

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: P601464

Luminaire Tested: 22CGSB-40-L840

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601464
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-40-L840
Description: 2x2 CGSB AT 4000lm 4000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

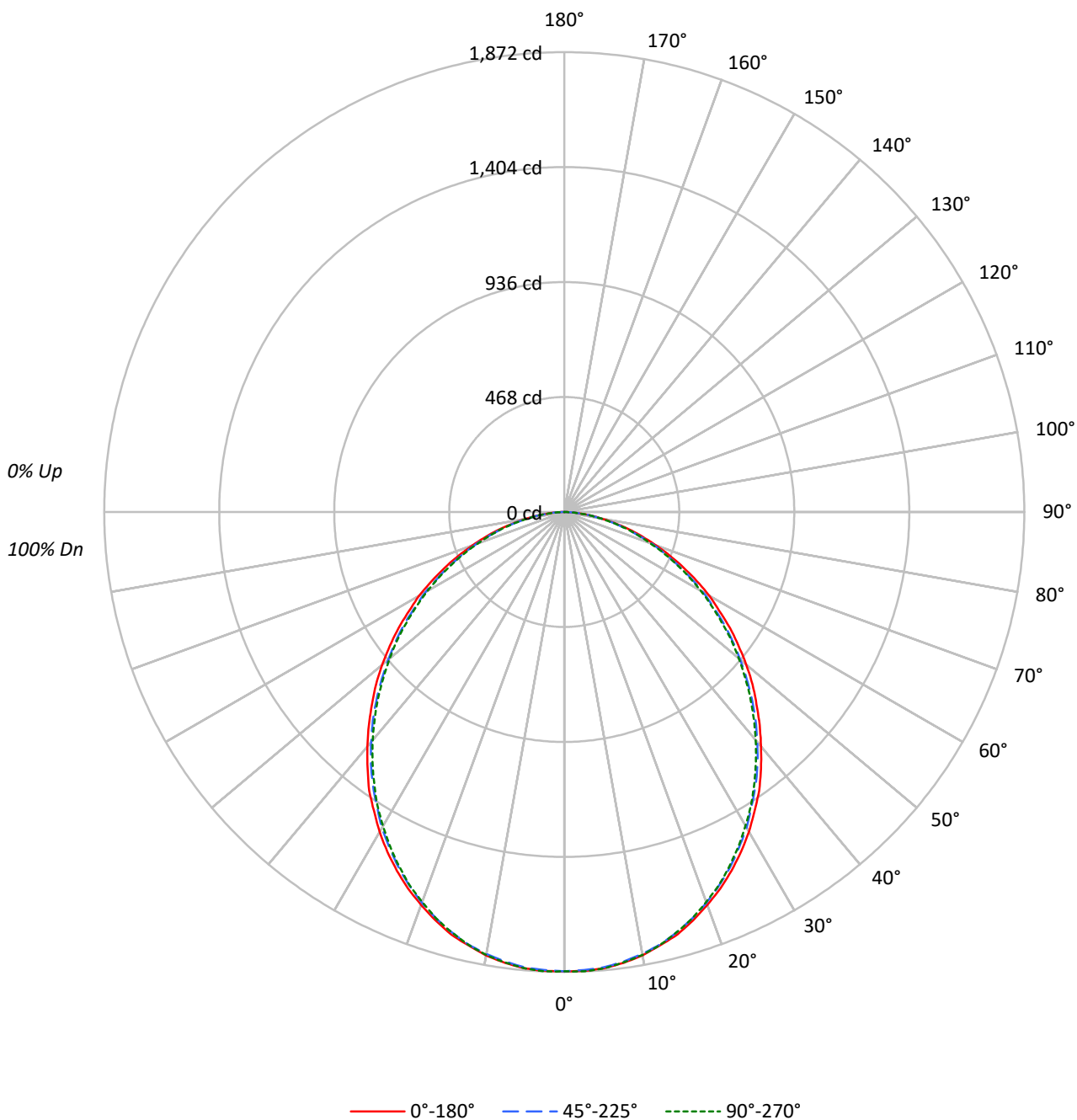
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4672.0 lumens
Efficiency: N/A
Efficacy: 138.2 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): 33.8
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	5031	5031	5031
5°	5035	5025	5035
10°	5007	4992	5002
15°	4959	4934	4934
20°	4874	4847	4837
25°	4783	4738	4722
30°	4670	4612	4583
35°	4545	4459	4429
40°	4376	4291	4259
45°	4209	4110	4075
50°	4046	3913	3882
55°	3862	3722	3669
60°	3668	3508	3457
65°	3415	3249	3213
70°	3120	3003	2930
75°	2846	2672	2691
80°	2453	2309	2337
85°	1899	1840	1726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4209 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	3.8
10°-20°	499.4	10.7
20°-30°	735.5	15.7
30°-40°	850.8	18.2
40°-50°	836.4	17.9
50°-60°	712.8	15.3
60°-70°	510.7	10.9
70°-80°	277.4	5.9
80°-90°	72.4	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°	1411.4	30.2
0°-40°	2262.2	48.4
0°-60°	3811.5	81.6
0°-90°	4672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4672.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1870	1870	1870	1870	1870	
5°	1864	1860	1860	1860	1864	177
15°	1780	1773	1771	1769	1771	501
25°	1611	1603	1596	1592	1590	741
35°	1384	1372	1358	1350	1348	863
45°	1106	1099	1080	1071	1071	854
55°	823	808	793	784	782	735
65°	536	525	510	505	505	531
75°	274	264	257	253	259	289
