

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: P601476

Luminaire Tested: 22CGSB-45-L940

Issue Date: 1/24/2024

Test Information

Test Method: LM-79-2019
Report Number: P601476
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-45-L940
Description: 2x2 CGSB AT 4500lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

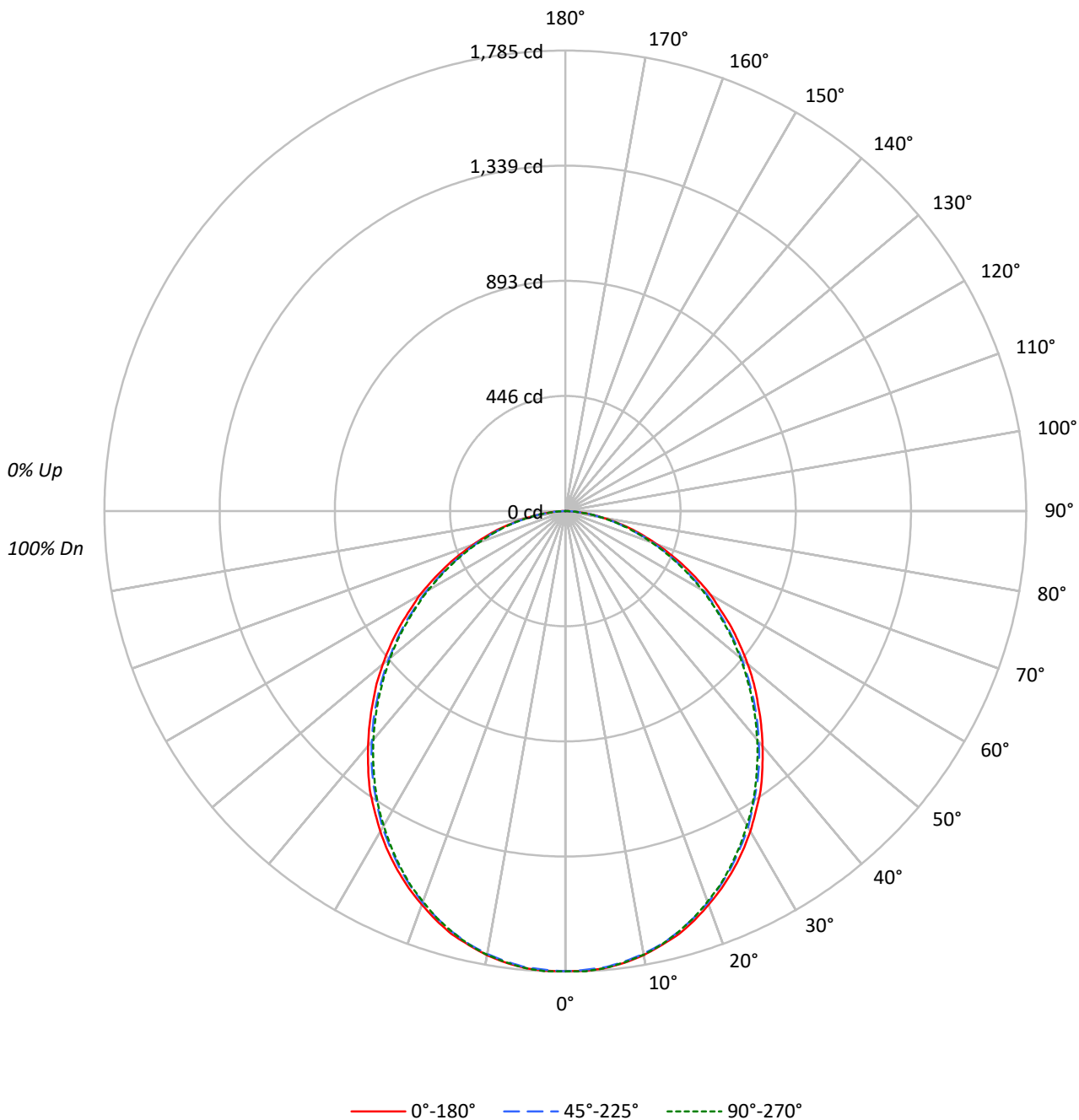
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4456.0 lumens
Efficiency: N/A
Efficacy: 116.6 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): 38.2
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°	4799	4799	4799
5°	4803	4793	4803
10°	4776	4761	4771
15°	4730	4705	4705
20°	4649	4623	4613
25°	4562	4519	4504
30°	4454	4398	4371
35°	4335	4254	4224
40°	4174	4093	4062
45°	4015	3920	3886
50°	3859	3733	3703
55°	3683	3550	3500
60°	3498	3345	3298
65°	3257	3098	3065
70°	2976	2865	2795
75°	2715	2548	2567
80°	2340	2202	2230
85°	1809	1754	1646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4015 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	3.8
10°-20°	476.3	10.7
20°-30°	701.5	15.7
30°-40°	811.5	18.2
40°-50°	797.8	17.9
50°-60°	679.9	15.3
60°-70°	487.1	10.9
70°-80°	264.6	5.9
80°-90°	69.0	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°	1346.2	30.2
0°-40°	2157.6	48.4
0°-60°	3635.3	81.6
0°-90°	4456.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4456.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1778	1774	1774	1774	1778	169
15°	1698	1691	1689	1687	1689	478
25°	1536	1529	1522	1518	1517	707
35°	1320	1309	1295	1288	1286	823
45°	1055	1048	1030	1021	1021	815
55°	785	771	757	748	746	701
65°	512	501	487	481	481	507
75°	261	252	245	242	247	276
