

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: P601463

Luminaire Tested: 22CGSB-40-L835

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601463
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-L835
Description: 2x2 CGSB AT 4000lm 3500K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

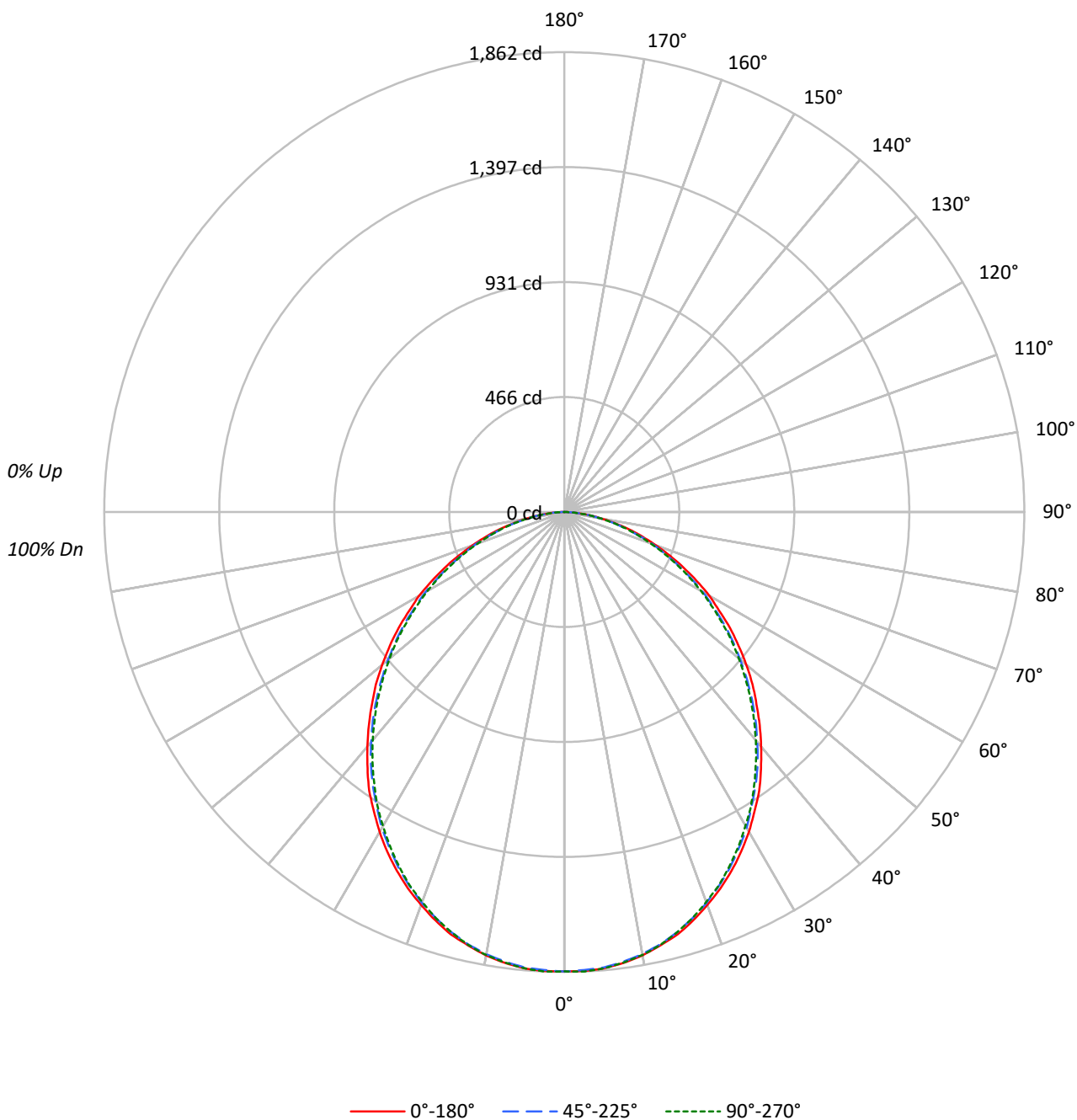
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4648.0 lumens
Efficiency: N/A
Efficacy: 137.5 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): 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	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°	5005	5005	5005
5°	5009	4999	5009
10°	4981	4966	4976
15°	4934	4908	4908
20°	4849	4822	4812
25°	4758	4714	4698
30°	4646	4588	4559
35°	4522	4436	4406
40°	4354	4269	4236
45°	4188	4089	4054
50°	4025	3893	3862
55°	3842	3703	3651
60°	3650	3490	3440
65°	3397	3232	3197
70°	3105	2988	2915
75°	2831	2659	2677
80°	2441	2297	2326
85°	1886	1831	1717