85°	62	62	60	58	56	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869.6	1869.6	1869.6	1869.6	<i>1869.6</i>
2.5°	<i>1869.6</i>	<i>1867.8</i>	<i>1865.9</i>	<i>1867.8</i>	<i>1871.5</i>
5°	1864.0	1860.3	1860.3	1860.3	<i>1864.0</i>
7.5°	1851.0	1847.3	1845.4	1847.3	<i>1849.1</i>
10°	1832.4	1828.7	1826.8	1828.7	<i>1830.5</i>
12.5°	1806.3	1804.4	1802.6	1802.6	<i>1804.4</i>
15°	1780.2	1772.8	1770.9	1769.1	<i>1770.9</i>
17.5°	1743.0	1741.1	1733.7	1733.7	<i>1733.7</i>
20°	1702.0	1698.3	1692.7	1689.0	<i>1689.0</i>
22.5°	1659.2	1655.5	1646.2	1642.4	<i>1644.3</i>
25°	1610.8	1603.3	1595.9	1592.2	<i>1590.3</i>
27.5°	1558.6	1551.2	1540.0	1534.4	<i>1534.4</i>
30°	1502.8	1497.2	1484.1	1476.7	<i>1474.8</i>
32.5°	1441.3	1437.6	1419.0	1415.2	<i>1415.2</i>
35°	1383.6	1372.4	1357.5	1350.1	<i>1348.2</i>
37.5°	1314.7	1307.2	1292.3	1283.0	<i>1281.2</i>
40°	1245.8	1236.5	1221.6	1214.1	<i>1212.3</i>
42.5°	1176.9	1167.6	1152.7	1143.4	<i>1141.5</i>
45°	1106.1	1098.7	1080.1	1070.7	<i>1070.7</i>
47.5°	1039.1	1024.2	1007.4	1000.0	<i>998.1</i>
50°	966.5	953.4	934.8	927.4	<i>927.4</i>
52.5°	893.8	884.5	864.0	860.3	<i>856.6</i>
55°	823.1	808.2	793.3	784.0	<i>782.1</i>
57.5°	746.7	733.7	718.8	711.3	<i>711.3</i>
60°	681.6	664.8	651.8	642.4	<i>642.4</i>
62.5°	607.1	592.2	579.1	573.5	<i>571.7</i>
65°	536.3	525.1	510.2	504.6	<i>504.6</i>
67.5°	465.5	456.2	443.2	437.6	<i>439.5</i>
70°	396.6	391.1	381.7	374.3	<i>372.4</i>
72.5°	333.3	325.9	316.6	314.7	<i>314.7</i>
75°	273.7	264.4	257.0	253.3	<i>258.8</i>
77.5°	212.3	206.7	203.0	201.1	<i>203.0</i>
80°	158.3	150.8	149.0	150.8	<i>150.8</i>
82.5°	109.9	106.1	104.3	104.3	<i>104.3</i>
85°	61.5	61.5	59.6	57.7	<i>55.9</i>
87.5°	24.2	24.2	26.1	26.1	<i>27.9</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)