

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: P1499440

Luminaire Tested: MAE-G-4-120-2STD-STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2STD-STD-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

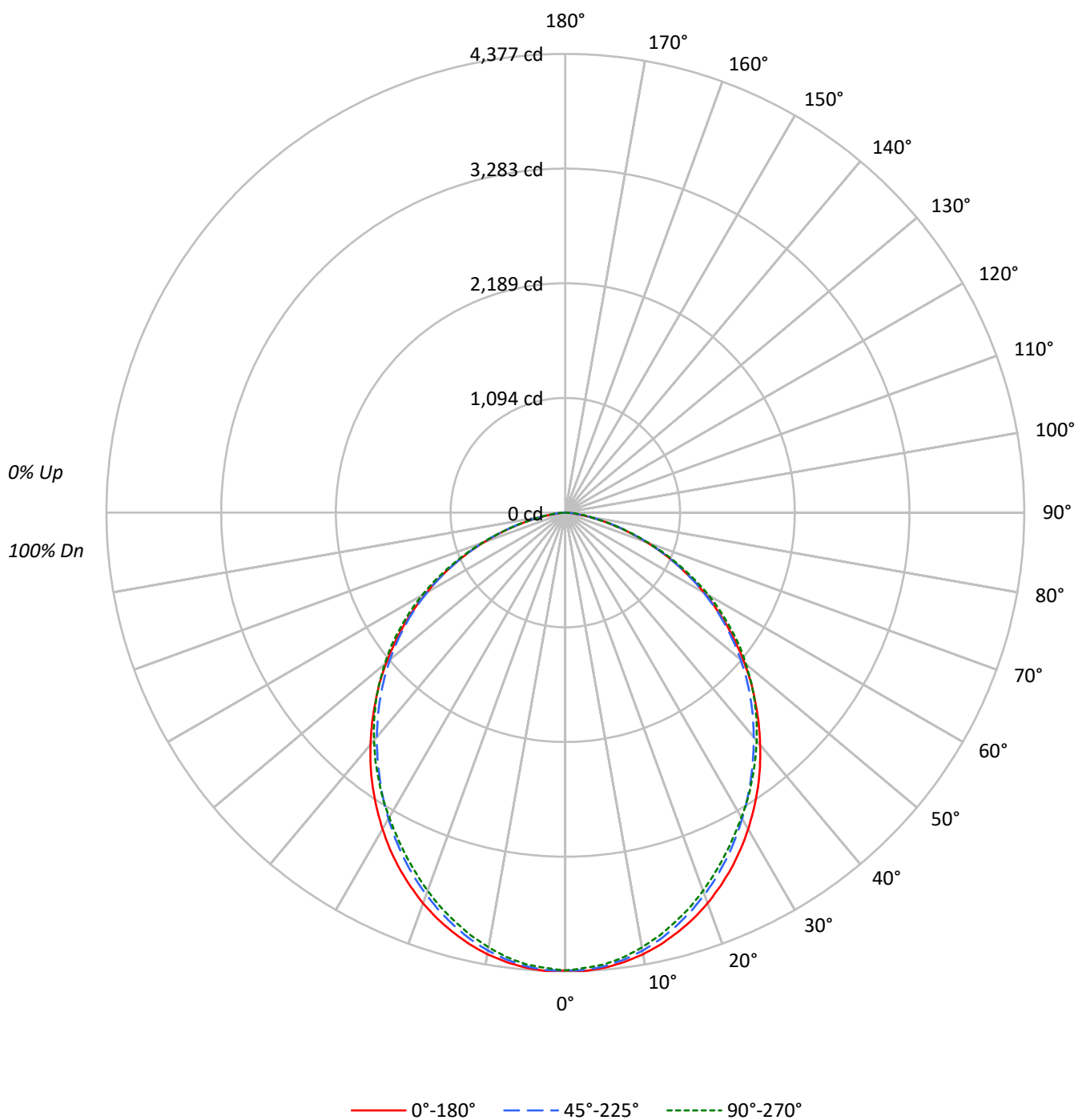
Lumens per Lamp: N/A
Luminaire Lumens: 10633.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5878	5878	5878
5°	5886	5867	5841
10°	5845	5798	5754
15°	5773	5689	5634
20°	5679	5554	5499
25°	5560	5404	5350
30°	5418	5241	5217
35°	5259	5072	5102
40°	5076	4912	4986
45°	4880	4748	4863
50°	4666	4571	4708
55°	4419	4360	4514
60°	4123	4099	4255
65°	3749	3750	3857
70°	3237	3274	3321
75°	2580	2653	2622
80°	1747	1843	1849
85°	898	1232	1573

