

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: P1499656

Luminaire Tested: MAE-G-4-120-3STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499656
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-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

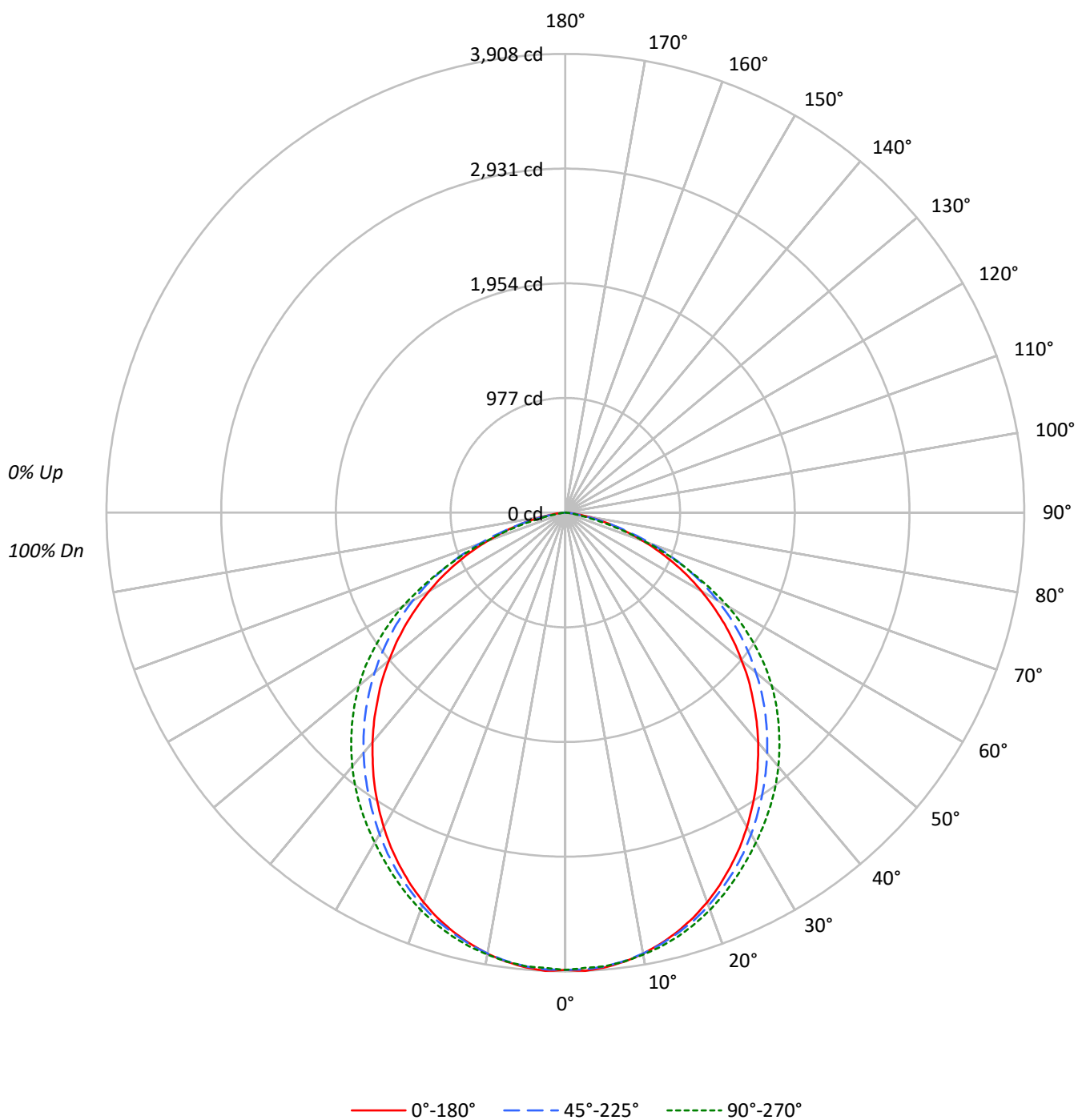
Lumens per Lamp: N/A
Luminaire Lumens: 9872.0 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5241	5241	5241
5°	5252	5241	5239
10°	5213	5211	5223
15°	5147	5163	5201
20°	5057	5104	5157
25°	4940	5019	5098
30°	4806	4915	5044
35°	4655	4803	5006
40°	4486	4695	4956
45°	4303	4579	4892
50°	4104	4437	4805
55°	3883	4265	4620
60°	3604	4030	4311
65°	3254	3676	3693
70°	2777	3086	2870
75°	2181	2252	1765
80°	1423	1158	683
85°	682	459	363

