

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: P601479

Luminaire Tested: 22CGSB-50-L835

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601479  
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-50-L835  
Description: 2x2 CGSB AT 5000lm 3500K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

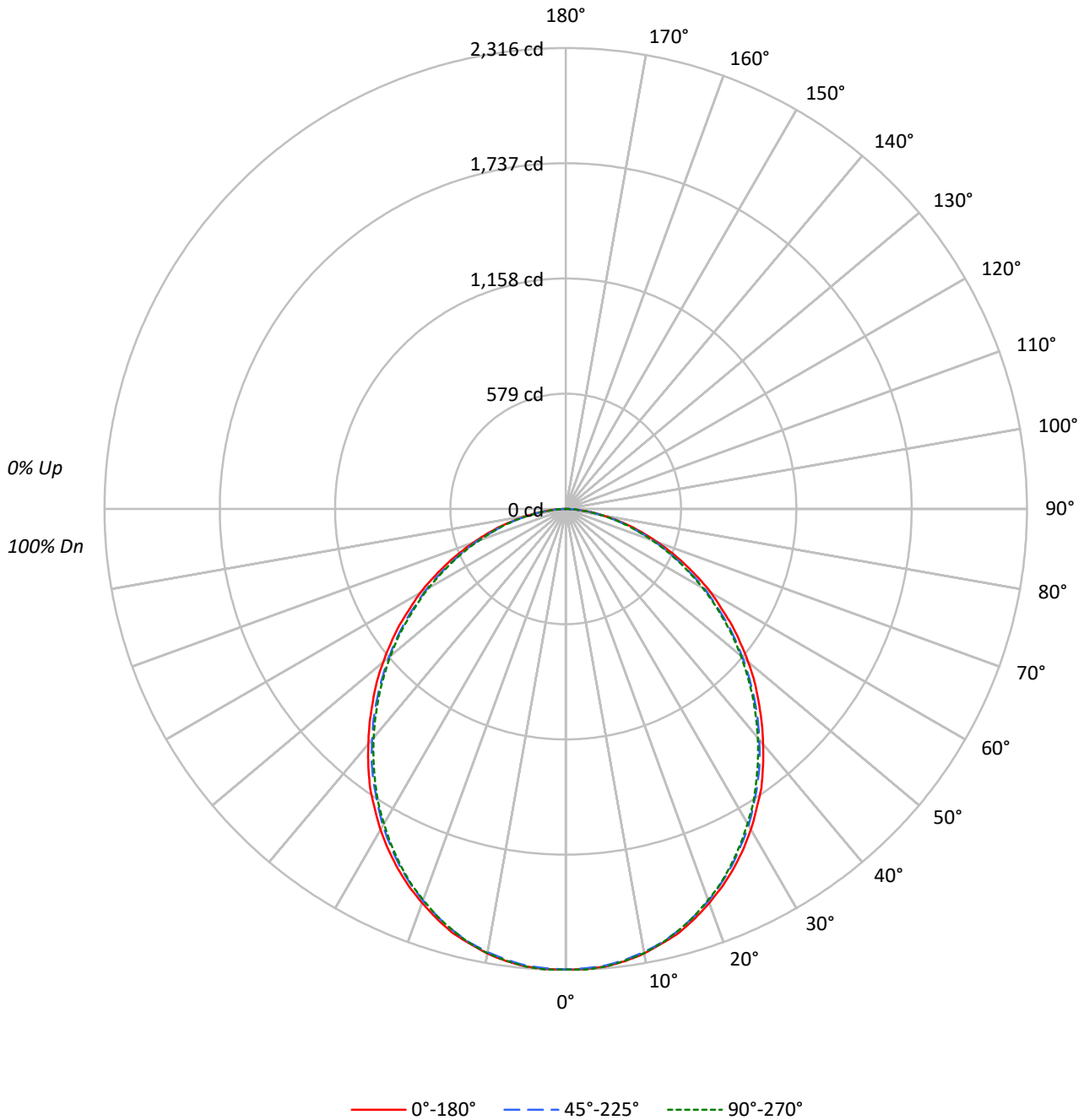
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5783.0 lumens  
Efficiency: N/A  
Efficacy: 136.1 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): 42.5  
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: P601479  
CATALOG NUMBER: 22CGSB-50-L835

