

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: P601480

Luminaire Tested: 22CGSB-50-L840

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601480  
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-L840  
Description: 2x2 CGSB AT 5000lm 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

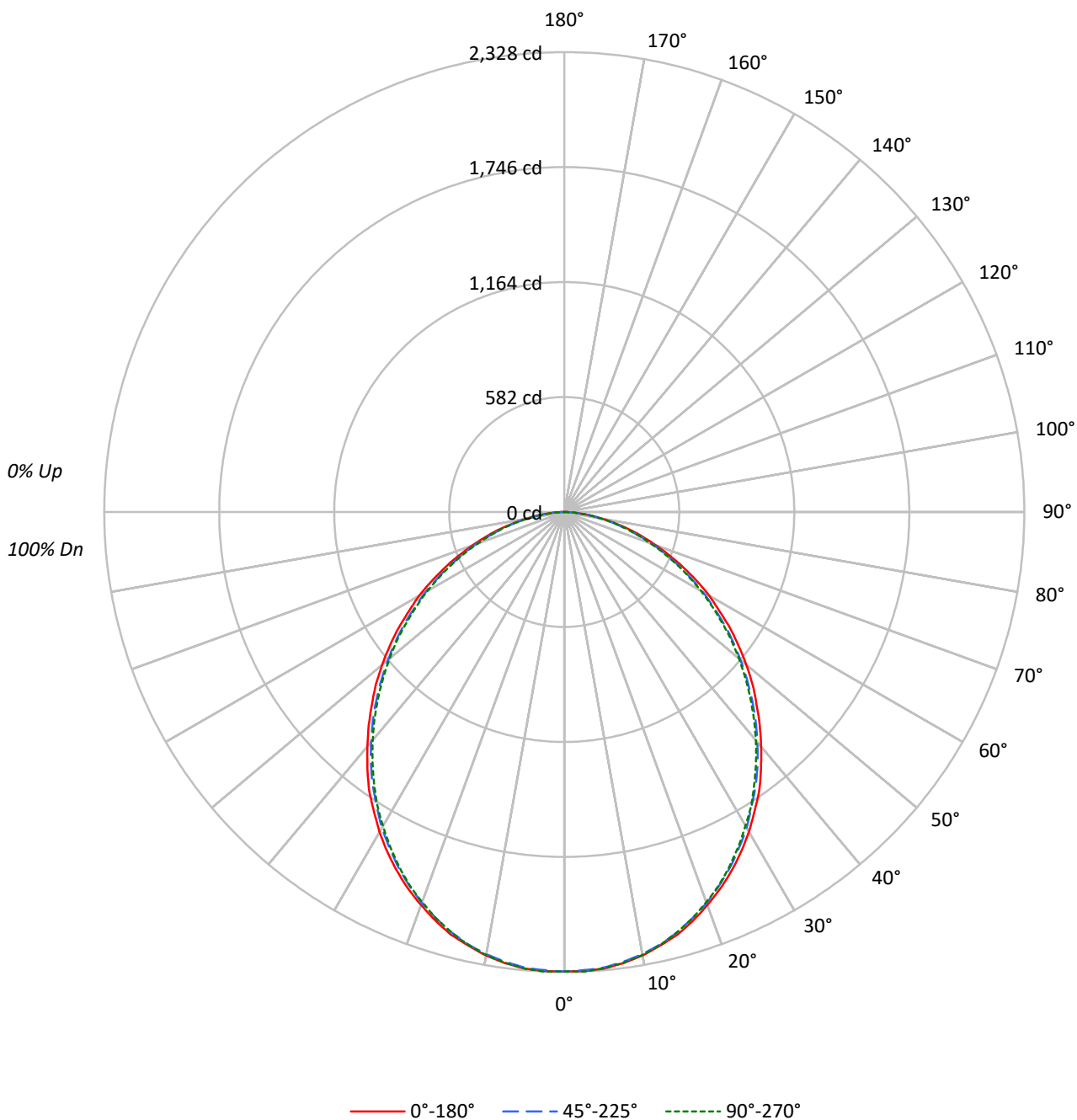
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5812.0 lumens  
Efficiency: N/A  
Efficacy: 136.8 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): 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