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4188 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.7	3.8
10°-20°	496.8	10.7
20°-30°	731.7	15.7
30°-40°	846.4	18.2
40°-50°	832.1	17.9
50°-60°	709.2	15.3
60°-70°	508.1	10.9
70°-80°	276.0	5.9
80°-90°	72.0	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°	1404.2	30.2
0°-40°	2250.6	48.4
0°-60°	3791.9	81.6
0°-90°	4648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1860	1860	1860	1860	1860	
5°	1854	1851	1851	1851	1854	176
15°	1771	1764	1762	1760	1762	498
25°	1602	1595	1588	1584	1582	738
35°	1376	1365	1350	1343	1341	858
45°	1100	1093	1074	1065	1065	850
55°	819	804	789	780	778	731
65°	534	522	508	502	502	529
75°	272	263	256	252	258	288
85°	61	61	59	57	56	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1860.0	1860.0	1860.0	1860.0	1860.0
2.5°	1860.0	1858.2	1856.3	1858.2	1861.9
5°	1854.5	1850.8	1850.8	1850.8	1854.5
7.5°	1841.5	1837.8	1835.9	1837.8	1839.6
10°	1823.0	1819.3	1817.4	1819.3	1821.1
12.5°	1797.0	1795.2	1793.3	1793.3	1795.2
15°	1771.1	1763.7	1761.8	1760.0	1761.8
17.5°	1734.0	1732.2	1724.8	1724.8	1724.8
20°	1693.3	1689.6	1684.0	1680.3	1680.3
22.5°	1650.7	1647.0	1637.7	1634.0	1635.8
25°	1602.5	1595.1	1587.7	1584.0	1582.1
27.5°	1550.6	1543.2	1532.1	1526.5	1526.5
30°	1495.1	1489.5	1476.5	1469.1	1467.3
32.5°	1433.9	1430.2	1411.7	1408.0	1408.0
35°	1376.5	1365.4	1350.5	1343.1	1341.3
37.5°	1307.9	1300.5	1285.7	1276.4	1274.6
40°	1239.4	1230.1	1215.3	1207.9	1206.0
42.5°	1170.8	1161.6	1146.8	1137.5	1135.6
45°	1100.4	1093.0	1074.5	1065.2	1065.2
47.5°	1033.8	1018.9	1002.3	994.8	993.0
50°	961.5	948.5	930.0	922.6	922.6
52.5°	889.2	880.0	859.6	855.9	852.2
55°	818.9	804.0	789.2	779.9	778.1
57.5°	742.9	729.9	715.1	707.7	707.7
60°	678.1	661.4	648.4	639.1	639.1
62.5°	603.9	589.1	576.2	570.6	568.7
65°	533.5	522.4	507.6	502.1	502.1
67.5°	463.2	453.9	440.9	435.4	437.2
70°	394.6	389.0	379.8	372.4	370.5
72.5°	331.6	324.2	314.9	313.1	313.1
75°	272.3	263.1	255.7	252.0	257.5
77.5°	211.2	205.6	201.9	200.1	201.9
80°	157.5	150.1	148.2	150.1	150.1
82.5°	109.3	105.6	103.7	103.7	103.7
85°	61.1	61.1	59.3	57.4	55.6
87.5°	24.1	24.1	25.9	25.9	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)