

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: P601448

Luminaire Tested: 22CGSB-30-L840

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601448  
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-30-L840  
Description: 2x2 CGSB AT 3000lm 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

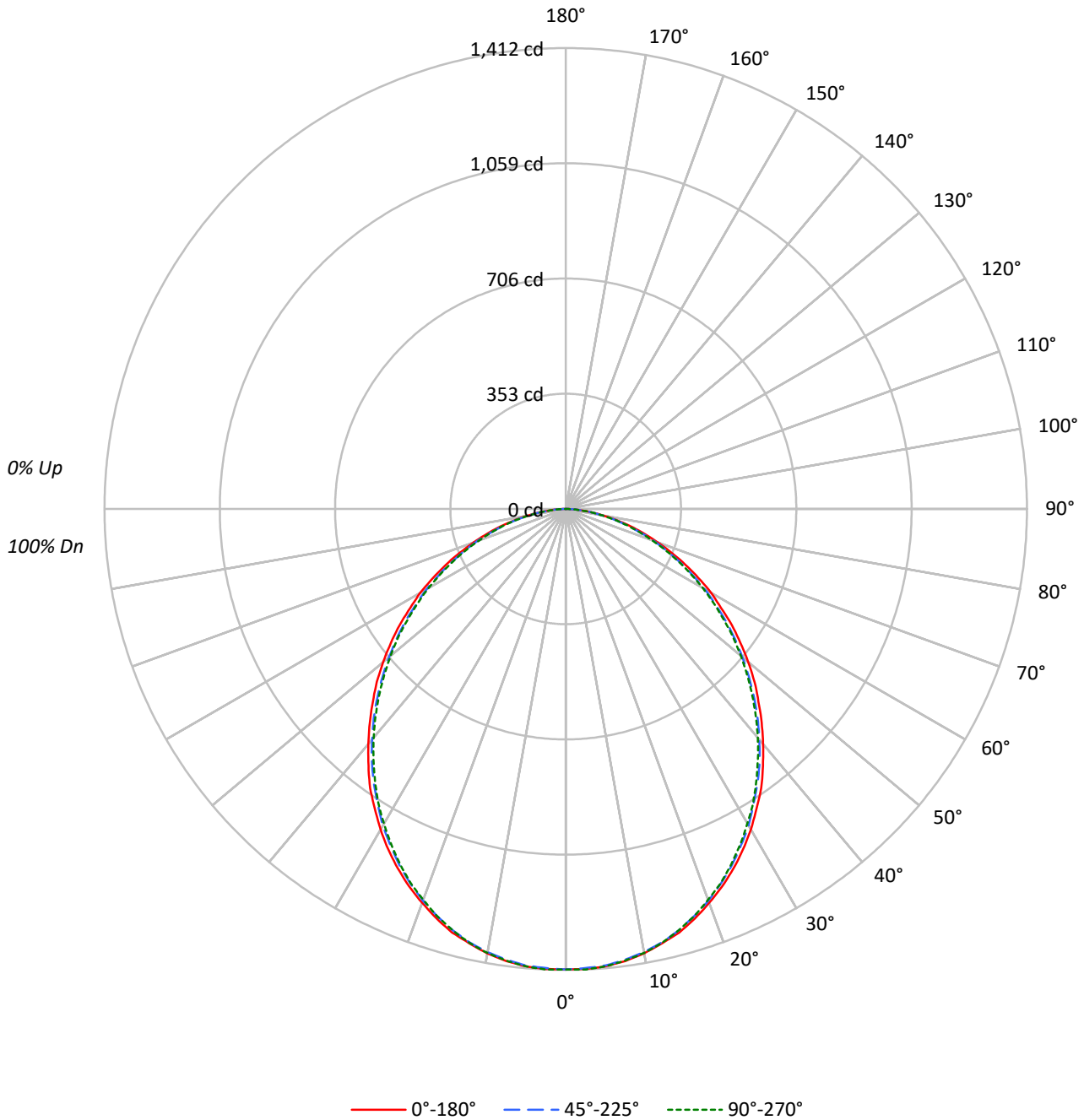
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3525.0 lumens  
Efficiency: N/A  
Efficacy: 141.6 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): 24.9  
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

