

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: P601484

Luminaire Tested: 22CGSB-50-L940

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601484  
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-L940  
Description: 2x2 CGSB AT 5000lm 4000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

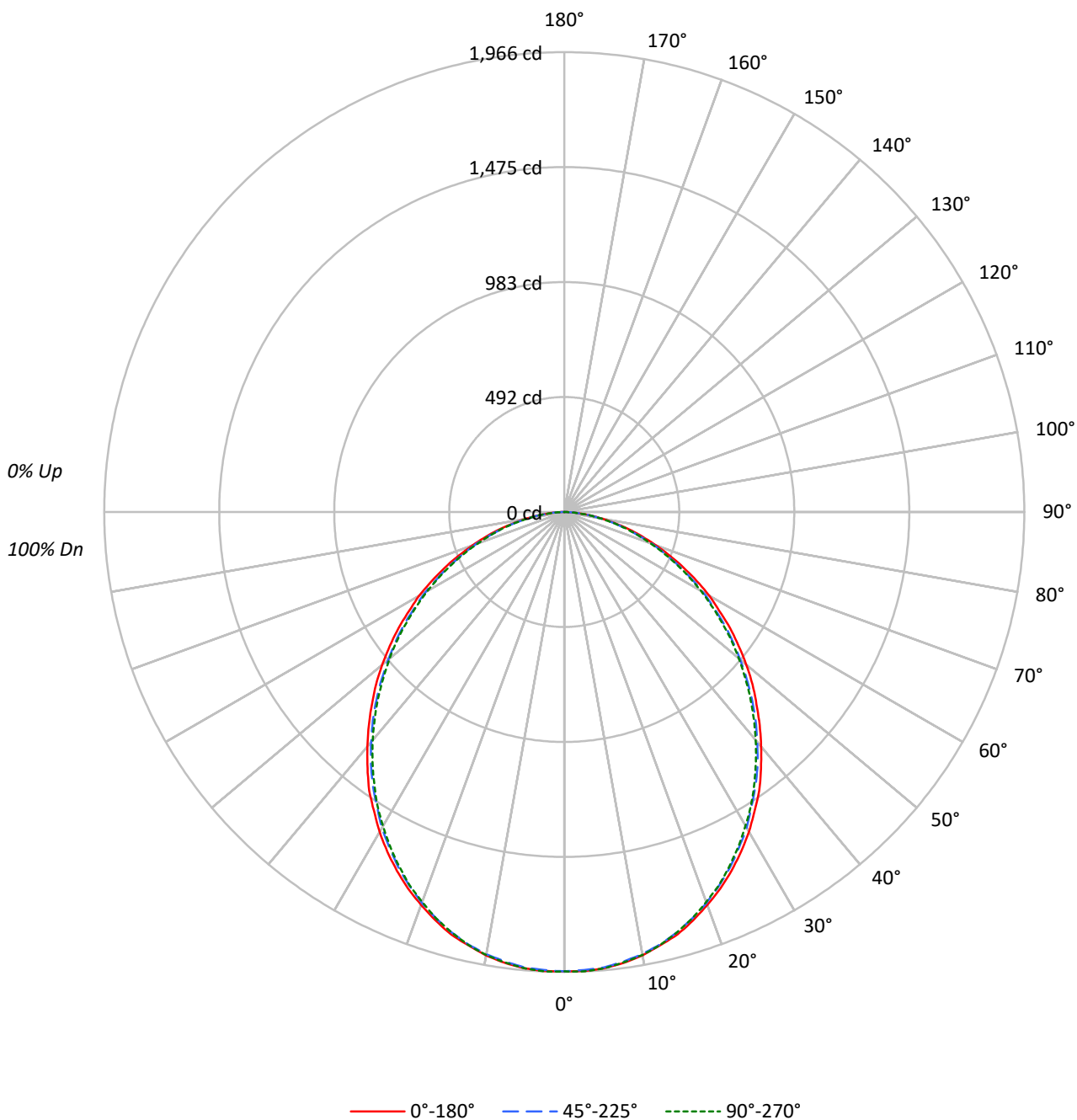
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4907.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 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					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	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100				
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85				85				
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71				71				
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61				61				
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52				52				
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45				45				
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40				40				
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36				36				
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32				32				
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29				29				
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26				26				

