

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: P601452

Luminaire Tested: 22CGSB-30-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601452
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-L940
Description: 2x2 CGSB AT 3000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

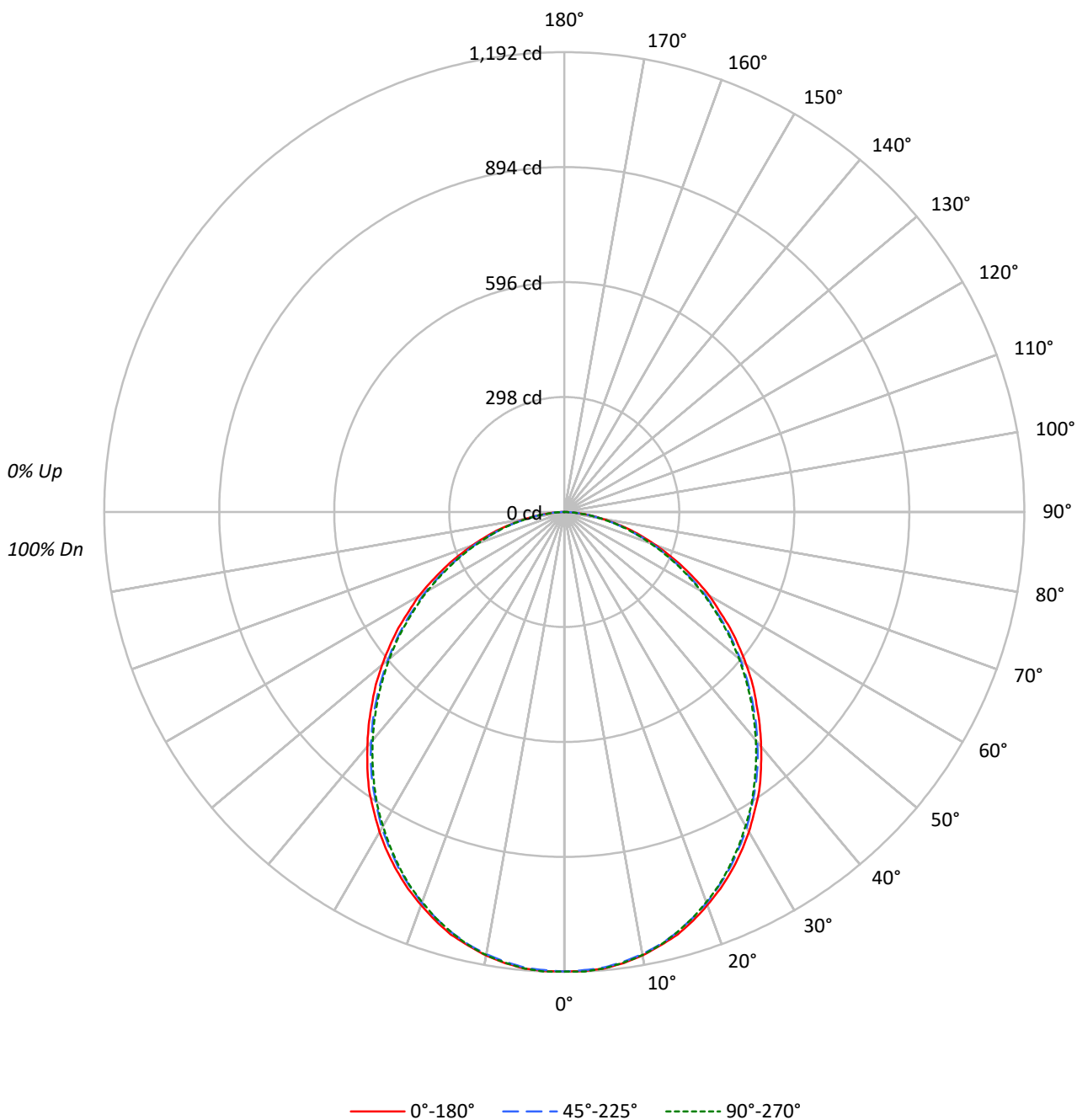
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2976.0 lumens
Efficiency: N/A
Efficacy: 119.5 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): 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°	3205	3205	3205
5°	3207	3201	3207
10°	3189	3180	3186
15°	3159	3143	3143
20°	3105	3088	3081
25°	3046	3018	3008
30°	2974	2938	2919
35°	2895	2841	2821
40°	2788	2733	2713
45°	2681	2618	2596
50°	2577	2493	2473
55°	2460	2371	2337
60°	2336	2235	2202
65°	2175	2069	2047
70°	1988	1913	1866
75°	1813	1702	1714
80°	1562	1471	1489
85°	1207	1173	1099