TEST NUMBER: P601448  
CATALOG NUMBER: 22CGSB-30-L840

### Luminous Intensity Polar Plot





TEST NUMBER: P601448  
 CATALOG NUMBER: 22CGSB-30-L840

**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°	3796	3796	3796
5°	3799	3791	3799
10°	3778	3766	3774
15°	3742	3723	3723
20°	3678	3657	3649
25°	3608	3575	3563
30°	3523	3480	3458
35°	3429	3365	3342
40°	3302	3238	3213
45°	3176	3101	3075
50°	3053	2953	2929
55°	2913	2808	2769
60°	2767	2646	2609
65°	2576	2451	2425
70°	2355	2266	2211
75°	2147	2016	2031
80°	1850	1742	1764
85°	1433	1389	1300

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3176 cd/sqm



TEST NUMBER: P601448  
 CATALOG NUMBER: 22CGSB-30-L840

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.2	3.8
10°-20°	376.8	10.7
20°-30°	554.9	15.7
30°-40°	641.9	18.2
40°-50°	631.1	17.9
50°-60°	537.8	15.3
60°-70°	385.4	10.9
70°-80°	209.3	5.9
80°-90°	54.6	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°	1064.9	30.2
0°-40°	1706.8	48.4
0°-60°	2875.7	81.6
0°-90°	3525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3525.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1411	1411	1411	1411	1411	
5°	1406	1404	1404	1404	1406	133
15°	1343	1338	1336	1335	1336	378
25°	1215	1210	1204	1201	1200	559
35°	1044	1036	1024	1019	1017	651
45°	835	829	815	808	808	645
55°	621	610	598	592	590	554
65°	405	396	385	381	381	401
75°	206	200	194	191	195	218
85°	46	46	45	44	42	56
90°	0	0	0	0	0	



TEST NUMBER: P601448  
 CATALOG NUMBER: 22CGSB-30-L840

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1410.6	1410.6	1410.6	1410.6	<i>1410.6</i>
2.5°	<i>1410.6</i>	<i>1409.2</i>	<i>1407.8</i>	<i>1409.2</i>	<i>1412.0</i>
5°	1406.4	1403.6	1403.6	1403.6	<i>1406.4</i>
7.5°	1396.6	1393.8	1392.4	1393.8	<i>1395.2</i>
10°	1382.5	1379.7	1378.3	1379.7	<i>1381.1</i>
12.5°	1362.8	1361.4	1360.0	1360.0	<i>1361.4</i>
15°	1343.2	1337.6	1336.2	1334.7	<i>1336.2</i>
17.5°	1315.1	1313.7	1308.1	1308.1	<i>1308.1</i>
20°	1284.2	1281.4	1277.1	1274.3	<i>1274.3</i>
22.5°	1251.9	1249.0	1242.0	1239.2	<i>1240.6</i>
25°	1215.3	1209.7	1204.1	1201.3	<i>1199.9</i>
27.5°	1176.0	1170.4	1161.9	1157.7	<i>1157.7</i>
30°	1133.8	1129.6	1119.8	1114.2	<i>1112.8</i>
32.5°	1087.5	1084.7	1070.6	1067.8	<i>1067.8</i>
35°	1043.9	1035.5	1024.2	1018.6	<i>1017.2</i>
37.5°	991.9	986.3	975.1	968.0	<i>966.6</i>
40°	939.9	932.9	921.7	916.1	<i>914.7</i>
42.5°	888.0	880.9	869.7	862.7	<i>861.3</i>
45°	834.6	828.9	814.9	807.9	<i>807.9</i>
47.5°	784.0	772.7	760.1	754.5	<i>753.1</i>
50°	729.2	719.4	705.3	699.7	<i>699.7</i>
52.5°	674.4	667.4	651.9	649.1	<i>646.3</i>
55°	621.0	609.8	598.5	591.5	<i>590.1</i>
57.5°	563.4	553.6	542.3	536.7	<i>536.7</i>
60°	514.2	501.6	491.7	484.7	<i>484.7</i>
62.5°	458.0	446.8	437.0	432.7	<i>431.3</i>
65°	404.6	396.2	385.0	380.8	<i>380.8</i>
67.5°	351.2	344.2	334.4	330.2	<i>331.6</i>
70°	299.3	295.0	288.0	282.4	<i>281.0</i>
72.5°	251.5	245.9	238.8	237.4	<i>237.4</i>
75°	206.5	199.5	193.9	191.1	<i>195.3</i>
77.5°	160.2	156.0	153.1	151.7	<i>153.1</i>
80°	119.4	113.8	112.4	113.8	<i>113.8</i>
82.5°	82.9	80.1	78.7	78.7	<i>78.7</i>
85°	46.4	46.4	45.0	43.6	<i>42.1</i>
87.5°	18.3	18.3	19.7	19.7	<i>21.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)