85°	59	59	57	55	53	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1783.2	1783.2	1783.2	1783.2	<i>1783.2</i>
2.5°	<i>1783.2</i>	<i>1781.4</i>	<i>1779.6</i>	<i>1781.4</i>	<i>1785.0</i>
5°	1777.9	1774.3	1774.3	1774.3	<i>1777.9</i>
7.5°	1765.4	1761.9	1760.1	1761.9	<i>1763.6</i>
10°	1747.7	1744.1	1742.3	1744.1	<i>1745.9</i>
12.5°	1722.8	1721.0	1719.2	1719.2	<i>1721.0</i>
15°	1697.9	1690.8	1689.0	1687.3	<i>1689.0</i>
17.5°	1662.4	1660.6	1653.5	1653.5	<i>1653.5</i>
20°	1623.3	1619.8	1614.5	1610.9	<i>1610.9</i>
22.5°	1582.5	1578.9	1570.1	1566.5	<i>1568.3</i>
25°	1536.3	1529.2	1522.1	1518.5	<i>1516.8</i>
27.5°	1486.6	1479.5	1468.8	1463.5	<i>1463.5</i>
30°	1433.3	1428.0	1415.5	1408.4	<i>1406.7</i>
32.5°	1374.7	1371.1	1353.4	1349.8	<i>1349.8</i>
35°	1319.6	1309.0	1294.8	1287.7	<i>1285.9</i>
37.5°	1253.9	1246.8	1232.6	1223.7	<i>1221.9</i>
40°	1188.2	1179.3	1165.1	1158.0	<i>1156.2</i>
42.5°	1122.5	1113.6	1099.4	1090.5	<i>1088.7</i>
45°	1055.0	1047.9	1030.1	1021.2	<i>1021.2</i>
47.5°	991.1	976.8	960.9	953.8	<i>952.0</i>
50°	921.8	909.4	891.6	884.5	<i>884.5</i>
52.5°	852.5	843.6	824.1	820.5	<i>817.0</i>
55°	785.0	770.8	756.6	747.7	<i>746.0</i>
57.5°	712.2	699.8	685.6	678.5	<i>678.5</i>
60°	650.0	634.1	621.6	612.7	<i>612.7</i>
62.5°	579.0	564.8	552.4	547.0	<i>545.3</i>
65°	511.5	500.9	486.6	481.3	<i>481.3</i>
67.5°	444.0	435.1	422.7	417.4	<i>419.2</i>
70°	378.3	373.0	364.1	357.0	<i>355.2</i>
72.5°	317.9	310.8	301.9	300.2	<i>300.2</i>
75°	261.1	252.2	245.1	241.5	<i>246.9</i>
77.5°	202.5	197.1	193.6	191.8	<i>193.6</i>
80°	151.0	143.9	142.1	143.9	<i>143.9</i>
82.5°	104.8	101.2	99.5	99.5	<i>99.5</i>
85°	58.6	58.6	56.8	55.1	<i>53.3</i>
87.5°	23.1	23.1	24.9	24.9	<i>26.6</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)