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4880 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.8	3.9
10°-20°	1150.5	10.8
20°-30°	1682.2	15.8
30°-40°	1951.1	18.3
40°-50°	1947.6	18.3
50°-60°	1677.7	15.8
60°-70°	1170.8	11.0
70°-80°	540.8	5.1
80°-90°	101.4	1.0
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°	3243.6	30.5
0°-40°	5194.6	48.9
0°-60°	8820.0	82.9
0°-90°	10633.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4368	4368	4368	4368	4368	
5°	4358	4342	4344	4319	4325	413
15°	4144	4116	4084	4042	4044	1168
25°	3745	3702	3640	3598	3604	1724
35°	3202	3147	3088	3086	3106	2001
45°	2564	2516	2495	2529	2556	1978
55°	1884	1846	1859	1904	1924	1682
65°	1178	1160	1178	1199	1211	1165
75°	496	491	510	506	504	534
85°	58	65	80	95	102	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4368.4	4368.4	4368.4	4368.4	4368.4
2.5°	4377.3	4363.0	4368.4	4349.3	4348.1
5°	4358.2	4342.4	4344.0	4319.0	4324.6
7.5°	4324.6	4306.3	4301.5	4273.1	4278.5
10°	4278.2	4255.7	4243.5	4208.7	4211.4
12.5°	4218.6	4193.1	4171.8	4131.6	4136.3
15°	4144.5	4115.9	4083.9	4041.7	4044.4
17.5°	4062.8	4031.7	3986.7	3942.1	3949.3
20°	3966.3	3932.0	3879.1	3832.6	3840.3
22.5°	3859.2	3820.4	3765.3	3719.0	3723.2
25°	3744.9	3702.0	3640.4	3598.5	3603.7
27.5°	3620.8	3573.0	3510.2	3472.7	3481.4
30°	3487.3	3437.2	3373.6	3345.9	3358.1
32.5°	3346.8	3295.5	3233.7	3219.2	3237.5
35°	3201.5	3146.8	3087.8	3086.0	3106.4
37.5°	3050.1	2996.3	2943.3	2954.1	2975.3
40°	2890.0	2839.4	2796.5	2815.7	2838.6
42.5°	2728.8	2680.3	2647.7	2675.6	2700.4
45°	2564.5	2516.2	2495.4	2529.4	2555.8
47.5°	2401.1	2352.4	2342.1	2381.4	2405.1
50°	2229.0	2185.6	2183.6	2226.1	2249.3
52.5°	2055.4	2015.2	2022.6	2068.3	2096.7
55°	1883.8	1846.5	1858.7	1904.1	1924.2
57.5°	1707.5	1677.9	1693.8	1734.3	1754.2
60°	1532.1	1504.7	1523.1	1561.8	1581.2
62.5°	1354.6	1330.9	1351.9	1384.4	1397.1
65°	1177.5	1159.7	1177.8	1198.7	1211.4
67.5°	1003.1	986.4	1006.1	1026.3	1030.9
70°	822.8	812.3	832.3	844.3	844.2
72.5°	656.9	646.7	665.7	670.2	666.9
75°	496.2	490.7	510.4	506.1	504.4
77.5°	350.1	352.6	363.0	359.7	359.0
80°	225.5	233.3	237.8	240.2	238.6
82.5°	126.7	134.0	140.9	157.5	164.1
85°	58.2	65.2	79.8	95.3	101.9
87.5°	19.7	25.2	33.5	36.1	34.2
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	17.08	18.66	17.45	18.98	19.29	17.30	18.89	17.67	19.20	19.52
	3H	18.55	19.97	18.92	20.30	20.66	18.77	20.20	19.15	20.52	20.88
	4H	18.97	20.31	19.37	20.66	21.03	19.19	20.52	19.59	20.87	21.25
	6H	19.18	20.41	19.59	20.78	21.17	19.39	20.63	19.81	21.00	21.39
	8H	19.20	20.38	19.63	20.77	21.17	19.44	20.62	19.86	21.01	21.41
	12H	19.20	20.33	19.63	20.71	21.14	19.47	20.60	19.90	20.98	21.41
4H	2H	17.64	18.98	18.04	19.32	19.70	17.82	19.16	18.22	19.51	19.88
	3H	19.28	20.39	19.69	20.79	21.19	19.47	20.59	19.88	20.98	21.38
	4H	19.79	20.79	20.22	21.21	21.64	19.98	20.98	20.41	21.40	21.83
	6H	20.08	20.95	20.53	21.39	21.85	20.27	21.14	20.72	21.58	22.04
	8H	20.12	20.93	20.58	21.38	21.84	20.34	21.15	20.80	21.59	22.06
	12H	20.13	20.86	20.61	21.34	21.81	20.39	21.11	20.87	21.59	22.06
8H	4H	19.98	20.79	20.44	21.24	21.70	20.15	20.96	20.61	21.41	21.87
	6H	20.32	20.99	20.82	21.48	21.96	20.50	21.17	20.99	21.66	22.13
	8H	20.39	20.99	20.90	21.50	21.99	20.60	21.20	21.11	21.71	22.20
	12H	20.43	20.96	20.94	21.45	22.01	20.69	21.22	21.20	21.71	22.28
12H	4H	19.98	20.71	20.46	21.18	21.65	20.15	20.88	20.63	21.35	21.82
	6H	20.32	20.92	20.83	21.43	21.92	20.49	21.10	21.01	21.60	22.09
	8H	20.43	20.96	20.93	21.45	22.01	20.63	21.16	21.14	21.66	22.22