

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: P1499392

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499392
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-HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

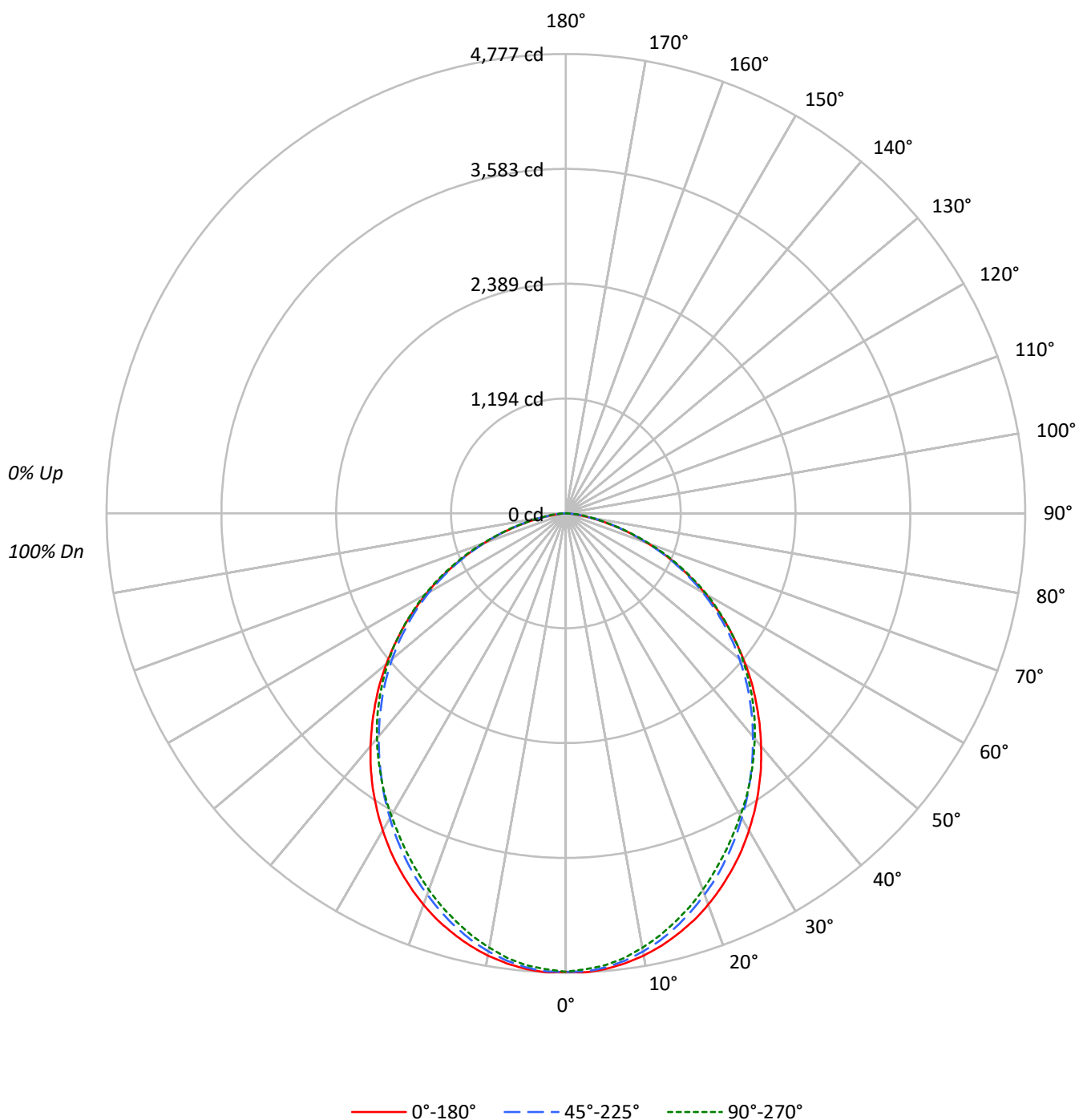
Lumens per Lamp: N/A
Luminaire Lumens: 11551.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 157.2
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	80	98	90	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	56		66	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6414	6414	6414
5°	6424	6402	6370
10°	6379	6321	6266
15°	6301	6195	6123
20°	6200	6041	5964
25°	6071	5870	5792
30°	5918	5686	5638
35°	5745	5496	5503
40°	5547	5316	5367
45°	5334	5133	5225
50°	5102	4936	5049
55°	4833	4705	4838
60°	4511	4420	4571
65°	4106	4048	4175
70°	3551	3557	3644
75°	2834	2922	2948
80°	1929	2090	2165
85°	1002	1445	1876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.1	3.9
10°-20°	1252.9	10.8
20°-30°	1828.3	15.8
30°-40°	2116.2	18.3
40°-50°	2108.4	18.3
50°-60°	1813.7	15.7
60°-70°	1269.7	11.0
70°-80°	596.9	5.2
80°-90°	116.8	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°	3529.4	30.6
0°-40°	5645.6	48.9
0°-60°	9567.7	82.8
0°-90°	11551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4767	4767	4767	4767	4767	
5°	4756	4740	4740	4710	4716	451
15°	4524	4491	4448	4394	4396	1275
25°	4089	4036	3954	3899	3902	1882
35°	3498	3428	3346	3332	3350	2186
45°	2803	2740	2698	2722	2746	2162
55°	2060	2009	2006	2044	2063	1840
65°	1290	1261	1271	1297	1312	1276
75°	545	535	562	566	567	586
85°	65	74	94	113	122	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4767.4	4767.4	4767.4	4767.4	4767.4
2.5°	4776.7	4763.0	4767.4	4744.4	4744.5
5°	4756.1	4740.1	4739.7	4709.8	4716.5
7.5°	4719.6	4700.3	4691.8	4657.2	4663.1
10°	4669.2	4644.8	4626.6	4583.7	4586.4
12.5°	4604.3	4575.9	4545.9	4495.9	4500.1
15°	4523.8	4491.2	4447.5	4393.8	4395.6
17.5°	4434.9	4398.3	4338.8	4281.4	4288.1
20°	4330.1	4288.9	4218.8	4159.2	4165.6
22.5°	4213.7	4166.5	4092.6	4032.7	4034.8
25°	4089.1	4036.3	3954.2	3898.7	3901.7
27.5°	3954.1	3895.1	3810.2	3759.3	3765.7
30°	3808.9	3746.4	3659.8	3619.0	3628.7
32.5°	3656.0	3591.2	3506.2	3478.9	3494.8
