

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: P601434

Luminaire Tested: 22CGSB-20-L930

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601434  
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-20-L930  
Description: 2x2 CGSB AT 2000lm 3000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

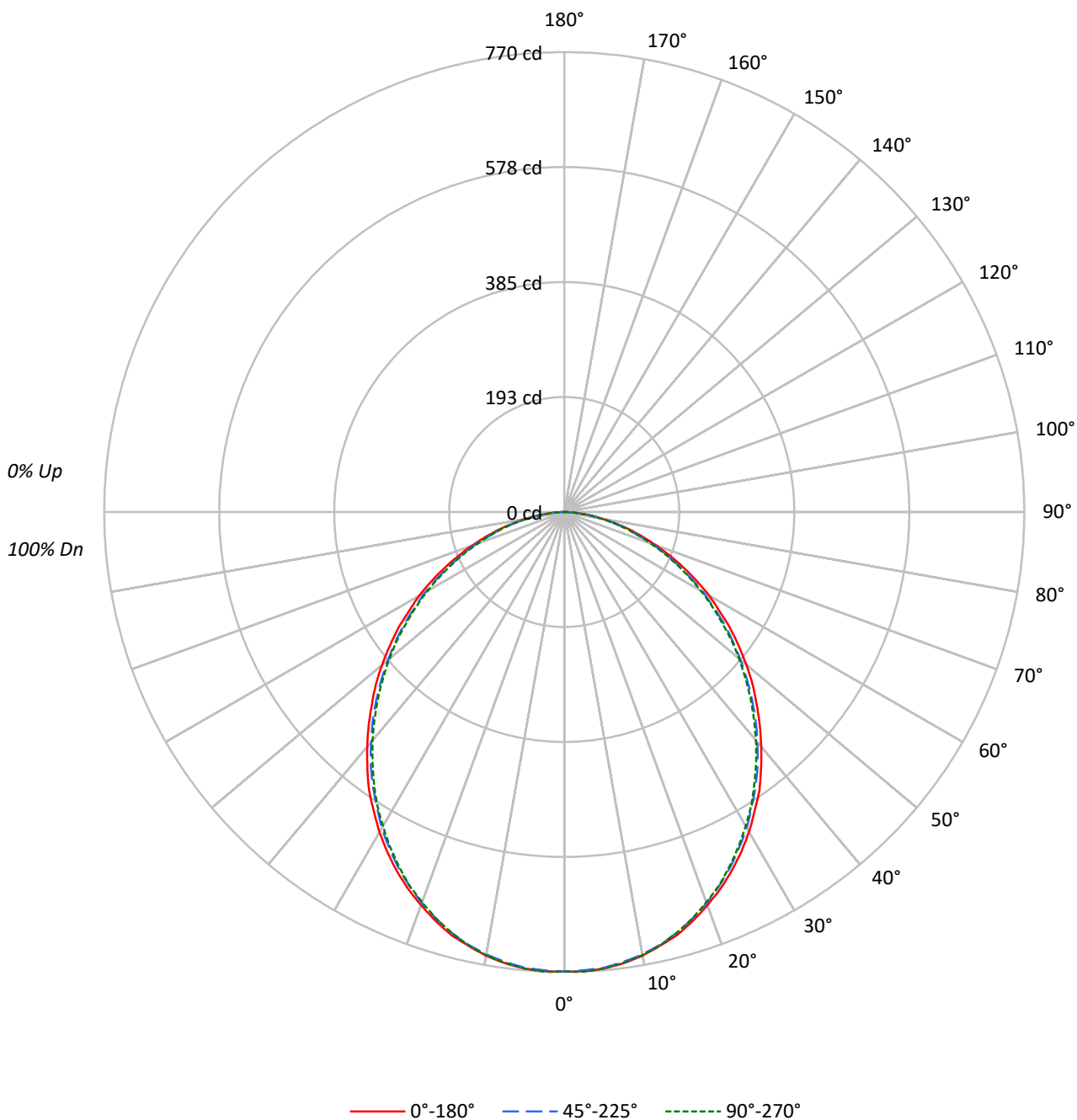
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1923.0 lumens  
Efficiency: N/A  
Efficacy: 113.8 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): 16.9  
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

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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	0
RW	70	50	30	10	70	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°	2071	2071	2071
5°	2072	2068	2072
10°	2061	2055	2059
15°	2041	2031	2031
20°	2006	1995	1991
25°	1969	1950	1944
30°	1922	1898	1886
35°	1871	1836	1823
40°	1801	1766	1753
45°	1733	1692	1677
50°	1665	1611	1598
55°	1590	1532	1510
60°	1510	1444	1423
65°	1405	1337	1323
70°	1285	1236	1206
75°	1172	1100	1107
80°	1010	950	962
85°	781	756	710

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1733 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.7	3.8
10°-20°	205.5	10.7
20°-30°	302.7	15.7
30°-40°	350.2	18.2
40°-50°	344.3	17.9
50°-60°	293.4	15.3
60°-70°	210.2	10.9
70°-80°	114.2	5.9
80°-90°	29.8	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°	580.9	30.2
0°-40°	931.1	48.4
0°-60°	1568.8	81.6
0°-90°	1923.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1923.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	767	766	766	766	767	73
15°	733	730	729	728	729	206
25°	663	660	657	655	655	305
35°	570	565	559	556	555	355
45°	455	452	445	441	441	352
55°	339	333	326	323	322	303
65°	221	216	210	208	208	219
75°	113	109	106	104	106	119
85°	25	25	24	24	23	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	769.5	769.5	769.5	769.5	769.5
2.5°	769.5	768.8	768.0	768.8	770.3
5°	767.2	765.7	765.7	765.7	767.2
7.5°	761.9	760.3	759.6	760.3	761.1
10°	754.2	752.7	751.9	752.7	753.4
12.5°	743.5	742.7	741.9	741.9	742.7
15°	732.7	729.7	728.9	728.1	728.9
17.5°	717.4	716.7	713.6	713.6	713.6
20°	700.6	699.0	696.7	695.2	695.2
22.5°	682.9	681.4	677.6	676.0	676.8
25°	663.0	659.9	656.9	655.3	654.6
27.5°	641.5	638.5	633.9	631.6	631.6
30°	618.5	616.2	610.9	607.8	607.0
32.5°	593.2	591.7	584.1	582.5	582.5
35°	569.5	564.9	558.8	555.7	554.9
37.5°	541.1	538.1	531.9	528.1	527.3
40°	512.8	508.9	502.8	499.7	499.0
42.5°	484.4	480.6	474.4	470.6	469.8
45°	455.3	452.2	444.6	440.7	440.7
47.5°	427.7	421.6	414.7	411.6	410.8
50°	397.8	392.4	384.8	381.7	381.7
52.5°	367.9	364.1	355.6	354.1	352.6
55°	338.8	332.6	326.5	322.7	321.9
57.5°	307.4	302.0	295.9	292.8	292.8
60°	280.5	273.6	268.3	264.4	264.4
62.5°	249.9	243.7	238.4	236.1	235.3
65°	220.7	216.1	210.0	207.7	207.7
67.5°	191.6	187.8	182.4	180.1	180.9
70°	163.3	161.0	157.1	154.1	153.3
72.5°	137.2	134.1	130.3	129.5	129.5
75°	112.7	108.8	105.8	104.2	106.5
77.5°	87.4	85.1	83.5	82.8	83.5
80°	65.2	62.1	61.3	62.1	62.1
82.5°	45.2	43.7	42.9	42.9	42.9
85°	25.3	25.3	24.5	23.8	23.0
87.5°	10.0	10.0	10.7	10.7	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)