

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: P1498849

Luminaire Tested: MAE-G-2-120-3STD-LO-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498849
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-2-120-3STD-LO-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

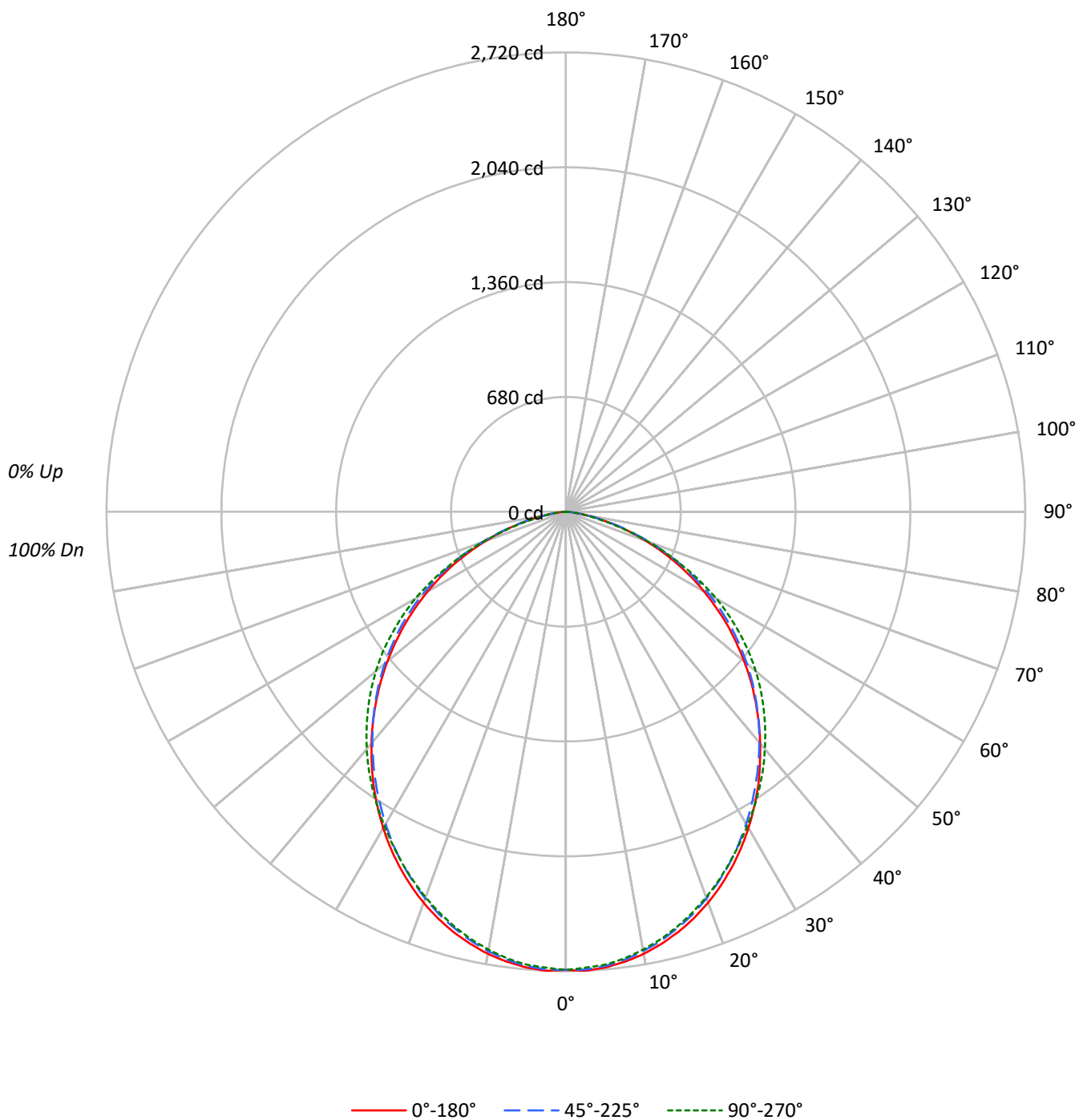
Lumens per Lamp: N/A
Luminaire Lumens: 6706.1 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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	93	90	91	89	88	88	88	86
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	62
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	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	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	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7300	7300	7300
5°	7314	7292	7271
10°	7263	7221	7193
15°	7174	7111	7087
20°	7055	6977	6956
25°	6899	6816	6811
30°	6721	6632	6676
35°	6519	6444	6563
40°	6291	6261	6443
45°	6043	6072	6307
50°	5773	5857	6144
55°	5469	5606	5894
60°	5092	5281	5548
65°	4621	4833	4928
70°	3975	4177	4105
75°	3153	3275	2987
80°	2112	2080	1847
85°	1074	1244	1473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6307 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.5	3.8
10°-20°	719.2	10.7
20°-30°	1058.2	15.8
30°-40°	1234.3	18.4
40°-50°	1239.3	18.5
50°-60°	1072.4	16.0
60°-70°	744.2	11.1
70°-80°	328.6	4.9
80°-90°	54.2	0.8
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°	2033.0	30.3
0°-40°	3267.3	48.7
0°-60°	5579.0	83.2
0°-90°	6706.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6706.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2713	2713	2713	2713	2713	
5°	2708	2695	2699	2688	2692	257
15°	2575	2559	2552	2539	2544	726
25°	2324	2306	2296	2283	2294	1070
35°	1984	1964	1962	1976	1998	1240
45°	1588	1576	1596	1634	1657	1225
55°	1166	1158	1195	1241	1256	1041
65°	726	729	759	772	774	717
75°	303	308	315	298	287	326
85°	35	36	40	46	48	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2712.9	2712.9	2712.9	2712.9	2712.9
2.5°	2720.0	2707.7	2712.9	2704.3	2701.7
5°	2707.6	2695.3	2699.4	2688.2	2691.6
7.5°	2686.5	2673.8	2675.2	2663.6	2666.9
10°	2657.9	2643.3	2642.6	2629.8	2632.5
12.5°	2619.7	2605.2	2601.9	2587.5	2592.3
15°	2575.1	2559.4	2552.5	2539.2	2543.8
17.5°	2523.2	2506.4	2498.3	2482.5	2489.7
20°	2463.7	2446.1	2436.3	2419.3	2429.0
