

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: P1499473

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499473
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-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

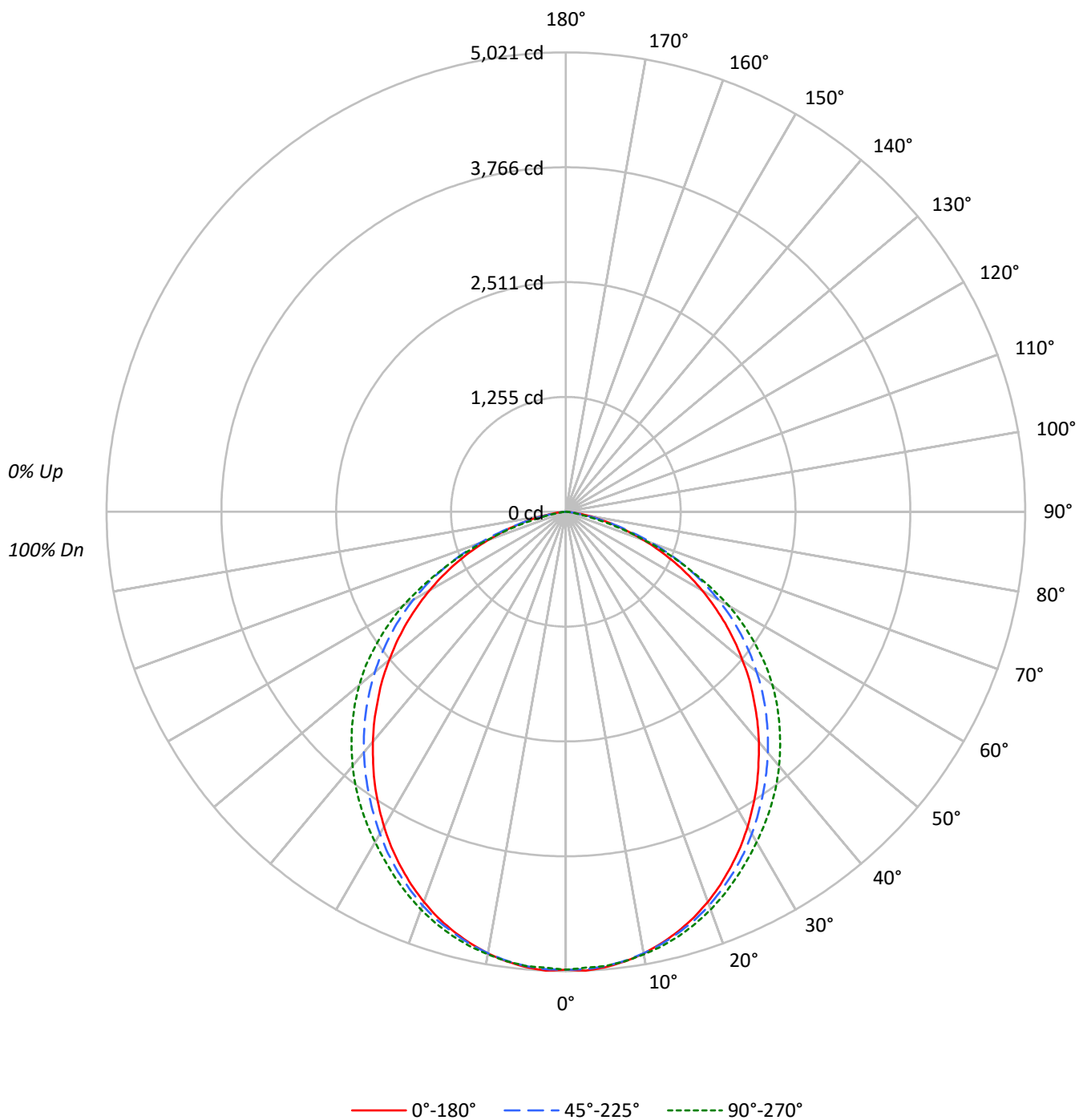
Lumens per Lamp: N/A
Luminaire Lumens: 12684.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 132.9
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	50	76	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	41		
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	36	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°	6734	6734	6734
5°	6748	6734	6731
10°	6698	6695	6711
15°	6613	6634	6683
20°	6498	6557	6626
25°	6347	6449	6550
30°	6175	6315	6481
35°	5981	6171	6431
40°	5764	6032	6368
45°	5529	5883	6286
50°	5273	5701	6174
55°	4989	5480	5936
60°	4630	5178	5539
65°	4181	4722	4745
70°	3568	3965	3687
75°	2803	2893	2268
80°	1829	1488	878
85°	877	588	466

