

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: P1498864

Luminaire Tested: MAE-G-2-120-3STD-STD-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498864
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-STD-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

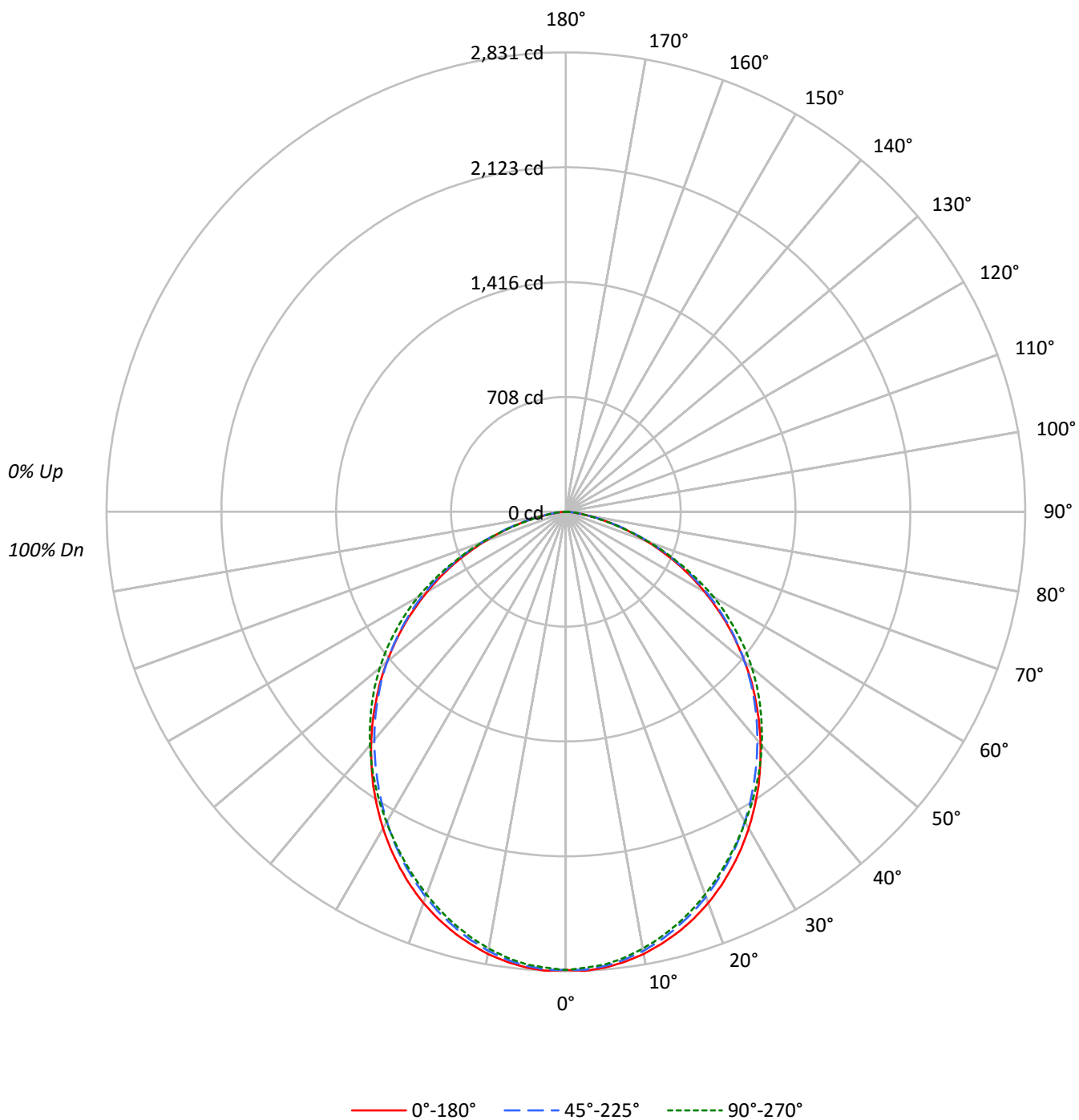
Lumens per Lamp: N/A
Luminaire Lumens: 6941.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.1
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7600	7600	7600
5°	7613	7589	7563
10°	7561	7509	7469
15°	7469	7383	7340
20°	7347	7232	7188
25°	7187	7054	7021
30°	7003	6854	6867
35°	6795	6650	6736
40°	6559	6452	6598
45°	6303	6249	6445
50°	6024	6020	6266
55°	5708	5757	6009
60°	5317	5419	5667
65°	4832	4965	5079
70°	4163	4319	4297
75°	3309	3441	3236
80°	2230	2273	2134
85°	1149	1439	1763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6445 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	3.8
10°-20°	746.7	10.8
20°-30°	1096.0	15.8
30°-40°	1275.3	18.4
40°-50°	1277.5	18.4
50°-60°	1103.6	15.9
60°-70°	768.5	11.1
70°-80°	346.6	5.0
80°-90°	60.8	0.9
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°	2108.6	30.4
0°-40°	3384.0	48.8
0°-60°	5765.1	83.1
0°-90°	6941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2824	2824	2824	2824	2824	
5°	2818	2807	2809	2796	2800	267
15°	2681	2664	2650	2631	2635	756
25°	2420	2398	2376	2356	2365	1114
35°	2068	2041	2024	2032	2050	1292
45°	1656	1636	1642	1673	1694	1278
55°	1217	1202	1227	1266	1281	1086
65°	759	755	780	794	798	750
75°	318	320	331	320	311	342
85°	37	40	47	54	57	55
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2824.2	2824.2	2824.2	2824.2	2824.2
2.5°	2831.2	2819.8	2824.2	2813.8	2811.9
5°	2818.5	2806.7	2809.3	2795.8	2799.7
7.5°	2796.7	2784.0	2783.2	2768.4	2771.8
10°	2766.9	2752.0	2747.9	2730.8	2733.4
12.5°	2727.5	2711.9	2703.6	2684.1	2688.4
15°	2681.1	2663.8	2650.3	2630.8	2634.7
17.5°	2627.4	2608.1	2591.7	2569.2	2575.8
20°	2565.6	2544.8	2525.3	2501.4	2509.9
22.5°	2496.5	2474.4	2452.2	2430.6	2439.0
25°	2420.5	2397.9	2375.9	2356.0	2364.7
27.5°	2340.4	2315.2	2292.9	2278.1	2287.8
30°	2253.8	2227.6	2205.8	2196.0	2209.9
