

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: P601437

Luminaire Tested: 22CGSB-20-L950

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601437  
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-L950  
Description: 2x2 CGSB AT 2000lm 5000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

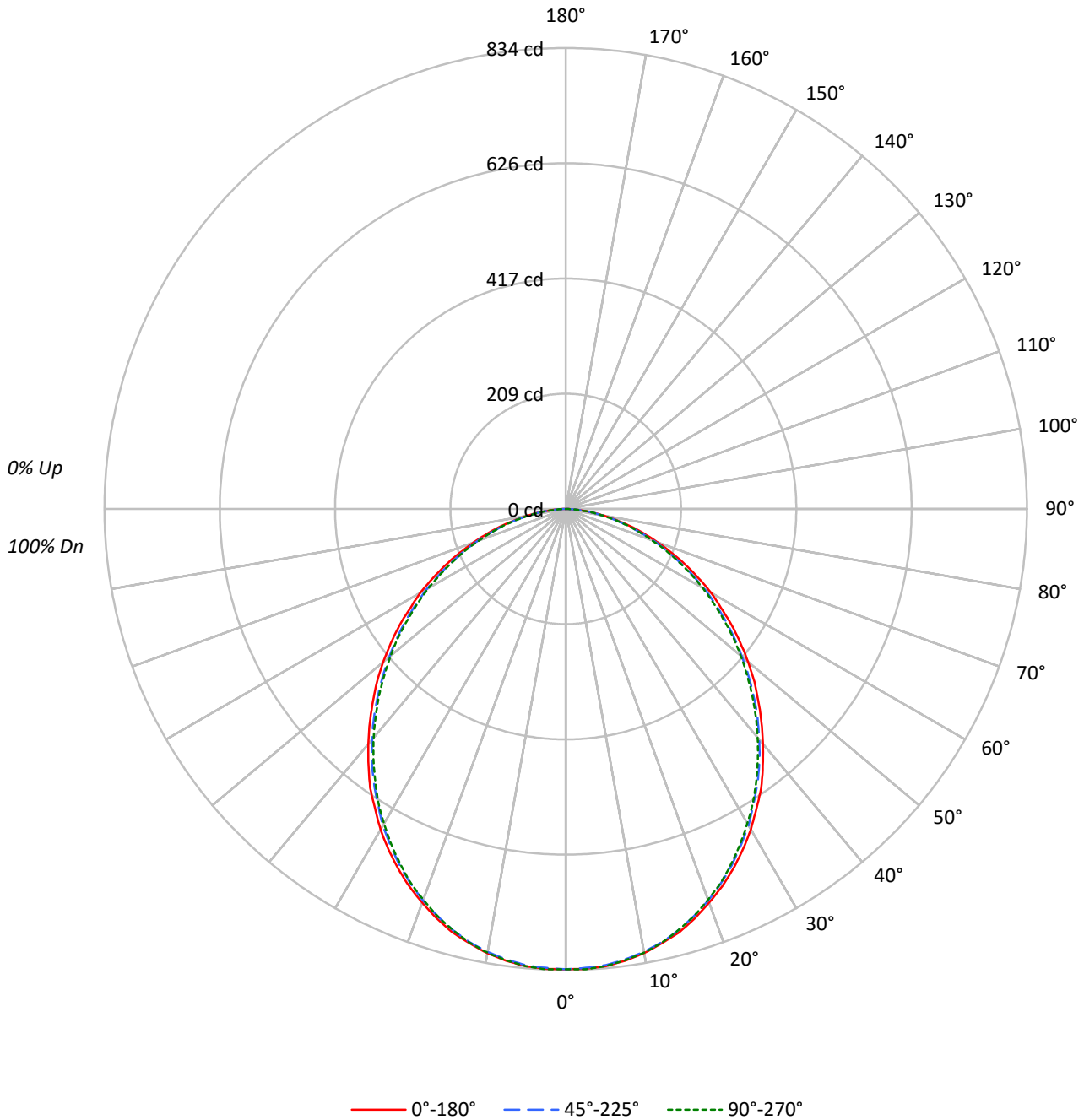
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2081.0 lumens  
Efficiency: N/A  
Efficacy: 123.1 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): 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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### 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°	2241	2241	2241
5°	2243	2238	2243
10°	2230	2223	2228
15°	2209	2198	2198
20°	2171	2159	2154
25°	2130	2110	2103
30°	2080	2054	2041
35°	2025	1986	1973
40°	1949	1911	1897
45°	1875	1831	1815
50°	1802	1743	1729
55°	1720	1658	1635
60°	1634	1562	1540
65°	1521	1447	1431
70°	1390	1338	1305
75°	1267	1190	1199
80°	1093	1029	1041
85°	846	818	769

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1875 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.7	3.8
10°-20°	222.4	10.7
20°-30°	327.6	15.7
30°-40°	379.0	18.2
40°-50°	372.6	17.9
50°-60°	317.5	15.3
60°-70°	227.5	10.9
70°-80°	123.6	5.9
80°-90°	32.2	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°	628.7	30.2
0°-40°	1007.6	48.4
0°-60°	1697.7	81.6
0°-90°	2081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	833	833	833	833	833	
5°	830	829	829	829	830	79
15°	793	790	789	788	789	223
25°	718	714	711	709	708	330
35°	616	611	605	601	600	384
45°	493	489	481	477	477	381
55°	367	360	353	349	348	327
65°	239	234	227	225	225	237
75°	122	118	114	113	115	129
85°	27	27	26	26	25	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	832.8	832.8	832.8	832.8	832.8
2.5°	832.8	831.9	831.1	831.9	833.6
5°	830.3	828.6	828.6	828.6	830.3
7.5°	824.5	822.8	822.0	822.8	823.6
10°	816.2	814.5	813.7	814.5	815.3
12.5°	804.6	803.7	802.9	802.9	803.7
15°	793.0	789.6	788.8	788.0	788.8
17.5°	776.4	775.5	772.2	772.2	772.2
20°	758.1	756.5	754.0	752.3	752.3
22.5°	739.0	737.4	733.2	731.6	732.4
25°	717.5	714.2	710.8	709.2	708.3
27.5°	694.2	690.9	686.0	683.5	683.5
30°	669.4	666.9	661.1	657.8	656.9
32.5°	642.0	640.3	632.0	630.4	630.4
35°	616.3	611.3	604.7	601.3	600.5
37.5°	585.6	582.3	575.6	571.5	570.7
40°	554.9	550.8	544.1	540.8	540.0
42.5°	524.2	520.1	513.4	509.3	508.5
45°	492.7	489.4	481.1	476.9	476.9
47.5°	462.8	456.2	448.7	445.4	444.6
50°	430.5	424.7	416.4	413.1	413.1
52.5°	398.1	394.0	384.9	383.2	381.5
55°	366.6	360.0	353.3	349.2	348.4
57.5°	332.6	326.8	320.2	316.8	316.8
60°	303.6	296.1	290.3	286.2	286.2
62.5°	270.4	263.8	258.0	255.5	254.6
65°	238.9	233.9	227.3	224.8	224.8
67.5°	207.4	203.2	197.4	194.9	195.7
70°	176.7	174.2	170.0	166.7	165.9
72.5°	148.5	145.2	141.0	140.2	140.2
75°	121.9	117.8	114.5	112.8	115.3
77.5°	94.6	92.1	90.4	89.6	90.4
80°	70.5	67.2	66.4	67.2	67.2
82.5°	48.9	47.3	46.4	46.4	46.4
85°	27.4	27.4	26.5	25.7	24.9
87.5°	10.8	10.8	11.6	11.6	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)