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4892 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.9	3.7
10°-20°	1044.5	10.6
20°-30°	1553.5	15.7
30°-40°	1830.6	18.5
40°-50°	1856.1	18.8
50°-60°	1617.4	16.4
60°-70°	1106.1	11.2
70°-80°	444.3	4.5
80°-90°	51.5	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°	2966.0	30.0
0°-40°	4796.6	48.6
0°-60°	8270.0	83.8
0°-90°	9872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9872.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3895	3895	3895	3895	3895	
5°	3889	3865	3880	3876	3879	369
15°	3695	3679	3707	3722	3734	1041
25°	3328	3328	3381	3405	3434	1532
35°	2834	2847	2924	2996	3048	1770
45°	2261	2292	2406	2514	2571	1745
55°	1655	1690	1818	1933	1970	1478
65°	1022	1068	1154	1164	1160	1011
75°	420	448	433	372	340	451
85°	44	40	30	26	24	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3895.0	3895.0	3895.0	3895.0	3895.0
2.5°	3907.6	3881.5	3895.0	3892.2	3882.3
5°	3888.7	3865.2	3880.5	3876.1	3878.7
7.5°	3858.0	3836.5	3852.6	3851.8	3856.2
10°	3815.8	3794.1	3814.0	3817.6	3823.0
12.5°	3759.9	3742.0	3766.2	3773.4	3784.2
15°	3695.0	3678.9	3706.7	3722.1	3733.8
17.5°	3619.3	3605.8	3641.8	3656.4	3672.5
20°	3532.0	3522.2	3564.4	3577.9	3601.4
22.5°	3434.8	3429.4	3473.4	3494.1	3521.2
25°	3327.5	3328.5	3380.7	3405.2	3433.8
27.5°	3215.1	3216.9	3276.4	3310.4	3341.1
30°	3093.5	3098.8	3163.7	3206.1	3246.5
32.5°	2964.7	2975.4	3045.7	3103.4	3148.4
35°	2834.1	2846.6	2924.3	2996.1	3047.5
37.5°	2692.8	2713.5	2800.8	2886.4	2939.4
40°	2554.0	2574.7	2672.9	2767.4	2821.5
42.5°	2410.9	2437.0	2541.5	2646.8	2698.9
45°	2261.4	2291.9	2406.3	2514.4	2571.1
47.5°	2118.1	2145.2	2265.8	2378.5	2437.0
50°	1960.5	1994.7	2119.9	2237.9	2295.7
52.5°	1810.2	1841.6	1970.4	2091.2	2143.4
55°	1655.3	1690.3	1818.3	1932.6	1969.6
57.5°	1496.7	1539.1	1662.5	1758.0	1793.1
60°	1339.2	1381.4	1497.7	1576.1	1602.2
62.5°	1182.4	1227.5	1329.3	1381.4	1381.4
65°	1022.1	1068.1	1154.5	1163.5	1159.9
67.5°	861.9	907.9	973.6	957.2	946.5
70°	706.0	745.6	784.5	754.6	729.5
72.5°	554.8	592.6	598.9	555.8	524.1
75°	419.6	447.7	433.1	372.0	339.6
77.5°	292.6	308.9	278.3	216.2	190.1
80°	183.7	190.9	149.5	105.3	88.2
82.5°	99.1	99.9	64.9	53.1	49.6
85°	44.2	39.6	29.7	26.1	23.5
87.5°	15.3	13.5	10.7	10.0	8.2
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	16.68	18.27	17.05	18.58	18.89	17.67	19.25	18.03	19.56	19.88
	3H	18.09	19.51	18.47	19.84	20.20	18.87	20.29	19.25	20.62	20.98
	4H	18.49	19.82	18.88	20.17	20.54	19.09	20.42	19.48	20.77	21.14
	6H	18.66	19.89	19.07	20.26	20.65	19.10	20.34	19.51	20.70	21.09
	8H	18.67	19.85	19.10	20.24	20.64	19.08	20.25	19.51	20.64	21.04
	12H	18.67	19.79	19.10	20.17	20.60	19.06	20.18	19.48	20.56	20.99
4H	2H	17.35	18.69	17.75	19.03	19.41	18.14	19.48	18.54	19.82	20.20
	3H	18.92	20.03	19.33	20.43	20.83	19.51	20.62	19.92	21.02	21.42
	4H	19.40	20.39	19.83	20.81	21.24	19.78	20.78	20.22	21.19	21.63
	6H	19.64	20.50	20.09	20.94	21.40	19.84	20.70	20.29	21.14	21.60
	8H	19.66	20.46	20.12	20.91	21.37	19.81	20.62	20.27	21.06	21.53
	12H	19.66	20.38	20.14	20.86	21.33	19.79	20.51	20.27	20.99	21.46
8H	4H	19.54	20.35	20.01	20.79	21.26	19.90	20.71	20.37	21.15	21.62
	6H	19.82	20.48	20.31	20.97	21.45	19.96	20.62	20.46	21.12	21.59
	8H	19.86	20.45	20.37	20.96	21.45	19.94	20.53	20.45	21.04	21.53
	12H	19.87	20.39	20.38	20.89	21.45	19.93	20.45	20.43	20.94	21.50
12H	4H	19.52	20.24	20.01	20.72	21.19	19.89	20.61	20.37	21.09	21.56
	6H	19.79	20.38	20.30	20.89	21.38	19.94	20.53	20.45	21.04	21.53
	8H	19.85	20.38	20.36	20.87	21.43	19.94	20.46	20.45	20.95	21.52