

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: P1499446

Luminaire Tested: MAE-G-4-120-2STD-STD-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499446
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-35-90-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

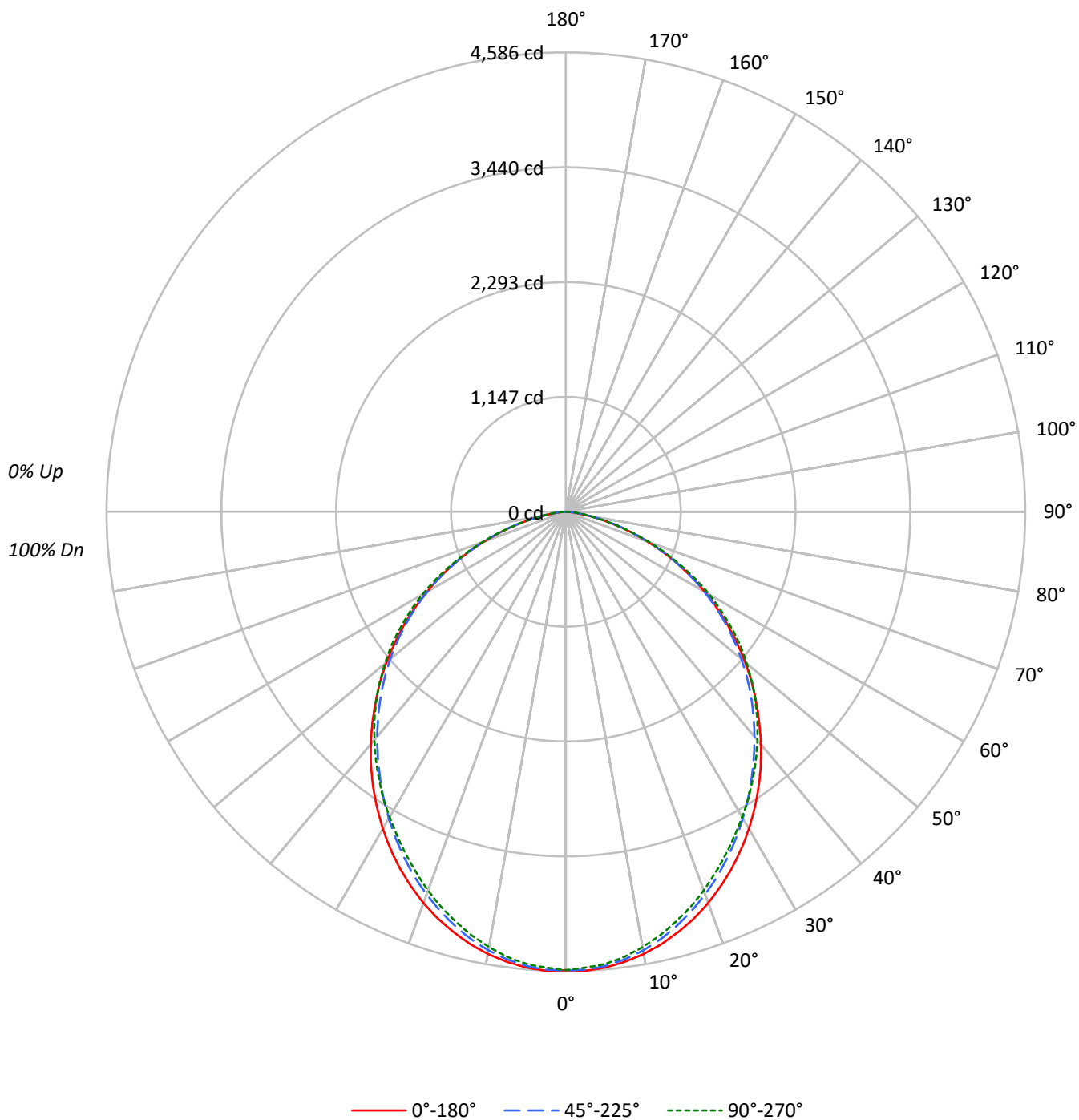
Lumens per Lamp: N/A
Luminaire Lumens: 11140.0 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6158	6158	6158
5°	6167	6147	6119
10°	6124	6074	6028
15°	6048	5960	5902
20°	5950	5819	5761
25°	5825	5662	5605
30°	5676	5491	5466
35°	5509	5314	5346
40°	5318	5146	5224
45°	5112	4975	5095
50°	4888	4789	4933
55°	4630	4568	4729
60°	4319	4294	4458
65°	3927	3929	4041
70°	3391	3430	3479
75°	2702	2780	2747
80°	1830	1931	1937
85°	940	1291	1647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.4	3.9
10°-20°	1205.4	10.8
20°-30°	1762.5	15.8
30°-40°	2044.1	18.3
40°-50°	2040.5	18.3
50°-60°	1757.7	15.8
60°-70°	1226.6	11.0
70°-80°	566.6	5.1
80°-90°	106.2	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°	3398.2	30.5
0°-40°	5442.3	48.9
0°-60°	9240.5	82.9
0°-90°	11140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4577	4577	4577	4577	4577	
5°	4566	4549	4551	4525	4531	433
15°	4342	4312	4279	4234	4237	1224
25°	3924	3879	3814	3770	3776	1806
35°	3354	3297	3235	3233	3254	2096
45°	2687	2636	2614	2650	2678	2073
55°	1974	1935	1947	1995	2016	1763
65°	1234	1215	1234	1256	1269	1220
75°	520	514	535	530	528	559
85°	61	68	84	100	107	90
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4576.7	4576.7	4576.7	4576.7	4576.7
2.5°	4585.9	4571.0	4576.7	4556.6	4555.4
5°	4565.9	4549.4	4551.1	4524.8	4530.8
7.5°	4530.9	4511.7	4506.5	4476.8	4482.4
10°	4482.2	4458.6	4445.8	4409.3	4412.2
12.5°	4419.7	4393.0	4370.7	4328.6	4333.5
15°	4342.1	4312.1	4278.6	4234.4	4237.2
17.5°	4256.6	4223.9	4176.8	4130.0	4137.6
20°	4155.4	4119.5	4064.1	4015.4	4023.4
22.5°	4043.2	4002.6	3944.8	3896.4	3900.8
25°	3923.5	3878.6	3813.9	3770.1	3775.6
27.5°	3793.4	3743.4	3677.4	3638.3	3647.4
30°	3653.6	3601.1	3534.4	3505.4	3518.3
32.5°	3506.4	3452.6	3387.9	3372.7	3391.9
35°	3354.1	3296.8	3235.0	3233.2	3254.5
37.5°	3195.6	3139.2	3083.6	3094.9	3117.2