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

	0°	45°	90°
0°	5284	5284	5284
5°	5289	5278	5289
10°	5259	5243	5253
15°	5209	5182	5182
20°	5119	5091	5080
25°	5023	4977	4959
30°	4905	4844	4813
35°	4774	4684	4652
40°	4597	4507	4473
45°	4421	4317	4280
50°	4250	4110	4078
55°	4056	3909	3854
60°	3852	3684	3632
65°	3587	3412	3375
70°	3278	3154	3078
75°	2989	2806	2827
80°	2576	2425	2455
85°	1991	1933	1812

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4421 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.5	3.8
10°-20°	524.5	10.7
20°-30°	772.5	15.7
30°-40°	893.6	18.2
40°-50°	878.5	17.9
50°-60°	748.7	15.3
60°-70°	536.4	10.9
70°-80°	291.3	5.9
80°-90°	76.0	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°	1482.4	30.2
0°-40°	2376.0	48.4
0°-60°	4003.2	81.6
0°-90°	4907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4907.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1964	1964	1964	1964	1964	
5°	1958	1954	1954	1954	1958	186
15°	1870	1862	1860	1858	1860	526
25°	1692	1684	1676	1672	1670	779
35°	1453	1442	1426	1418	1416	906
45°	1162	1154	1134	1125	1125	897
55°	864	849	833	823	822	772
65°	563	552	536	530	530	558
75°	288	278	270	266	272	304
85°	64	64	63	61	59	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1963.7	1963.7	1963.7	1963.7	1963.7
2.5°	1963.7	1961.7	1959.7	1961.7	1965.6
5°	1957.8	1953.9	1953.9	1953.9	1957.8
7.5°	1944.1	1940.2	1938.2	1940.2	1942.1
10°	1924.5	1920.6	1918.7	1920.6	1922.6
12.5°	1897.2	1895.2	1893.2	1893.2	1895.2
15°	1869.8	1862.0	1860.0	1858.0	1860.0
17.5°	1830.7	1828.7	1820.9	1820.9	1820.9
20°	1787.6	1783.7	1777.9	1773.9	1773.9
22.5°	1742.6	1738.7	1729.0	1725.0	1727.0
25°	1691.8	1684.0	1676.2	1672.2	1670.3
27.5°	1637.0	1629.2	1617.5	1611.6	1611.6
30°	1578.4	1572.5	1558.8	1551.0	1549.0
32.5°	1513.8	1509.9	1490.3	1486.4	1486.4
35°	1453.2	1441.5	1425.8	1418.0	1416.0
37.5°	1380.8	1373.0	1357.4	1347.6	1345.6
40°	1308.5	1298.7	1283.0	1275.2	1273.2
42.5°	1236.1	1226.3	1210.7	1200.9	1198.9
45°	1161.8	1153.9	1134.4	1124.6	1124.6
47.5°	1091.4	1075.7	1058.1	1050.3	1048.3
50°	1015.1	1001.4	981.8	974.0	974.0
52.5°	938.8	929.0	907.5	903.6	899.7
55°	864.5	848.8	833.2	823.4	821.5
57.5°	784.3	770.6	755.0	747.1	747.1
60°	715.8	698.2	684.5	674.8	674.8
62.5°	637.6	622.0	608.3	602.4	600.4
65°	563.3	551.5	535.9	530.0	530.0
67.5°	489.0	479.2	465.5	459.6	461.6
70°	416.6	410.7	400.9	393.1	391.2
72.5°	350.1	342.3	332.5	330.5	330.5
75°	287.5	277.7	269.9	266.0	271.9
77.5°	223.0	217.1	213.2	211.2	213.2
80°	166.2	158.4	156.5	158.4	158.4
82.5°	115.4	111.5	109.5	109.5	109.5
85°	64.5	64.5	62.6	60.6	58.7
87.5°	25.4	25.4	27.4	27.4	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)