

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: P601486

Luminaire Tested: 22CGSB-55-L830

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601486  
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-55-L830  
Description: 2x2 CGSB AT 5500lm 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

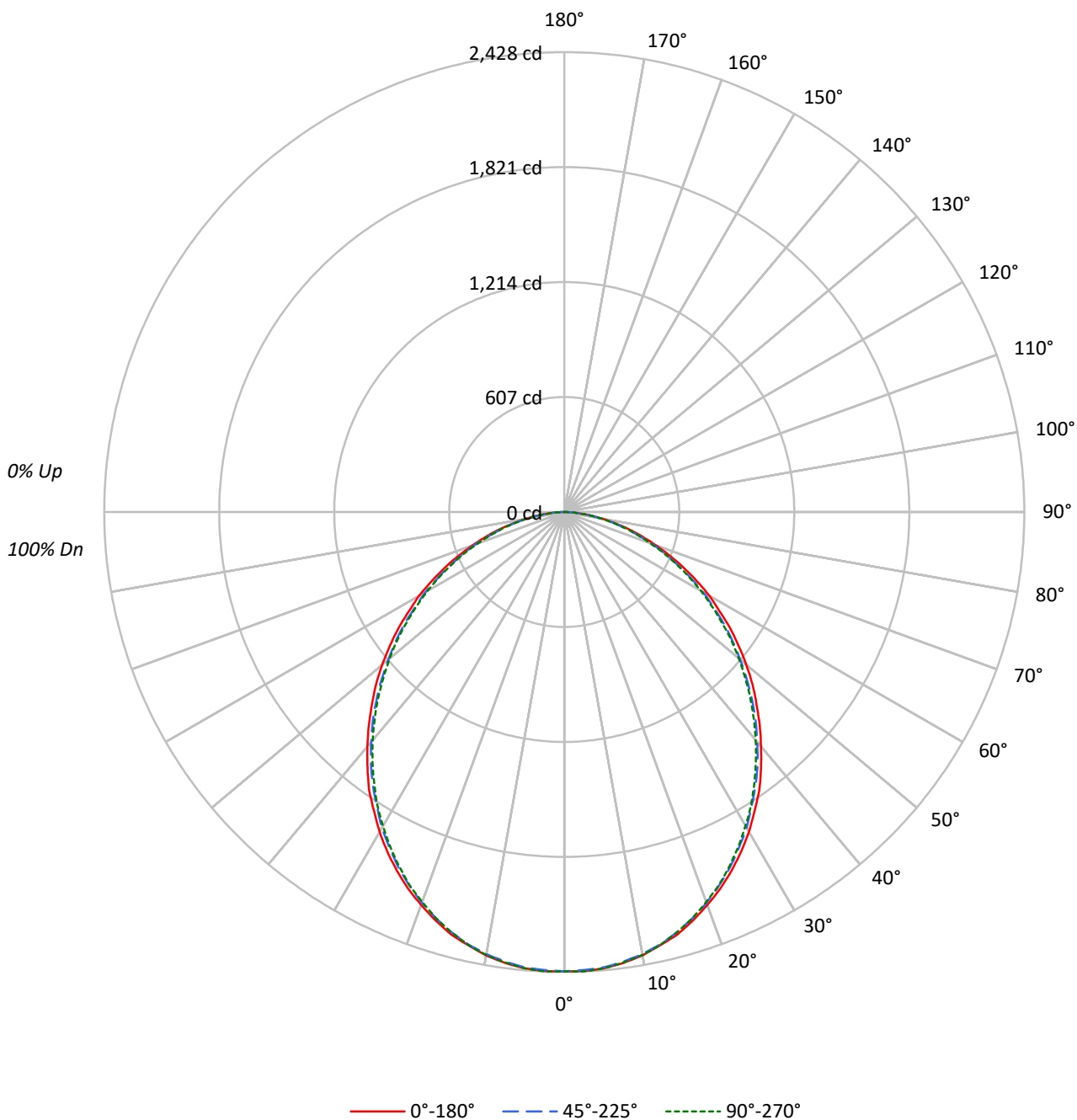
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6060.0 lumens  
Efficiency: N/A  
Efficacy: 131.2 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): 46.2  
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°	6526	6526	6526
5°	6531	6518	6531
10°	6495	6475	6488
15°	6433	6399	6399
20°	6322	6287	6274
25°	6203	6146	6125
30°	6057	5982	5944
35°	5895	5784	5745
40°	5676	5566	5524
45°	5460	5331	5286
50°	5248	5076	5036
55°	5009	4828	4760
60°	4758	4550	4485
65°	4429	4214	4168
70°	4048	3896	3801
75°	3692	3465	3490
80°	3181	2994	3031
85°	2461	2387	2238

