

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: P601449

Luminaire Tested: 22CGSB-30-L850

Issue Date: 1/24/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P601449  
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-L850  
Description: 2x2 CGSB AT 3000lm 5000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

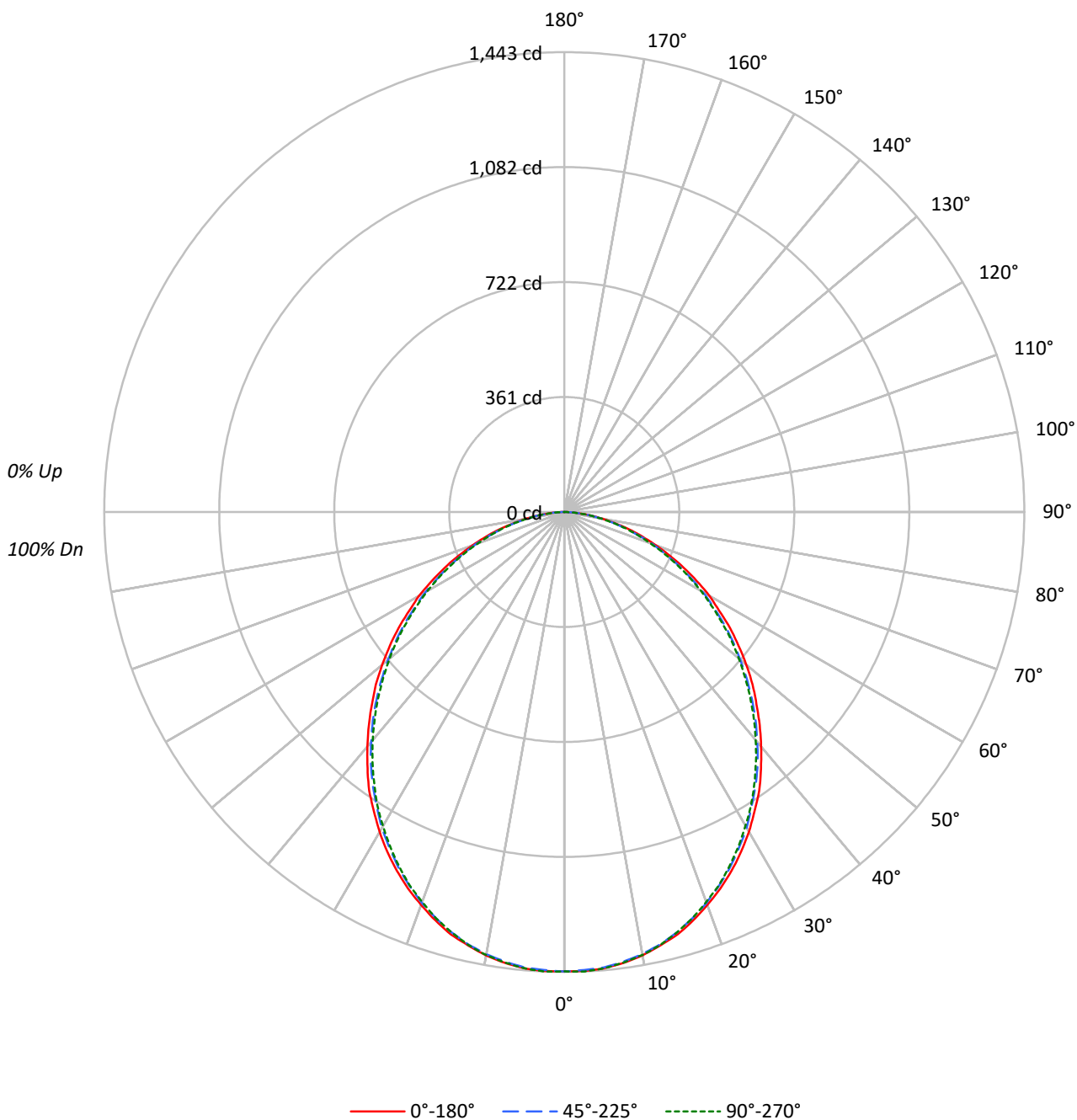
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3602.0 lumens  
Efficiency: N/A  
Efficacy: 144.7 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

