268.3	7268.3	7268.3	7268.3	7268.3
2.5°	7286.5	7256.3	7268.3	7242.4	7237.1
5°	7253.7	7222.7	7230.6	7197.3	7206.9
7.5°	7197.4	7164.4	7164.0	7127.8	7136.7
10°	7120.9	7082.2	7074.0	7032.9	7039.8
12.5°	7019.3	6979.3	6961.5	6914.6	6926.4
15°	6899.8	6855.9	6825.7	6779.7	6790.3
17.5°	6761.3	6712.9	6676.6	6623.0	6640.4
20°	6602.3	6550.4	6506.9	6449.9	6472.9
22.5°	6424.2	6369.7	6319.9	6269.0	6292.1
25°	6228.2	6173.1	6124.5	6078.2	6102.3
27.5°	6022.0	5960.7	5911.8	5879.1	5905.8
30°	5798.8	5735.5	5688.4	5668.5	5706.6
32.5°	5563.1	5500.7	5459.3	5461.2	5505.2
35°	5321.3	5255.5	5222.6	5246.8	5298.0
37.5°	5061.0	5006.0	4984.3	5030.6	5082.7
40°	4803.2	4745.8	4740.2	4801.2	4856.0
42.5°	4536.4	4485.9	4492.8	4570.8	4621.9
45°	4260.4	4213.6	4239.6	4325.4	4381.2
47.5°	3989.2	3941.1	3981.6	4075.5	4135.5
50°	3700.8	3661.9	3714.3	3819.3	3874.5
52.5°	3414.3	3377.0	3443.9	3554.5	3607.7
55°	3129.1	3095.5	3169.9	3277.3	3315.4
57.5°	2834.0	2815.3	2891.9	2986.1	3025.9
60°	2540.5	2524.5	2601.8	2688.7	2724.3
62.5°	2246.5	2237.6	2311.0	2381.1	2392.8
65°	1950.5	1945.7	2014.2	2051.3	2058.5
67.5°	1651.2	1654.9	1717.0	1735.4	1734.3
70°	1359.3	1359.3	1415.5	1419.6	1403.4
72.5°	1075.9	1084.1	1120.0	1110.2	1084.3
75°	817.2	824.7	849.6	816.6	792.1
77.5°	576.7	582.8	593.1	557.0	541.5
80°	368.9	380.2	372.6	355.2	344.7
82.5°	206.0	217.6	210.8	226.5	233.6
85°	95.1	101.8	116.7	134.4	141.7
87.5°	32.4	38.5	47.8	51.1	47.6
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	18.85	20.44	19.22	20.75	21.07	19.27	20.86	19.64	21.17	21.49
	3H	20.30	21.72	20.68	22.05	22.41	20.68	22.10	21.06	22.43	22.79
	4H	20.72	22.06	21.12	22.40	22.78	21.04	22.38	21.44	22.73	23.11
	6H	20.92	22.15	21.33	22.52	22.91	21.19	22.43	21.61	22.80	23.19
	8H	20.94	22.12	21.37	22.51	22.91	21.22	22.40	21.64	22.79	23.19
	12H	20.94	22.07	21.37	22.45	22.88	21.23	22.36	21.66	22.74	23.17
4H	2H	19.44	20.78	19.84	21.13	21.50	19.78	21.12	20.18	21.47	21.84
	3H	21.06	22.17	21.47	22.57	22.97	21.37	22.48	21.78	22.88	23.28
	4H	21.57	22.57	22.00	22.98	23.42	21.82	22.82	22.25	23.23	23.67
	6H	21.84	22.71	22.30	23.15	23.61	22.04	22.91	22.49	23.35	23.81
	8H	21.88	22.69	22.34	23.13	23.60	22.08	22.89	22.54	23.33	23.80
	12H	21.89	22.62	22.37	23.09	23.56	22.11	22.83	22.59	23.31	23.78
8H	4H	21.75	22.56	22.21	23.00	23.47	21.98	22.79	22.44	23.23	23.70
	6H	22.07	22.74	22.57	23.23	23.71	22.24	22.91	22.74	23.40	23.88
	8H	22.14	22.74	22.65	23.24	23.73	22.31	22.91	22.82	23.42	23.91
	12H	22.17	22.70	22.68	23.19	23.75	22.37	22.90	22.88	23.39	23.95
12H	4H	21.74	22.47	22.22	22.95	23.42	21.97	22.70	22.46	23.18	23.65
	6H	22.07	22.67	22.58	23.17	23.66	22.24	22.84	22.75	23.35	23.83
	8H	22.16	22.69	22.67	23.18	23.75	22.34	22.86	22.84	23.36	23.92