

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: METALUX

Report Number: P601505

Luminaire Tested: 22CGSB-70-L850

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601505  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/24/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: METALUX  
Catalog Number: 22CGSB-70-L850  
Description: 2x2 CGSB AT 7000lm 5000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

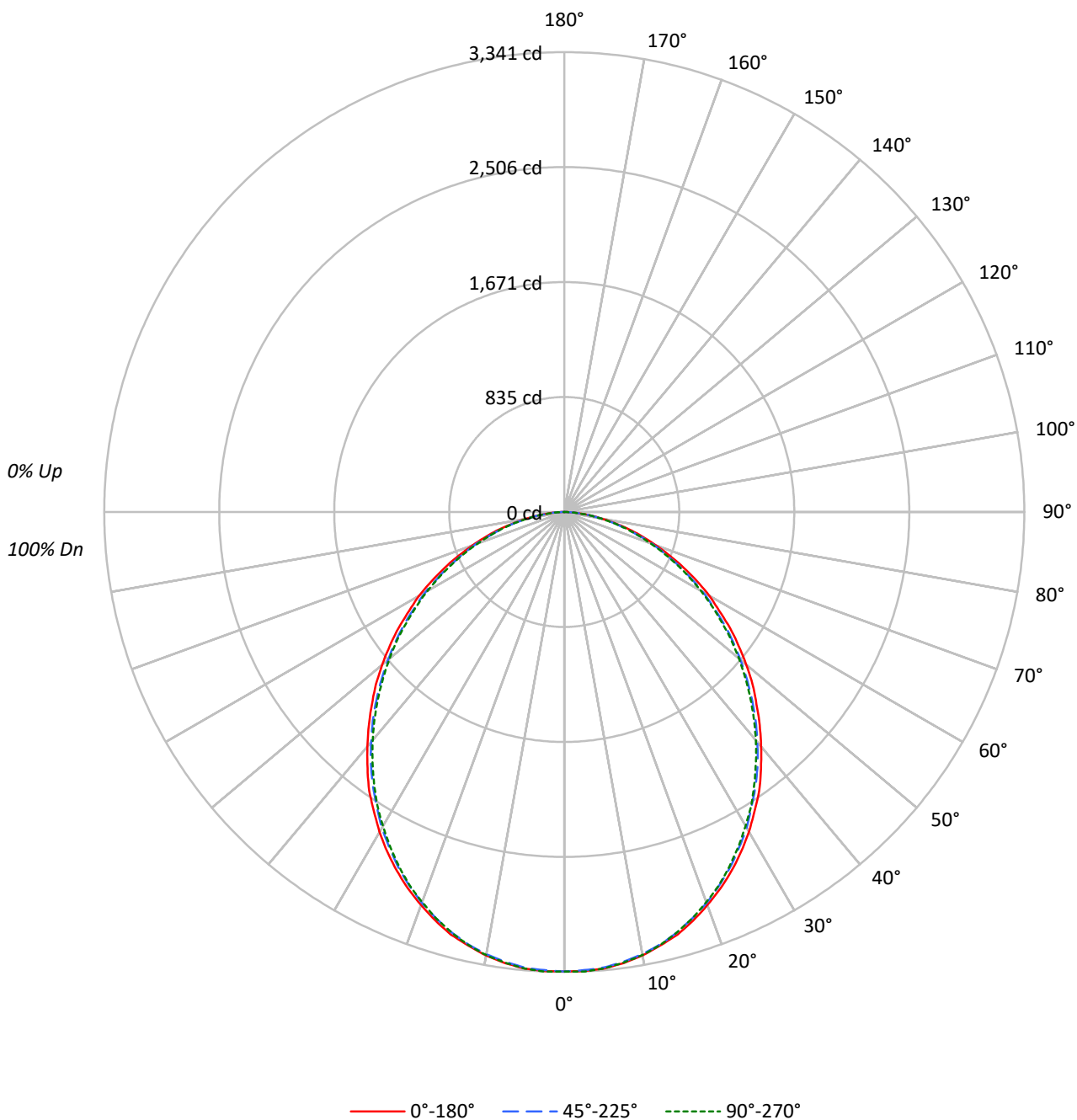
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8341.0 lumens  
Efficiency: N/A  
Efficacy: 132.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 63  
Input Voltage (V): 120  
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