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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°	3879	3879	3879
5°	3882	3874	3882
10°	3860	3848	3856
15°	3824	3804	3804
20°	3758	3737	3729
25°	3687	3653	3640
30°	3600	3555	3533
35°	3504	3438	3415
40°	3374	3308	3283
45°	3245	3169	3142
50°	3119	3017	2993
55°	2977	2869	2829
60°	2828	2704	2666
65°	2633	2505	2478
70°	2406	2316	2259
75°	2194	2060	2075
80°	1891	1781	1802
85°	1463	1417	1331

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3245 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.2	3.8
10°-20°	385.0	10.7
20°-30°	567.0	15.7
30°-40°	655.9	18.2
40°-50°	644.9	17.9
50°-60°	549.6	15.3
60°-70°	393.8	10.9
70°-80°	213.9	5.9
80°-90°	55.8	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°	1088.2	30.2
0°-40°	1744.1	48.4
0°-60°	2938.6	81.6
0°-90°	3602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3602.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1437	1434	1434	1434	1437	136
15°	1372	1367	1365	1364	1365	386
25°	1242	1236	1230	1228	1226	572
35°	1067	1058	1047	1041	1039	665
45°	853	847	833	826	826	659
55°	635	623	612	604	603	567
65°	414	405	393	389	389	410
75°	211	204	198	195	200	223
85°	47	47	46	44	43	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1441.4	1441.4	1441.4	1441.4	1441.4
2.5°	1441.4	1440.0	1438.6	1440.0	1442.9
5°	1437.1	1434.3	1434.3	1434.3	1437.1
7.5°	1427.1	1424.2	1422.8	1424.2	1425.6
10°	1412.7	1409.8	1408.4	1409.8	1411.3
12.5°	1392.6	1391.2	1389.7	1389.7	1391.2
15°	1372.5	1366.8	1365.3	1363.9	1365.3
17.5°	1343.8	1342.4	1336.6	1336.6	1336.6
20°	1312.2	1309.3	1305.0	1302.2	1302.2
22.5°	1279.2	1276.3	1269.1	1266.3	1267.7
25°	1241.9	1236.1	1230.4	1227.5	1226.1
27.5°	1201.7	1195.9	1187.3	1183.0	1183.0
30°	1158.6	1154.3	1144.2	1138.5	1137.1
32.5°	1111.2	1108.4	1094.0	1091.1	1091.1
35°	1066.7	1058.1	1046.6	1040.9	1039.4
37.5°	1013.6	1007.9	996.4	989.2	987.8
40°	960.5	953.3	941.8	936.1	934.6
42.5°	907.4	900.2	888.7	881.5	880.1
45°	852.8	847.1	832.7	825.5	825.5
47.5°	801.1	789.6	776.7	771.0	769.5
50°	745.1	735.1	720.7	715.0	715.0
52.5°	689.1	682.0	666.2	663.3	660.4
55°	634.6	623.1	611.6	604.4	603.0
57.5°	575.7	565.7	554.2	548.4	548.4
60°	525.5	512.5	502.5	495.3	495.3
62.5°	468.0	456.5	446.5	442.2	440.8
65°	413.5	404.9	393.4	389.1	389.1
67.5°	358.9	351.7	341.7	337.4	338.8
70°	305.8	301.5	294.3	288.6	287.1
72.5°	257.0	251.2	244.1	242.6	242.6
75°	211.0	203.9	198.1	195.3	199.6
77.5°	163.7	159.4	156.5	155.1	156.5
80°	122.0	116.3	114.9	116.3	116.3
82.5°	84.7	81.8	80.4	80.4	80.4
85°	47.4	47.4	45.9	44.5	43.1
87.5°	18.7	18.7	20.1	20.1	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)