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### Luminous Intensity Polar Plot





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

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

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

	0°	45°	90°
0°	6259	6259	6259
5°	6264	6251	6264
10°	6229	6210	6222
15°	6170	6137	6137
20°	6063	6030	6017
25°	5950	5895	5874
30°	5809	5737	5701
35°	5654	5548	5510
40°	5444	5338	5298
45°	5237	5113	5069
50°	5033	4868	4829
55°	4804	4630	4565
60°	4563	4364	4301
65°	4248	4041	3997
70°	3882	3736	3645
75°	3540	3324	3348
80°	3051	2872	2907
85°	2359	2288	2146

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5237 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.7	3.8
10°-20°	621.2	10.7
20°-30°	914.9	15.7
30°-40°	1058.4	18.2
40°-50°	1040.5	17.9
50°-60°	886.8	15.3
60°-70°	635.4	10.9
70°-80°	345.1	5.9
80°-90°	90.0	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°	1755.8	30.2
0°-40°	2814.2	48.4
0°-60°	4741.5	81.6
0°-90°	5812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5812.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2319	2314	2314	2314	2319	220
15°	2215	2205	2203	2201	2203	623
25°	2004	1995	1985	1981	1978	922
35°	1721	1707	1689	1680	1677	1073
45°	1376	1367	1344	1332	1332	1063
55°	1024	1005	987	975	973	914
65°	667	653	635	628	628	661
75°	340	329	320	315	322	360
85°	76	76	74	72	70	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2325.8	2325.8	2325.8	2325.8	2325.8
2.5°	2325.8	2323.5	2321.2	2323.5	2328.1
5°	2318.9	2314.2	2314.2	2314.2	2318.9
7.5°	2302.7	2298.0	2295.7	2298.0	2300.3
10°	2279.5	2274.9	2272.5	2274.9	2277.2
12.5°	2247.1	2244.7	2242.4	2242.4	2244.7
15°	2214.6	2205.4	2203.0	2200.7	2203.0
17.5°	2168.3	2166.0	2156.7	2156.7	2156.7
20°	2117.3	2112.7	2105.7	2101.1	2101.1
22.5°	2064.0	2059.4	2047.8	2043.2	2045.5
25°	2003.8	1994.6	1985.3	1980.7	1978.3
27.5°	1939.0	1929.7	1915.8	1908.8	1908.8
30°	1869.5	1862.5	1846.3	1837.0	1834.7
32.5°	1793.0	1788.4	1765.2	1760.6	1760.6
35°	1721.2	1707.3	1688.8	1679.5	1677.2
37.5°	1635.5	1626.2	1607.7	1596.1	1593.8
40°	1549.8	1538.2	1519.7	1510.4	1508.1
42.5°	1464.1	1452.5	1433.9	1422.4	1420.0
45°	1376.0	1366.8	1343.6	1332.0	1332.0
47.5°	1292.6	1274.1	1253.3	1244.0	1241.7
50°	1202.3	1186.1	1162.9	1153.6	1153.6
52.5°	1111.9	1100.4	1074.9	1070.2	1065.6
55°	1023.9	1005.4	986.9	975.3	973.0
57.5°	928.9	912.7	894.2	884.9	884.9
60°	847.9	827.0	810.8	799.2	799.2
62.5°	755.2	736.7	720.4	713.5	711.2
65°	667.2	653.3	634.7	627.8	627.8
67.5°	579.1	567.6	551.3	544.4	546.7
70°	493.4	486.5	474.9	465.6	463.3
72.5°	414.7	405.4	393.8	391.5	391.5
75°	340.5	329.0	319.7	315.1	322.0
77.5°	264.1	257.1	252.5	250.2	252.5
80°	196.9	187.6	185.3	187.6	187.6
82.5°	136.7	132.0	129.7	129.7	129.7
85°	76.4	76.4	74.1	71.8	69.5
87.5°	30.1	30.1	32.4	32.4	34.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)