

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: P1499668

Luminaire Tested: MAE-G-4-120-3STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499668
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-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

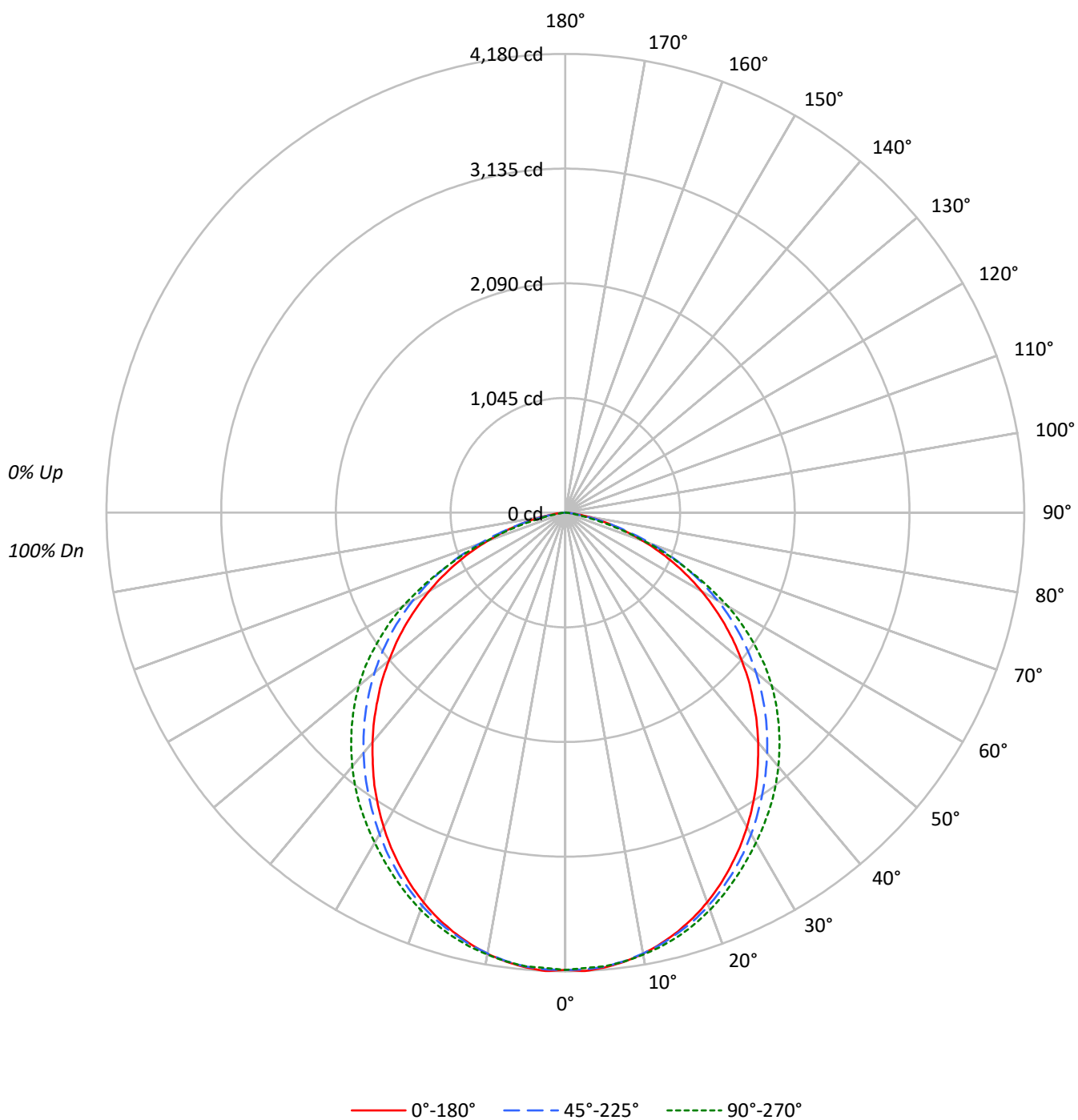
Lumens per Lamp: N/A
Luminaire Lumens: 10561.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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°	5607	5607	5607
5°	5619	5607	5604
10°	5577	5575	5588
15°	5506	5524	5564
20°	5410	5460	5517
25°	5285	5369	5454
30°	5142	5258	5396
35°	4980	5139	5355
40°	4799	5022	5302
45°	4603	4898	5234
50°	4390	4747	5141
55°	4154	4563	4943
60°	3855	4311	4612
65°	3481	3932	3950
70°	2971	3301	3070
75°	2334	2409	1889
80°	1523	1239	731
85°	730	489	387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5234 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.6	3.7
10°-20°	1117.4	10.6
20°-30°	1661.9	15.7
30°-40°	1958.4	18.5
40°-50°	1985.6	18.8
50°-60°	1730.2	16.4
60°-70°	1183.3	11.2
70°-80°	475.3	4.5
80°-90°	55.1	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°	3173.0	30.0
0°-40°	5131.4	48.6
0°-60°	8847.2	83.8
0°-90°	10561.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10561.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4167	4167	4167	4167	4167	
5°	4160	4135	4151	4147	4149	395
15°	3953	3936	3965	3982	3994	1114
25°	3560	3561	3617	3643	3674	1639
35°	3032	3045	3128	3205	3260	1894
45°	2419	2452	2574	2690	2751	1867
55°	1771	1808	1945	2068	2107	1581
65°	1094	1143	1235	1245	1241	1081
75°	449	479	463	398	363	482
85°	47	42	32	28	25	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4166.9	4166.9	4166.9	4166.9	4166.9
2.5°	4180.3	4152.4	4166.9	4163.9	4153.2
5°	4160.1	4134.9	4151.3	4146.6	4149.4
7.5°	4127.3	4104.3	4121.5	4120.7	4125.4
10°	4082.1	4058.9	4080.2	4084.0	4089.8
12.5°	4022.3	4003.1	4029.1	4036.8	4048.3
15°	3952.9	3935.6	3965.4	3981.8	3994.4
17.5°	3871.9	3857.5	3896.0	3911.6	3928.8
20°	3778.5	3768.0	3813.2	3827.7	3852.8
22.5°	3674.6	3668.8	3715.9	3738.0	3767.0
25°	3559.8	3560.8	3616.6	3642.8	3673.5
27.5°	3439.5	3441.4	3505.0	3541.5	3574.3
30°	3309.4	3315.1	3384.5	3429.9	3473.1