22.5°	2397.1	2379.1	2367.4	2353.2	2363.2
25°	2323.7	2306.1	2295.6	2283.2	2293.8
27.5°	2246.5	2227.0	2217.2	2210.0	2221.6
30°	2163.0	2143.2	2134.5	2132.3	2148.4
32.5°	2074.8	2055.8	2049.5	2055.7	2074.3
35°	1984.5	1964.5	1961.7	1976.5	1997.9
37.5°	1887.2	1871.5	1873.1	1896.4	1918.3
40°	1790.8	1774.4	1782.3	1811.1	1834.0
42.5°	1691.3	1677.6	1690.1	1725.4	1746.9
45°	1588.0	1576.1	1595.6	1633.8	1657.2
47.5°	1487.0	1474.3	1499.1	1540.2	1565.3
50°	1379.1	1370.0	1399.0	1444.3	1467.7
52.5°	1272.4	1263.6	1297.7	1345.0	1367.2
55°	1165.8	1158.5	1194.9	1240.6	1256.4
57.5°	1055.6	1053.8	1090.5	1130.0	1146.3
60°	946.1	945.1	981.3	1016.8	1030.8
62.5°	836.4	838.0	871.5	899.1	902.8
65°	725.7	728.7	759.1	771.9	773.9
67.5°	614.1	619.7	646.1	650.4	649.0
70°	505.2	509.1	530.9	529.2	521.7
72.5°	399.4	405.8	417.9	410.5	399.2
75°	303.3	308.4	315.0	298.4	287.3
77.5°	213.6	217.2	217.6	199.9	192.3
80°	136.3	140.7	134.2	124.2	119.2
82.5°	75.8	79.6	74.0	77.8	79.8
85°	34.8	36.5	40.3	45.7	47.7
87.5°	11.9	13.7	16.4	17.4	16.1
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	17.84	19.42	18.20	19.74	20.05	18.34	19.92	18.70	20.24	20.55
	3H	19.28	20.70	19.66	21.03	21.39	19.71	21.14	20.09	21.47	21.83
	4H	19.69	21.03	20.09	21.38	21.76	20.05	21.39	20.45	21.74	22.12
	6H	19.89	21.13	20.30	21.49	21.88	20.18	21.42	20.59	21.78	22.17
	8H	19.91	21.09	20.34	21.48	21.88	20.20	21.38	20.62	21.76	22.16
	12H	19.91	21.04	20.34	21.42	21.85	20.20	21.33	20.63	21.71	22.14
4H	2H	18.44	19.77	18.84	20.12	20.50	18.84	20.18	19.24	20.53	20.91
	3H	20.05	21.16	20.46	21.56	21.96	20.40	21.51	20.81	21.91	22.31
	4H	20.55	21.55	20.98	21.96	22.40	20.82	21.82	21.25	22.23	22.67
	6H	20.82	21.69	21.27	22.13	22.59	21.01	21.88	21.47	22.32	22.78
	8H	20.86	21.67	21.32	22.11	22.58	21.04	21.85	21.50	22.29	22.76
	12H	20.86	21.59	21.35	22.07	22.54	21.06	21.78	21.54	22.26	22.73
8H	4H	20.73	21.54	21.19	21.98	22.45	20.97	21.78	21.44	22.23	22.69
	6H	21.04	21.71	21.54	22.20	22.68	21.20	21.87	21.70	22.36	22.84
	8H	21.10	21.70	21.62	22.21	22.70	21.25	21.85	21.77	22.36	22.85
	12H	21.13	21.66	21.64	22.15	22.72	21.30	21.83	21.81	22.32	22.88
12H	4H	20.72	21.44	21.20	21.92	22.39	20.97	21.69	21.45	22.17	22.64
	6H	21.03	21.63	21.54	22.14	22.63	21.19	21.79	21.71	22.30	22.79
	8H	21.12	21.65	21.63	22.14	22.71	21.27	21.80	21.78	22.29	22.86