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6286 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.7	3.7
10°-20°	1342.1	10.6
20°-30°	1996.0	15.7
30°-40°	2352.1	18.5
40°-50°	2384.8	18.8
50°-60°	2078.0	16.4
60°-70°	1421.2	11.2
70°-80°	570.9	4.5
80°-90°	66.2	0.5
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°	3810.8	30.0
0°-40°	6162.9	48.6
0°-60°	10625.7	83.8
0°-90°	12684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5004	5004	5004	5004	5004	
5°	4996	4966	4986	4980	4984	474
15°	4748	4727	4763	4782	4797	1338
25°	4275	4277	4344	4375	4412	1968
35°	3641	3658	3757	3850	3916	2275
45°	2906	2945	3092	3231	3304	2243
55°	2127	2172	2336	2483	2531	1899
65°	1313	1372	1483	1495	1490	1299
75°	539	575	556	478	436	579
85°	57	51	38	34	30	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5004.5	5004.5	5004.5	5004.5	5004.5
2.5°	5020.6	4987.1	5004.5	5000.9	4988.1
5°	4996.3	4966.2	4985.8	4980.2	4983.5
7.5°	4956.9	4929.3	4950.0	4949.0	4954.6
10°	4902.7	4874.8	4900.4	4905.0	4911.9
12.5°	4830.9	4807.8	4839.0	4848.2	4862.1
15°	4747.5	4726.8	4762.6	4782.3	4797.4
17.5°	4650.3	4632.9	4679.2	4697.9	4718.6
20°	4538.0	4525.5	4579.7	4597.1	4627.3
22.5°	4413.2	4406.3	4462.8	4489.4	4524.2
25°	4275.4	4276.6	4343.7	4375.1	4411.9
27.5°	4130.9	4133.2	4209.6	4253.4	4292.8
30°	3974.6	3981.5	4064.9	4119.4	4171.3
32.5°	3809.1	3822.9	3913.2	3987.4	4045.2
35°	3641.4	3657.5	3757.2	3849.5	3915.5
37.5°	3459.8	3486.4	3598.7	3708.6	3776.7
40°	3281.5	3308.1	3434.2	3555.7	3625.3
42.5°	3097.6	3131.1	3265.4	3400.7	3467.7
45°	2905.6	2944.7	3091.8	3230.6	3303.5
47.5°	2721.4	2756.2	2911.2	3056.0	3131.1
50°	2518.9	2562.9	2723.7	2875.4	2949.6
52.5°	2325.8	2366.2	2531.7	2686.9	2753.9
55°	2126.8	2171.8	2336.3	2483.1	2530.6
57.5°	1923.0	1977.5	2136.0	2258.8	2303.8
60°	1720.7	1774.9	1924.3	2025.0	2058.5
62.5°	1519.2	1577.2	1707.9	1774.9	1774.9
65°	1313.3	1372.4	1483.3	1494.9	1490.3
67.5°	1107.4	1166.5	1250.9	1229.9	1216.1
70°	907.1	958.0	1007.9	969.5	937.3
72.5°	712.8	761.4	769.6	714.1	673.4
75°	539.1	575.2	556.5	478.0	436.3
77.5°	376.0	396.9	357.5	277.7	244.2
80°	236.1	245.3	192.1	135.3	113.3
82.5°	127.4	128.4	83.4	68.3	63.7
85°	56.8	50.9	38.1	33.5	30.2
87.5°	19.7	17.4	13.8	12.8	10.5
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	17.55	19.14	17.92	19.45	19.76	18.54	20.12	18.90	20.43	20.75
	3H	18.96	20.38	19.34	20.71	21.07	19.74	21.16	20.12	21.49	21.85
	4H	19.36	20.69	19.75	21.04	21.42	19.96	21.29	20.36	21.64	22.02
	6H	19.53	20.76	19.94	21.13	21.52	19.97	21.21	20.39	21.57	21.96
	8H	19.55	20.72	19.97	21.11	21.51	19.95	21.12	20.38	21.51	21.91
	12H	19.54	20.66	19.97	21.04	21.47	19.93	21.05	20.36	21.43	21.86
4H	2H	18.22	19.56	18.62	19.91	20.28	19.01	20.35	19.41	20.70	21.07
	3H	19.79	20.90	20.20	21.30	21.70	20.38	21.49	20.79	21.89	22.29
	4H	20.27	21.26	20.70	21.68	22.11	20.66	21.65	21.09	22.06	22.50
	6H	20.51	21.37	20.96	21.81	22.27	20.71	21.57	21.16	22.01	22.47
	8H	20.53	21.34	20.99	21.78	22.25	20.68	21.49	21.14	21.93	22.40
	12H	20.53	21.25	21.01	21.73	22.20	20.66	21.38	21.14	21.86	22.33
8H	4H	20.41	21.22	20.88	21.66	22.13	20.77	21.58	21.24	22.02	22.49
	6H	20.69	21.35	21.18	21.84	22.32	20.83	21.50	21.33	21.99	22.46
	8H	20.73	21.32	21.24	21.83	22.32	20.81	21.40	21.32	21.91	22.40
	12H	20.74	21.26	21.25	21.76	22.32	20.80	21.32	21.31	21.81	22.37
12H	4H	20.40	21.11	20.88	21.59	22.06	20.76	21.48	21.24	21.96	22.43
	6H	20.66	21.25	21.17	21.76	22.25	20.81	21.40	21.32	21.91	22.40
	8H	20.72	21.25	21.23	21.74	22.30	20.81	21.33	21.32	21.82	22.39