32.5°	3171.6	3183.1	3258.2	3320.0	3368.1
35°	3031.9	3045.3	3128.4	3205.2	3260.2
37.5°	2880.7	2902.8	2996.3	3087.9	3144.5
40°	2732.3	2754.4	2859.4	2960.6	3018.5
42.5°	2579.2	2607.1	2718.9	2831.5	2887.3
45°	2419.2	2451.8	2574.3	2689.9	2750.6
47.5°	2265.9	2294.9	2423.9	2544.5	2607.1
50°	2097.3	2133.9	2267.8	2394.1	2455.9
52.5°	1936.5	1970.2	2107.9	2237.2	2293.0
55°	1770.8	1808.3	1945.2	2067.5	2107.1
57.5°	1601.1	1646.5	1778.5	1880.7	1918.2
60°	1432.7	1477.8	1602.2	1686.1	1714.0
62.5°	1264.9	1313.2	1422.0	1477.8	1477.8
65°	1093.5	1142.7	1235.1	1244.7	1240.8
67.5°	922.0	971.2	1041.5	1024.0	1012.5
70°	755.3	797.7	839.2	807.3	780.4
72.5°	593.5	633.9	640.7	594.5	560.7
75°	448.9	478.9	463.4	398.0	363.3
77.5°	313.0	330.5	297.7	231.3	203.4
80°	196.5	204.2	159.9	112.6	94.3
82.5°	106.0	106.9	69.4	56.9	53.0
85°	47.3	42.4	31.7	27.9	25.1
87.5°	16.4	14.5	11.5	10.6	8.7
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	16.92	18.50	17.28	18.81	19.13	17.90	19.48	18.26	19.80	20.11
	3H	18.33	19.75	18.70	20.07	20.44	19.10	20.52	19.48	20.85	21.21
	4H	18.72	20.05	19.12	20.40	20.78	19.32	20.65	19.72	21.00	21.38
	6H	18.89	20.13	19.31	20.49	20.88	19.34	20.57	19.75	20.93	21.33
	8H	18.91	20.08	19.33	20.47	20.87	19.31	20.49	19.74	20.88	21.28
	12H	18.90	20.02	19.33	20.40	20.83	19.29	20.41	19.72	20.79	21.22
4H	2H	17.59	18.92	17.99	19.27	19.65	18.38	19.71	18.78	20.06	20.44
	3H	19.16	20.26	19.57	20.66	21.06	19.75	20.85	20.16	21.25	21.65
	4H	19.63	20.63	20.06	21.04	21.48	20.02	21.01	20.45	21.43	21.86
	6H	19.87	20.73	20.33	21.18	21.63	20.07	20.93	20.53	21.37	21.83
	8H	19.89	20.70	20.36	21.14	21.61	20.05	20.85	20.51	21.29	21.76
	12H	19.89	20.61	20.38	21.09	21.56	20.03	20.74	20.51	21.22	21.69
8H	4H	19.78	20.58	20.24	21.02	21.49	20.14	20.94	20.60	21.39	21.85
	6H	20.05	20.71	20.55	21.20	21.68	20.20	20.86	20.69	21.35	21.83
	8H	20.09	20.68	20.60	21.19	21.68	20.17	20.77	20.69	21.28	21.76
	12H	20.11	20.63	20.62	21.12	21.68	20.16	20.68	20.67	21.17	21.74
12H	4H	19.76	20.48	20.24	20.96	21.43	20.13	20.84	20.61	21.32	21.79
	6H	20.02	20.62	20.53	21.12	21.61	20.17	20.77	20.69	21.28	21.76
	8H	20.09	20.61	20.60	21.10	21.67	20.18	20.70	20.68	21.19	21.75