

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: P601446

Luminaire Tested: 22CGSB-30-L830

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601446
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-L830
Description: 2x2 CGSB AT 3000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

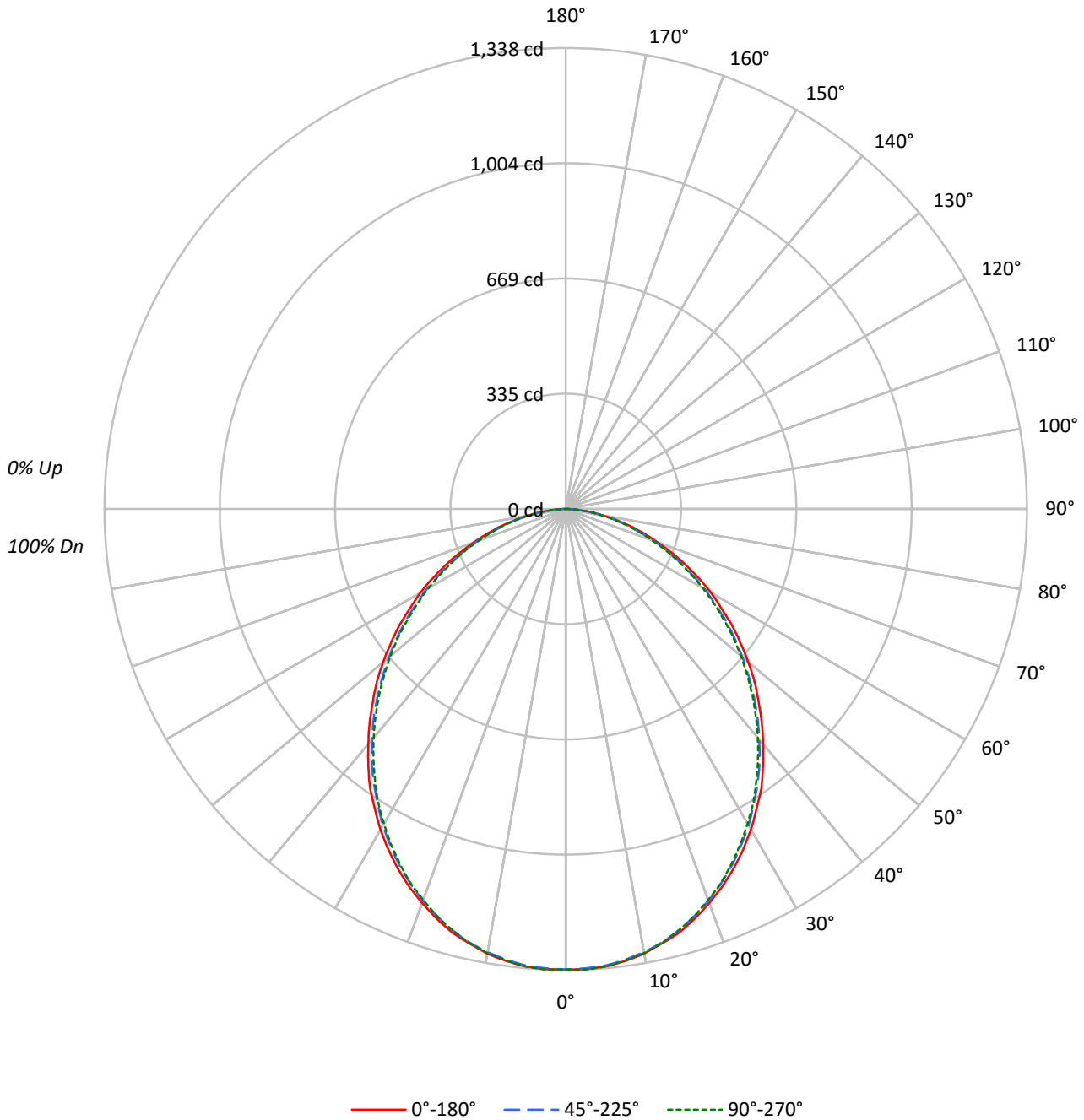
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3341.0 lumens
Efficiency: N/A
Efficacy: 134.2 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									
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	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°	3598	3598	3598
5°	3601	3593	3601
10°	3581	3570	3577
15°	3547	3528	3528
20°	3485	3466	3459
25°	3420	3388	3377
30°	3339	3298	3277
35°	3250	3189	3167
40°	3130	3069	3045
45°	3010	2939	2914
50°	2893	2799	2776
55°	2761	2662	2624
60°	2623	2509	2472
65°	2442	2323	2298
70°	2231	2148	2095
75°	2036	1911	1925
80°	1754	1650	1672
85°	1355	1315	1232