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2681 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.8
10°-20°	318.1	10.7
20°-30°	468.5	15.7
30°-40°	541.9	18.2
40°-50°	532.8	17.9
50°-60°	454.1	15.3
60°-70°	325.3	10.9
70°-80°	176.7	5.9
80°-90°	46.1	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°	899.1	30.2
0°-40°	1441.0	48.4
0°-60°	2427.9	81.6
0°-90°	2976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1191	1191	1191	1191	1191	
5°	1187	1185	1185	1185	1187	113
15°	1134	1129	1128	1127	1128	319
25°	1026	1021	1017	1014	1013	472
35°	881	874	865	860	859	550
45°	705	700	688	682	682	544
55°	524	515	505	499	498	468
65°	342	334	325	322	322	338
75°	174	168	164	161	165	184
85°	39	39	38	37	36	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1190.9	1190.9	1190.9	1190.9	<i>1190.9</i>
2.5°	<i>1190.9</i>	<i>1189.7</i>	<i>1188.5</i>	<i>1189.7</i>	<i>1192.1</i>
5°	1187.4	1185.0	1185.0	1185.0	<i>1187.4</i>
7.5°	1179.1	1176.7	1175.5	1176.7	<i>1177.9</i>
10°	1167.2	1164.8	1163.6	1164.8	<i>1166.0</i>
12.5°	1150.6	1149.4	1148.2	1148.2	<i>1149.4</i>
15°	1134.0	1129.2	1128.1	1126.9	<i>1128.1</i>
17.5°	1110.3	1109.1	1104.3	1104.3	<i>1104.3</i>
20°	1084.2	1081.8	1078.2	1075.9	<i>1075.9</i>
22.5°	1056.9	1054.5	1048.6	1046.2	<i>1047.4</i>
25°	1026.0	1021.3	1016.6	1014.2	<i>1013.0</i>
27.5°	992.8	988.1	981.0	977.4	<i>977.4</i>
30°	957.2	953.7	945.4	940.6	<i>939.5</i>
32.5°	918.1	915.7	903.9	901.5	<i>901.5</i>
35°	881.3	874.2	864.7	860.0	<i>858.8</i>
37.5°	837.4	832.7	823.2	817.3	<i>816.1</i>
40°	793.6	787.6	778.1	773.4	<i>772.2</i>
42.5°	749.7	743.7	734.2	728.3	<i>727.1</i>
45°	704.6	699.8	688.0	682.1	<i>682.1</i>
47.5°	661.9	652.4	641.7	637.0	<i>635.8</i>
50°	615.6	607.3	595.5	590.7	<i>590.7</i>
52.5°	569.4	563.4	550.4	548.0	<i>545.6</i>
55°	524.3	514.8	505.3	499.4	<i>498.2</i>
57.5°	475.7	467.4	457.9	453.1	<i>453.1</i>
60°	434.1	423.5	415.2	409.2	<i>409.2</i>
62.5°	386.7	377.2	368.9	365.3	<i>364.2</i>
65°	341.6	334.5	325.0	321.5	<i>321.5</i>
67.5°	296.5	290.6	282.3	278.8	<i>279.9</i>
70°	252.7	249.1	243.2	238.4	<i>237.2</i>
72.5°	212.3	207.6	201.7	200.5	<i>200.5</i>
75°	174.4	168.4	163.7	161.3	<i>164.9</i>
77.5°	135.2	131.7	129.3	128.1	<i>129.3</i>
80°	100.8	96.1	94.9	96.1	<i>96.1</i>
82.5°	70.0	67.6	66.4	66.4	<i>66.4</i>
85°	39.1	39.1	38.0	36.8	<i>35.6</i>
87.5°	15.4	15.4	16.6	16.6	<i>17.8</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)