### Luminous Intensity Polar Plot





TEST NUMBER: P601479  
 CATALOG NUMBER: 22CGSB-50-L835

**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	
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°	6227	6227	6227
5°	6233	6220	6233
10°	6198	6179	6191
15°	6139	6107	6107
20°	6033	6000	5987
25°	5920	5865	5845
30°	5780	5708	5673
35°	5626	5520	5482
40°	5417	5312	5271
45°	5211	5088	5044
50°	5008	4844	4806
55°	4780	4607	4542
60°	4540	4342	4280
65°	4227	4022	3978
70°	3863	3718	3627
75°	3523	3307	3331
80°	3036	2858	2893
85°	2350	2279	2133

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5211 cd/sqm



TEST NUMBER: P601479  
 CATALOG NUMBER: 22CGSB-50-L835

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	218.6	3.8
10°-20°	618.1	10.7
20°-30°	910.4	15.7
30°-40°	1053.1	18.2
40°-50°	1035.3	17.9
50°-60°	882.3	15.3
60°-70°	632.2	10.9
70°-80°	343.4	5.9
80°-90°	89.6	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°	1747.1	30.2
0°-40°	2800.2	48.4
0°-60°	4717.9	81.6
0°-90°	5783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5783.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2314	2314	2314	2314	2314	
5°	2307	2303	2303	2303	2307	219
15°	2204	2194	2192	2190	2192	620
25°	1994	1985	1975	1971	1968	918
35°	1713	1699	1680	1671	1669	1068
45°	1369	1360	1337	1325	1325	1058
55°	1019	1000	982	970	968	910
65°	664	650	632	625	625	658
75°	339	327	318	314	320	358
85°	76	76	74	72	69	92
90°	0	0	0	0	0	



TEST NUMBER: P601479  
 CATALOG NUMBER: 22CGSB-50-L835

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2314.2	2314.2	2314.2	2314.2	2314.2
2.5°	2314.2	2311.9	2309.6	2311.9	2316.5
5°	2307.3	2302.7	2302.7	2302.7	2307.3
7.5°	2291.2	2286.6	2284.2	2286.6	2288.9
10°	2268.1	2263.5	2261.2	2263.5	2265.8
12.5°	2235.8	2233.5	2231.2	2231.2	2233.5
15°	2203.6	2194.4	2192.0	2189.7	2192.0
17.5°	2157.5	2155.2	2145.9	2145.9	2145.9
20°	2106.8	2102.2	2095.2	2090.6	2090.6
22.5°	2053.7	2049.1	2037.6	2033.0	2035.3
25°	1993.8	1984.6	1975.4	1970.8	1968.5
27.5°	1929.3	1920.1	1906.2	1899.3	1899.3
30°	1860.1	1853.2	1837.1	1827.9	1825.6
32.5°	1784.1	1779.5	1756.4	1751.8	1751.8
35°	1712.6	1698.8	1680.3	1671.1	1668.8
37.5°	1627.3	1618.1	1599.7	1588.1	1585.8
40°	1542.0	1530.5	1512.1	1502.9	1500.6
42.5°	1456.8	1445.2	1426.8	1415.3	1413.0
45°	1369.2	1359.9	1336.9	1325.4	1325.4
47.5°	1286.2	1267.7	1247.0	1237.8	1235.5
50°	1196.3	1180.2	1157.1	1147.9	1147.9
52.5°	1106.4	1094.9	1069.5	1064.9	1060.3
55°	1018.8	1000.4	981.9	970.4	968.1
57.5°	924.3	908.2	889.7	880.5	880.5
60°	843.6	822.9	806.7	795.2	795.2
62.5°	751.4	733.0	716.9	709.9	707.6
65°	663.8	650.0	631.6	624.7	624.7
67.5°	576.2	564.7	548.6	541.7	544.0
70°	491.0	484.0	472.5	463.3	461.0
72.5°	412.6	403.4	391.8	389.5	389.5
75°	338.8	327.3	318.1	313.5	320.4
77.5°	262.8	255.9	251.2	248.9	251.2
80°	195.9	186.7	184.4	186.7	186.7
82.5°	136.0	131.4	129.1	129.1	129.1
85°	76.1	76.1	73.8	71.5	69.1
87.5°	30.0	30.0	32.3	32.3	34.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)