TEST NUMBER: P601505  
CATALOG NUMBER: 22CGSB-70-L850

### Luminous Intensity Polar Plot





TEST NUMBER: P601505  
 CATALOG NUMBER: 22CGSB-70-L850

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85				
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71				
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61				
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52				
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45				
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40				
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36				
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8982	8982	8982
5°	8990	8971	8990
10°	8939	8912	8930
15°	8854	8808	8808
20°	8702	8654	8635
25°	8538	8460	8430
30°	8337	8233	8182
35°	8114	7962	7907
40°	7813	7661	7603
45°	7515	7338	7275
50°	7223	6987	6931
55°	6894	6645	6551
60°	6549	6262	6173
65°	6097	5800	5737
70°	5571	5362	5231
75°	5081	4770	4805
80°	4379	4122	4173
85°	3387	3285	3078

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7515 cd/sqm



TEST NUMBER: P601505  
 CATALOG NUMBER: 22CGSB-70-L850

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.3	3.8
10°-20°	891.5	10.7
20°-30°	1313.0	15.7
30°-40°	1518.9	18.2
40°-50°	1493.3	17.9
50°-60°	1272.6	15.3
60°-70°	911.9	10.9
70°-80°	495.3	5.9
80°-90°	129.2	1.5
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°	2519.9	30.2
0°-40°	4038.8	48.4
0°-60°	6804.7	81.6
0°-90°	8341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8341.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3338	3338	3338	3338	3338	
5°	3328	3321	3321	3321	3328	316
15°	3178	3165	3162	3158	3162	895
25°	2876	2862	2849	2842	2839	1324
35°	2470	2450	2424	2410	2407	1540
45°	1975	1962	1928	1912	1912	1525
55°	1470	1443	1416	1400	1396	1312
65°	958	938	911	901	901	948
75°	489	472	459	452	462	516
85°	110	110	106	103	100	133
90°	0	0	0	0	0	



TEST NUMBER: P601505  
 CATALOG NUMBER: 22CGSB-70-L850

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3337.9	3337.9	3337.9	3337.9	3337.9
2.5°	3337.9	3334.5	3331.2	3334.5	3341.2
5°	3327.9	3321.2	3321.2	3321.2	3327.9
7.5°	3304.6	3298.0	3294.6	3298.0	3301.3
10°	3271.4	3264.7	3261.4	3264.7	3268.0
12.5°	3224.8	3221.5	3218.2	3218.2	3221.5
15°	3178.3	3165.0	3161.7	3158.3	3161.7
17.5°	3111.8	3108.5	3095.2	3095.2	3095.2
20°	3038.7	3032.0	3022.0	3015.4	3015.4
22.5°	2962.2	2955.5	2938.9	2932.3	2935.6
25°	2875.7	2862.4	2849.2	2842.5	2839.2
27.5°	2782.7	2769.4	2749.4	2739.4	2739.4
30°	2682.9	2672.9	2649.7	2636.4	2633.1
32.5°	2573.2	2566.6	2533.3	2526.7	2526.7
35°	2470.1	2450.2	2423.6	2410.3	2407.0
37.5°	2347.1	2333.8	2307.2	2290.6	2287.3
40°	2224.1	2207.5	2180.9	2167.6	2164.3
42.5°	2101.1	2084.5	2057.9	2041.3	2038.0
45°	1974.8	1961.5	1928.2	1911.6	1911.6
47.5°	1855.1	1828.5	1798.6	1785.3	1782.0
50°	1725.4	1702.2	1668.9	1655.6	1655.6
52.5°	1595.8	1579.2	1542.6	1535.9	1529.3
55°	1469.5	1442.9	1416.3	1399.6	1396.3
57.5°	1333.1	1309.9	1283.3	1270.0	1270.0
60°	1216.8	1186.9	1163.6	1147.0	1147.0
62.5°	1083.8	1057.2	1033.9	1024.0	1020.6
65°	957.5	937.5	910.9	901.0	901.0
67.5°	831.1	814.5	791.2	781.3	784.6
70°	708.1	698.2	681.5	668.2	664.9
72.5°	595.1	581.8	565.2	561.9	561.9
75°	488.7	472.1	458.8	452.1	462.1
77.5°	379.0	369.0	362.4	359.1	362.4
80°	282.6	269.3	266.0	269.3	269.3
82.5°	196.1	189.5	186.2	186.2	186.2
85°	109.7	109.7	106.4	103.1	99.7
87.5°	43.2	43.2	46.5	46.5	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)