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3010 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	3.8
10°-20°	357.1	10.7
20°-30°	525.9	15.7
30°-40°	608.4	18.2
40°-50°	598.1	17.9
50°-60°	509.7	15.3
60°-70°	365.2	10.9
70°-80°	198.4	5.9
80°-90°	51.7	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°	1009.3	30.2
0°-40°	1617.7	48.4
0°-60°	2725.6	81.6
0°-90°	3341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3341.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1333	1330	1330	1330	1333	126
15°	1273	1268	1266	1265	1266	358
25°	1152	1147	1141	1139	1137	530
35°	989	981	971	966	964	617
45°	791	786	772	766	766	611
55°	589	578	567	561	559	526
65°	384	376	365	361	361	380
75°	196	189	184	181	185	207
85°	44	44	43	41	40	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.0	1337.0	1337.0	1337.0	<i>1337.0</i>
2.5°	<i>1337.0</i>	<i>1335.7</i>	<i>1334.3</i>	<i>1335.7</i>	<i>1338.3</i>
5°	1333.0	1330.3	1330.3	1330.3	<i>1333.0</i>
7.5°	1323.7	1321.0	1319.7	1321.0	<i>1322.3</i>
10°	1310.4	1307.7	1306.4	1307.7	<i>1309.0</i>
12.5°	1291.7	1290.4	1289.0	1289.0	<i>1290.4</i>
15°	1273.1	1267.7	1266.4	1265.1	<i>1266.4</i>
17.5°	1246.4	1245.1	1239.8	1239.8	<i>1239.8</i>
20°	1217.1	1214.5	1210.5	1207.8	<i>1207.8</i>
22.5°	1186.5	1183.8	1177.2	1174.5	<i>1175.9</i>
25°	1151.9	1146.6	1141.2	1138.6	<i>1137.2</i>
27.5°	1114.6	1109.3	1101.3	1097.3	<i>1097.3</i>
30°	1074.6	1070.7	1061.3	1056.0	<i>1054.7</i>
32.5°	1030.7	1028.0	1014.7	1012.1	<i>1012.1</i>
35°	989.4	981.4	970.8	965.5	<i>964.1</i>
37.5°	940.2	934.8	924.2	917.5	<i>916.2</i>
40°	890.9	884.2	873.6	868.2	<i>866.9</i>
42.5°	841.6	834.9	824.3	817.6	<i>816.3</i>
45°	791.0	785.7	772.4	765.7	<i>765.7</i>
47.5°	743.1	732.4	720.4	715.1	<i>713.8</i>
50°	691.1	681.8	668.5	663.2	<i>663.2</i>
52.5°	639.2	632.5	617.9	615.2	<i>612.6</i>
55°	588.6	577.9	567.3	560.6	<i>559.3</i>
57.5°	534.0	524.7	514.0	508.7	<i>508.7</i>
60°	487.4	475.4	466.1	459.4	<i>459.4</i>
62.5°	434.1	423.5	414.1	410.2	<i>408.8</i>
65°	383.5	375.5	364.9	360.9	<i>360.9</i>
67.5°	332.9	326.3	316.9	312.9	<i>314.3</i>
70°	283.6	279.6	273.0	267.7	<i>266.3</i>
72.5°	238.4	233.0	226.4	225.1	<i>225.1</i>
75°	195.8	189.1	183.8	181.1	<i>185.1</i>
77.5°	151.8	147.8	145.2	143.8	<i>145.2</i>
80°	113.2	107.9	106.5	107.9	<i>107.9</i>
82.5°	78.6	75.9	74.6	74.6	<i>74.6</i>
85°	43.9	43.9	42.6	41.3	<i>39.9</i>
87.5°	17.3	17.3	18.6	18.6	<i>20.0</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)