

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: P601430

Luminaire Tested: 22CGSB-20-L830

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601430  
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-L830  
Description: 2x2 CGSB AT 2000lm 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

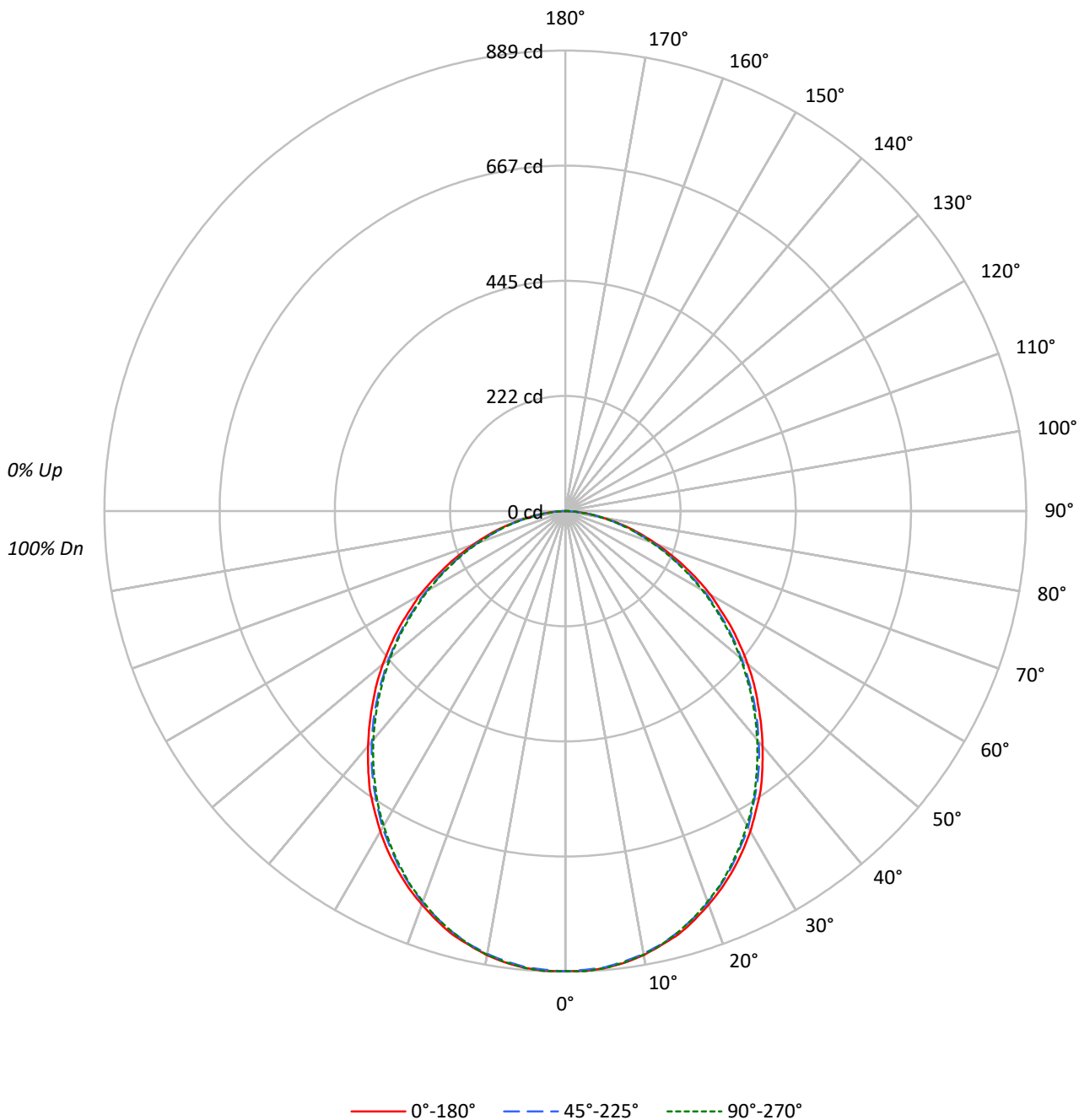
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2219.0 lumens  
Efficiency: N/A  
Efficacy: 131.3 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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CATALOG NUMBER: 22CGSB-20-L830