35°	3497.6	3428.4	3346.1	3332.3	3350.1
37.5°	3332.4	3264.1	3187.5	3187.1	3205.5
40°	3158.2	3092.9	3026.7	3035.2	3055.6
42.5°	2982.5	2919.1	2864.0	2881.9	2903.9
45°	2803.3	2739.9	2697.7	2722.4	2745.7
47.5°	2624.6	2561.3	2530.8	2561.1	2582.1
50°	2437.3	2379.3	2358.2	2392.4	2412.3
52.5°	2247.2	2193.4	2183.4	2221.2	2247.2
55°	2060.5	2009.3	2005.7	2044.1	2062.6
57.5°	1868.1	1825.6	1827.0	1862.5	1881.5
60°	1676.5	1636.9	1642.5	1678.8	1698.6
62.5°	1482.8	1447.3	1458.2	1491.2	1506.0
65°	1289.8	1260.7	1271.4	1296.8	1311.5
67.5°	1098.9	1072.5	1088.3	1115.4	1122.2
70°	902.6	883.0	904.2	923.6	926.4
72.5°	720.9	703.6	727.4	740.0	739.3
75°	545.2	534.7	562.1	565.8	567.1
77.5°	385.4	385.4	404.5	409.0	411.4
80°	248.9	257.1	269.7	279.0	279.4
82.5°	140.5	149.7	163.3	185.4	194.1
85°	64.9	74.2	93.6	113.1	121.5
87.5°	21.9	29.0	39.5	42.8	40.7
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	17.39	18.97	17.75	19.28	19.60	17.51	19.09	17.88	19.41	19.72
	3H	18.86	20.28	19.23	20.61	20.97	19.02	20.44	19.40	20.77	21.13
	4H	19.28	20.62	19.68	20.97	21.35	19.46	20.80	19.86	21.15	21.53
	6H	19.50	20.73	19.91	21.10	21.49	19.70	20.94	20.11	21.31	21.70
	8H	19.53	20.71	19.95	21.09	21.49	19.76	20.94	20.19	21.33	21.73
	12H	19.53	20.65	19.96	21.04	21.47	19.80	20.93	20.23	21.31	21.74
4H	2H	17.93	19.27	18.33	19.62	20.00	18.03	19.37	18.43	19.72	20.10
	3H	19.58	20.69	19.99	21.09	21.49	19.73	20.84	20.14	21.24	21.64
	4H	20.10	21.10	20.53	21.51	21.95	20.27	21.27	20.70	21.69	22.13
	6H	20.39	21.26	20.84	21.70	22.16	20.60	21.47	21.05	21.91	22.37
	8H	20.43	21.25	20.90	21.69	22.16	20.68	21.50	21.14	21.94	22.41
	12H	20.45	21.18	20.93	21.65	22.12	20.75	21.48	21.23	21.95	22.42
8H	4H	20.29	21.11	20.75	21.55	22.02	20.45	21.27	20.91	21.71	22.17
	6H	20.64	21.31	21.14	21.80	22.28	20.84	21.52	21.34	22.00	22.48
	8H	20.72	21.32	21.23	21.83	22.31	20.97	21.57	21.48	22.08	22.57
	12H	20.75	21.29	21.26	21.78	22.34	21.08	21.61	21.59	22.10	22.66
12H	4H	20.29	21.02	20.78	21.50	21.97	20.45	21.18	20.93	21.66	22.13
	6H	20.65	21.25	21.16	21.76	22.25	20.84	21.45	21.35	21.95	22.44
	8H	20.76	21.29	21.26	21.78	22.34	21.01	21.54	21.51	22.03	22.59

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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