40°	3027.8	2974.8	2929.8	2949.9	2974.0
42.5°	2859.0	2808.1	2773.9	2803.3	2829.2
45°	2686.8	2636.2	2614.3	2650.0	2677.6
47.5°	2515.6	2464.6	2453.9	2495.0	2519.8
50°	2335.3	2289.8	2287.7	2332.2	2356.5
52.5°	2153.3	2111.3	2119.1	2167.0	2196.7
55°	1973.7	1934.6	1947.4	1995.0	2016.0
57.5°	1789.0	1758.0	1774.6	1817.0	1837.8
60°	1605.0	1576.5	1595.7	1636.3	1656.6
62.5°	1419.1	1394.4	1416.3	1450.4	1463.7
65°	1233.6	1214.9	1234.0	1256.0	1269.2
67.5°	1050.8	1033.4	1054.2	1075.2	1080.1
70°	862.1	851.1	872.0	884.6	884.4
72.5°	688.3	677.6	697.5	702.2	698.6
75°	519.8	514.1	534.8	530.3	528.5
77.5°	366.7	369.4	380.3	376.9	376.0
80°	236.2	244.5	249.2	251.7	250.0
82.5°	132.8	140.3	147.6	165.1	171.9
85°	60.9	68.4	83.6	99.9	106.7
87.5°	20.5	26.4	35.1	37.8	35.7
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	17.24	18.83	17.61	19.14	19.45	17.47	19.05	17.83	19.36	19.68
	3H	18.71	20.13	19.08	20.46	20.82	18.93	20.36	19.31	20.68	21.04
	4H	19.13	20.47	19.53	20.82	21.19	19.35	20.69	19.75	21.03	21.41
	6H	19.34	20.58	19.75	20.94	21.33	19.56	20.79	19.97	21.16	21.55
	8H	19.37	20.55	19.79	20.93	21.33	19.60	20.78	20.03	21.17	21.57
	12H	19.37	20.49	19.80	20.88	21.30	19.63	20.76	20.06	21.14	21.57
4H	2H	17.80	19.14	18.20	19.49	19.86	17.98	19.32	18.38	19.67	20.05
	3H	19.44	20.55	19.85	20.95	21.35	19.64	20.75	20.05	21.15	21.55
	4H	19.95	20.95	20.38	21.37	21.81	20.14	21.14	20.57	21.56	22.00
	6H	20.24	21.11	20.69	21.55	22.01	20.43	21.30	20.89	21.74	22.20
	8H	20.28	21.10	20.74	21.54	22.00	20.50	21.31	20.96	21.75	22.22
	12H	20.29	21.02	20.78	21.50	21.97	20.55	21.28	21.03	21.75	22.22
8H	4H	20.14	20.95	20.60	21.40	21.86	20.31	21.13	20.78	21.57	22.04
	6H	20.48	21.15	20.98	21.64	22.12	20.66	21.33	21.15	21.82	22.30
	8H	20.55	21.15	21.06	21.66	22.15	20.76	21.36	21.27	21.87	22.36
	12H	20.59	21.12	21.10	21.61	22.17	20.85	21.38	21.36	21.88	22.44
12H	4H	20.14	20.87	20.62	21.35	21.82	20.31	21.04	20.79	21.52	21.99
	6H	20.48	21.09	20.99	21.59	22.08	20.66	21.26	21.17	21.77	22.25
	8H	20.59	21.12	21.10	21.61	22.17	20.80	21.33	21.30	21.82	22.38

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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