### 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°	2390	2390	2390
5°	2391	2387	2391
10°	2378	2371	2376
15°	2355	2343	2343
20°	2315	2302	2297
25°	2271	2251	2243
30°	2218	2190	2177
35°	2159	2118	2103
40°	2079	2038	2023
45°	1999	1952	1936
50°	1922	1859	1844
55°	1834	1768	1743
60°	1742	1666	1642
65°	1622	1543	1526
70°	1482	1426	1392
75°	1352	1269	1278
80°	1165	1097	1110
85°	902	874	818

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1999 cd/sqm



TEST NUMBER: P601430  
 CATALOG NUMBER: 22CGSB-20-L830

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	3.8
10°-20°	237.2	10.7
20°-30°	349.3	15.7
30°-40°	404.1	18.2
40°-50°	397.3	17.9
50°-60°	338.6	15.3
60°-70°	242.6	10.9
70°-80°	131.8	5.9
80°-90°	34.4	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°	670.4	30.2
0°-40°	1074.5	48.4
0°-60°	1810.3	81.6
0°-90°	2219.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2219.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	885	884	884	884	885	84
15°	846	842	841	840	841	238
25°	765	762	758	756	755	352
35°	657	652	645	641	640	410
45°	525	522	513	509	509	406
55°	391	384	377	372	372	349
65°	255	249	242	240	240	252
75°	130	126	122	120	123	137
85°	29	29	28	27	26	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	888.0	888.0	888.0	888.0	888.0
2.5°	888.0	887.1	886.2	887.1	888.9
5°	885.3	883.6	883.6	883.6	885.3
7.5°	879.1	877.4	876.5	877.4	878.3
10°	870.3	868.5	867.6	868.5	869.4
12.5°	857.9	857.0	856.1	856.1	857.0
15°	845.5	842.0	841.1	840.2	841.1
17.5°	827.8	827.0	823.4	823.4	823.4
20°	808.4	806.6	804.0	802.2	802.2
22.5°	788.0	786.3	781.9	780.1	781.0
25°	765.0	761.5	758.0	756.2	755.3
27.5°	740.3	736.7	731.4	728.8	728.8
30°	713.8	711.1	704.9	701.4	700.5
32.5°	684.6	682.8	674.0	672.2	672.2
35°	657.1	651.8	644.8	641.2	640.3
37.5°	624.4	620.9	613.8	609.4	608.5
40°	591.7	587.3	580.2	576.7	575.8
42.5°	559.0	554.6	547.5	543.1	542.2
45°	525.4	521.8	513.0	508.6	508.6
47.5°	493.5	486.4	478.5	475.0	474.1
50°	459.0	452.8	444.0	440.5	440.5
52.5°	424.5	420.1	410.4	408.6	406.8
55°	390.9	383.9	376.8	372.4	371.5
57.5°	354.7	348.5	341.4	337.9	337.9
60°	323.7	315.7	309.6	305.1	305.1
62.5°	288.3	281.3	275.1	272.4	271.5
65°	254.7	249.4	242.3	239.7	239.7
67.5°	221.1	216.7	210.5	207.8	208.7
70°	188.4	185.7	181.3	177.8	176.9
72.5°	158.3	154.8	150.4	149.5	149.5
75°	130.0	125.6	122.1	120.3	122.9
77.5°	100.8	98.2	96.4	95.5	96.4
80°	75.2	71.6	70.8	71.6	71.6
82.5°	52.2	50.4	49.5	49.5	49.5
85°	29.2	29.2	28.3	27.4	26.5
87.5°	11.5	11.5	12.4	12.4	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)