32.5°	2162.3	2136.3	2116.5	2115.0	2131.3
35°	2068.3	2040.9	2024.3	2031.5	2050.4
37.5°	1967.3	1944.0	1931.5	1947.2	1966.4
40°	1867.1	1842.8	1836.6	1857.8	1878.2
42.5°	1763.5	1741.7	1740.4	1768.3	1787.1
45°	1656.3	1636.0	1642.0	1672.9	1693.6
47.5°	1550.9	1530.1	1541.9	1575.8	1598.2
50°	1438.9	1421.6	1438.1	1476.5	1496.8
52.5°	1327.4	1310.9	1333.3	1373.8	1393.5
55°	1216.7	1201.6	1227.0	1266.4	1280.7
57.5°	1102.1	1092.7	1119.2	1154.0	1169.0
60°	988.0	979.8	1006.9	1039.3	1052.9
62.5°	873.7	868.3	894.4	921.1	925.9
65°	758.8	755.0	779.7	794.5	797.6
67.5°	642.5	642.2	665.1	673.2	673.2
70°	529.1	527.5	549.0	551.8	546.2
72.5°	418.9	420.7	435.2	432.9	423.6
75°	318.3	320.2	331.0	320.0	311.2
77.5°	224.7	226.6	232.0	219.7	214.4
80°	143.9	148.3	146.7	141.4	137.7
82.5°	80.5	85.2	83.8	90.7	93.7
85°	37.2	40.2	46.6	54.0	57.1
87.5°	12.7	15.3	19.1	20.5	19.2
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	17.98	19.56	18.34	19.88	20.19	18.36	19.95	18.73	20.26	20.58
	3H	19.43	20.85	19.80	21.18	21.54	19.78	21.21	20.16	21.53	21.90
	4H	19.85	21.18	20.24	21.53	21.91	20.16	21.49	20.56	21.84	22.22
	6H	20.05	21.28	20.46	21.65	22.04	20.32	21.55	20.73	21.92	22.31
	8H	20.07	21.25	20.50	21.64	22.04	20.34	21.52	20.77	21.91	22.31
	12H	20.07	21.20	20.50	21.58	22.01	20.36	21.49	20.79	21.87	22.30
4H	2H	18.56	19.90	18.96	20.25	20.62	18.88	20.21	19.27	20.56	20.94
	3H	20.19	21.30	20.60	21.70	22.10	20.48	21.59	20.89	21.99	22.39
	4H	20.69	21.69	21.12	22.10	22.54	20.94	21.94	21.37	22.35	22.79
	6H	20.97	21.84	21.42	22.28	22.73	21.17	22.04	21.62	22.48	22.94
	8H	21.01	21.82	21.47	22.26	22.73	21.21	22.03	21.68	22.47	22.93
	12H	21.02	21.74	21.50	22.22	22.69	21.25	21.97	21.73	22.45	22.92
8H	4H	20.87	21.69	21.34	22.13	22.60	21.10	21.91	21.56	22.36	22.82
	6H	21.20	21.87	21.70	22.36	22.84	21.38	22.05	21.87	22.54	23.02
	8H	21.27	21.87	21.78	22.38	22.86	21.45	22.05	21.96	22.56	23.05
	12H	21.30	21.83	21.81	22.32	22.88	21.52	22.04	22.02	22.54	23.10
12H	4H	20.87	21.60	21.35	22.07	22.54	21.10	21.82	21.58	22.30	22.77
	6H	21.20	21.80	21.71	22.31	22.79	21.37	21.97	21.88	22.48	22.97
	8H	21.29	21.82	21.80	22.31	22.88	21.48	22.01	21.99	22.50	23.06