

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: P#

Luminaire Tested: 22D3X-LP-60-L950.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22D3X-LP-60-L950.ies
Description: 2x2 D3X-LP AT 6000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

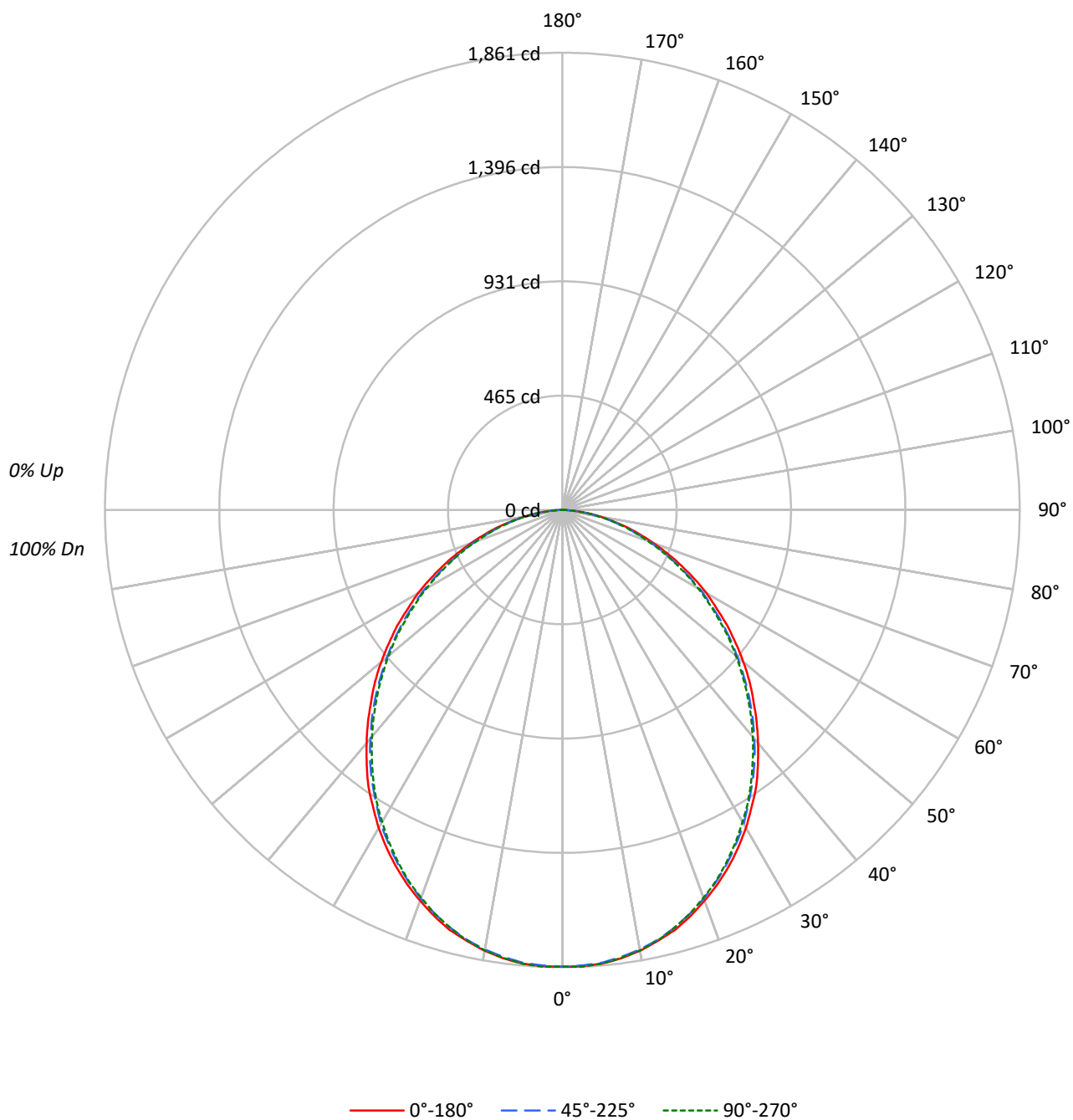
Lumens per Lamp: N/A
Luminaire Lumens: 4645.1 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.5
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				0
RW	70	50	30	10	70	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		100
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		52
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		40
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		36
8	62	49	40	34	60	48	40	34	47	39	34		45	39	34		32
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5002	5002	5002
5°	5006	4996	5006
10°	4978	4963	4973
15°	4931	4905	4905
20°	4846	4820	4809
25°	4755	4711	4695
30°	4643	4585	4557
35°	4519	4434	4404
40°	4351	4267	4234
45°	4185	4086	4051
50°	4023	3891	3860
55°	3839	3700	3648
60°	3647	3488	3438
65°	3395	3230	3195
70°	3103	2986	2913
75°	2830	2656	2676
80°	2439	2295	2325
85°	1886	1828	1714