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5460 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.1	3.8
10°-20°	647.7	10.7
20°-30°	954.0	15.7
30°-40°	1103.5	18.2
40°-50°	1084.9	17.9
50°-60°	924.6	15.3
60°-70°	662.5	10.9
70°-80°	359.8	5.9
80°-90°	93.9	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°	1830.8	30.2
0°-40°	2934.3	48.4
0°-60°	4943.8	81.6
0°-90°	6060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6060.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2425	2425	2425	2425	2425	
5°	2418	2413	2413	2413	2418	229
15°	2309	2300	2297	2295	2297	650
25°	2089	2080	2070	2065	2063	962
35°	1795	1780	1761	1751	1749	1119
45°	1435	1425	1401	1389	1389	1108
55°	1068	1048	1029	1017	1014	953
65°	696	681	662	655	655	689
75°	355	343	333	328	336	375
85°	80	80	77	75	72	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2425.1	2425.1	2425.1	2425.1	2425.1
2.5°	2425.1	2422.6	2420.2	2422.6	2427.5
5°	2417.8	2413.0	2413.0	2413.0	2417.8
7.5°	2400.9	2396.1	2393.7	2396.1	2398.5
10°	2376.8	2371.9	2369.5	2371.9	2374.3
12.5°	2342.9	2340.5	2338.1	2338.1	2340.5
15°	2309.1	2299.5	2297.0	2294.6	2297.0
17.5°	2260.8	2258.4	2248.7	2248.7	2248.7
20°	2207.7	2202.8	2195.6	2190.8	2190.8
22.5°	2152.1	2147.3	2135.2	2130.4	2132.8
25°	2089.3	2079.7	2070.0	2065.2	2062.8
27.5°	2021.7	2012.0	1997.5	1990.3	1990.3
30°	1949.2	1942.0	1925.1	1915.4	1913.0
32.5°	1869.5	1864.7	1840.5	1835.7	1835.7
35°	1794.6	1780.1	1760.8	1751.2	1748.7
37.5°	1705.3	1695.6	1676.3	1664.2	1661.8
40°	1615.9	1603.8	1584.5	1574.8	1572.4
42.5°	1526.5	1514.5	1495.1	1483.1	1480.6
45°	1434.7	1425.1	1400.9	1388.9	1388.9
47.5°	1347.8	1328.5	1306.7	1297.1	1294.7
50°	1253.6	1236.7	1212.5	1202.9	1202.9
52.5°	1159.4	1147.3	1120.7	1115.9	1111.1
55°	1067.6	1048.3	1029.0	1016.9	1014.5
57.5°	968.6	951.7	932.3	922.7	922.7
60°	884.0	862.3	845.4	833.3	833.3
62.5°	787.4	768.1	751.2	743.9	741.5
65°	695.6	681.1	661.8	654.6	654.6
67.5°	603.8	591.8	574.9	567.6	570.0
70°	514.5	507.2	495.2	485.5	483.1
72.5°	432.4	422.7	410.6	408.2	408.2
75°	355.1	343.0	333.3	328.5	335.7
77.5°	275.4	268.1	263.3	260.9	263.3
80°	205.3	195.6	193.2	195.6	195.6
82.5°	142.5	137.7	135.3	135.3	135.3
85°	79.7	79.7	77.3	74.9	72.5
87.5°	31.4	31.4	33.8	33.8	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)