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4185 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.6	3.8
10°-20°	496.5	10.7
20°-30°	731.2	15.7
30°-40°	845.9	18.2
40°-50°	831.6	17.9
50°-60°	708.7	15.3
60°-70°	507.8	10.9
70°-80°	275.8	5.9
80°-90°	71.9	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°	1403.3	30.2
0°-40°	2249.2	48.4
0°-60°	3789.6	81.6
0°-90°	4645.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4645.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1859	1859	1859	1859	1859	
5°	1853	1850	1850	1850	1853	176
15°	1770	1763	1761	1759	1761	498
25°	1602	1594	1587	1583	1581	737
35°	1376	1364	1350	1342	1340	858
45°	1100	1092	1074	1065	1065	850
55°	818	804	789	780	778	731
65°	533	522	507	502	502	528
75°	272	263	256	252	257	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°	1858.9	1858.9	1858.9	1858.9	1858.9
2.5°	1858.9	1857.0	1855.2	1857.0	1860.7
5°	1853.3	1849.6	1849.6	1849.6	1853.3
7.5°	1840.3	1836.6	1834.8	1836.6	1838.5
10°	1821.8	1818.1	1816.3	1818.1	1820.0
12.5°	1795.9	1794.1	1792.2	1792.2	1794.1
15°	1770.0	1762.6	1760.7	1758.9	1760.7
17.5°	1733.0	1731.1	1723.7	1723.7	1723.7
20°	1692.2	1688.5	1683.0	1679.3	1679.3
22.5°	1649.6	1645.9	1636.7	1633.0	1634.8
25°	1601.5	1594.1	1586.7	1583.0	1581.1
27.5°	1549.7	1542.3	1531.2	1525.6	1525.6
30°	1494.1	1488.6	1475.6	1468.2	1466.4
32.5°	1433.0	1429.3	1410.8	1407.1	1407.1
35°	1375.6	1364.5	1349.7	1342.3	1340.5
37.5°	1307.1	1299.7	1284.9	1275.7	1273.8
40°	1238.6	1229.4	1214.6	1207.1	1205.3
42.5°	1170.1	1160.9	1146.1	1136.8	1134.9
45°	1099.8	1092.4	1073.8	1064.6	1064.6
47.5°	1033.1	1018.3	1001.6	994.2	992.4
50°	960.9	947.9	929.4	922.0	922.0
52.5°	888.7	879.4	859.1	855.4	851.7
55°	818.3	803.5	788.7	779.5	777.6
57.5°	742.4	729.5	714.7	707.3	707.3
60°	677.6	661.0	648.0	638.8	638.8
62.5°	603.6	588.8	575.8	570.2	568.4
65°	533.2	522.1	507.3	501.7	501.7
67.5°	462.9	453.6	440.6	435.1	436.9
70°	394.4	388.8	379.5	372.1	370.3
72.5°	331.4	324.0	314.7	312.9	312.9
75°	272.2	262.9	255.5	251.8	257.4
77.5°	211.1	205.5	201.8	200.0	201.8
80°	157.4	150.0	148.1	150.0	150.0
82.5°	109.2	105.5	103.7	103.7	103.7
85°	61.1	61.1	59.2	57.4	55.5
87.5°	24.1	24.1	25.9	25.9	27.8
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.6	18.2	16.9	18.5	18.8	16.3	17.9	16.7	18.2	18.6
	3H	18.2	19.7	18.6	20.0	20.4	17.9	19.4	18.3	19.7	20.1
	4H	18.8	20.2	19.2	20.5	20.9	18.5	19.9	18.9	20.2	20.6
	6H	19.2	20.5	19.7	20.9	21.3	19.0	20.2	19.4	20.6	21.0
	8H	19.4	20.6	19.8	21.0	21.4	19.1	20.3	19.5	20.7	21.1
	12H	19.5	20.6	19.9	21.0	21.4	19.2	20.3	19.6	20.7	21.1
4H	2H	17.1	18.5	17.5	18.8	19.2	16.9	18.3	17.3	18.6	19.0
	3H	19.0	20.1	19.4	20.5	20.9	18.7	19.9	19.2	20.3	20.7
	4H	19.7	20.7	20.1	21.1	21.6	19.4	20.5	19.9	20.9	21.3
	6H	20.2	21.1	20.7	21.6	22.0	20.0	20.9	20.4	21.3	21.8
	8H	20.4	21.2	20.9	21.7	22.2	20.2	21.0	20.6	21.4	21.9
	12H	20.5	21.3	21.0	21.7	22.2	20.3	21.0	20.7	21.5	22.0
8H	4H	20.0	20.8	20.4	21.2	21.7	19.7	20.6	20.2	21.0	21.5
	6H	20.6	21.3	21.1	21.8	22.2	20.4	21.1	20.9	21.6	22.0
	8H	20.8	21.4	21.3	22.0	22.4	20.6	21.2	21.1	21.7	22.2
	12H	21.0	21.6	21.5	22.0	22.6	20.8	21.3	21.3	21.8	22.4
12H	4H	20.0	20.7	20.5	21.2	21.7	19.7	20.5	20.2	21.0	21.4
	6H	20.6	21.3	21.2	21.7	22.3	20.4	21.1	20.9	21.5	22.0
	8H	20.9	21.5	21.4	22.0	22.5	20.7	21.3	21.2	21.7	22.3

(END OF REPORT)