

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-55-L850.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-55-L850.ies
Description: 2x2 D3X-LP AT 5500LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

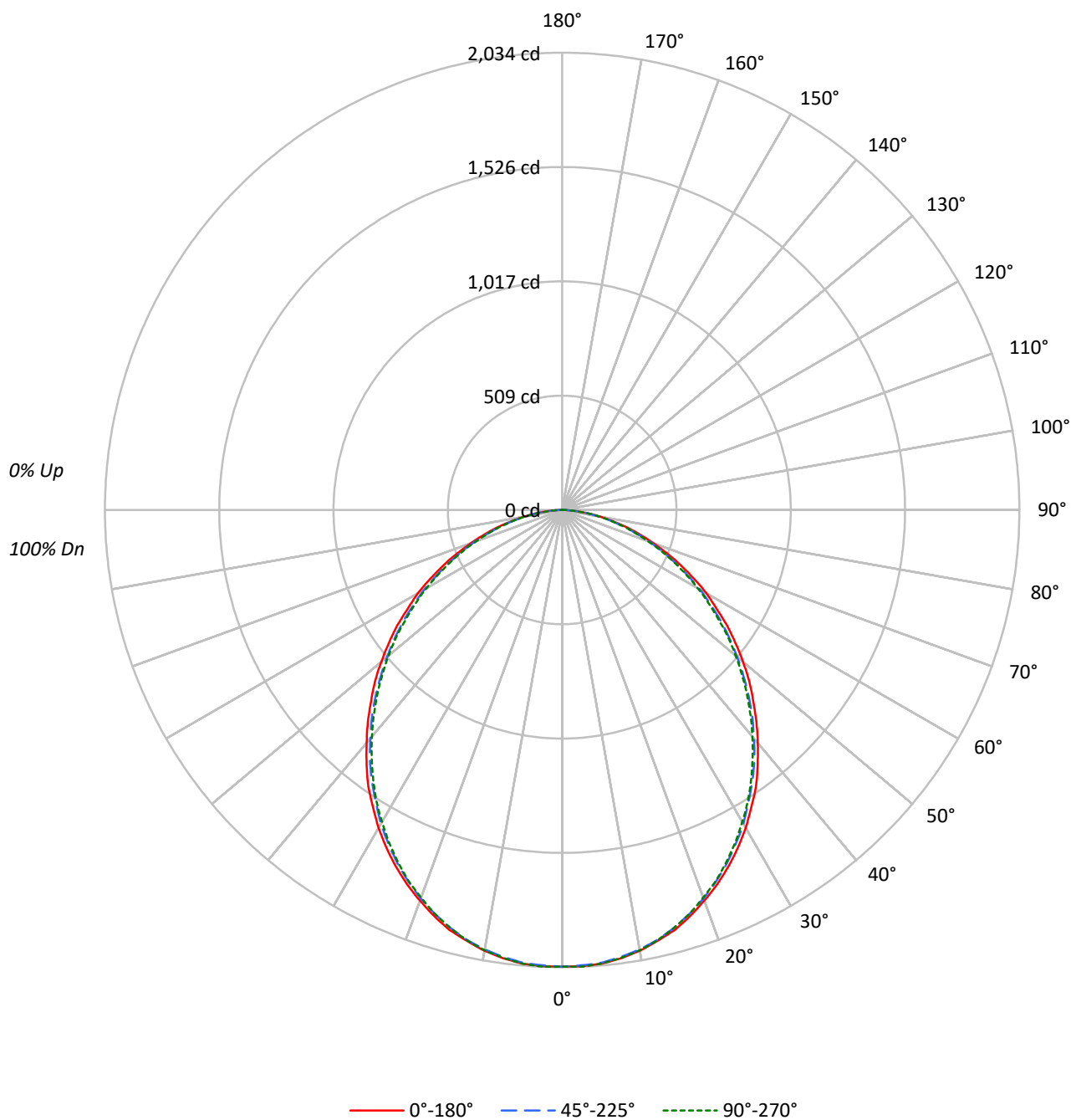
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5076.4 lumens
Efficiency: N/A
Efficacy: 111.8 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): 45.4
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	109	105	101	97	107	102	99	95		98	95	92			94	92	89			91
2	100	92	85	80	97	90	84	79		86	81	77			83	79	75			80
3	91	81	73	67	89	79	72	66		76	70	65			74	68	64			71
4	84	72	64	57	81	71	63	57		68	61	56			66	60	55			64
5	77	65	56	49	75	64	55	49		61	54	49			59	53	48			58
6	71	58	50	43	69	57	49	43		56	48	43			54	47	42			52
7	66	53	44	38	65	52	44	38		51	43	38			49	43	38			48
8	62	49	40	34	60	48	40	34		47	39	34			45	39	34			44
9	58	45	37	31	56	44	36	31		43	36	31			42	35	31			41
10	54	41	33	28	53	41	33	28		40	33	28			39	32	28			38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5467	5467	5467
5°	5471	5460	5471
10°	5440	5424	5435
15°	5389	5361	5361
20°	5296	5267	5255
25°	5197	5149	5131
30°	5074	5011	4979
35°	4939	4845	4812
40°	4755	4663	4627
45°	4574	4466	4427
50°	4396	4252	4218
55°	4196	4044	3987
60°	3986	3812	3757
65°	3710	3530	3491
70°	3391	3264	3184
75°	3092	2903	2924
80°	2665	2509	2540
85°	2062	1998	1874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.9	3.8
10°-20°	542.6	10.7
20°-30°	799.1	15.7
30°-40°	924.4	18.2
40°-50°	908.8	17.9
50°-60°	774.5	15.3
60°-70°	555.0	10.9
70°-80°	301.4	5.9
80°-90°	78.6	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°	1533.6	30.2
0°-40°	2458.1	48.4
0°-60°	4141.4	81.6
0°-90°	5076.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5076.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	2025	2021	2021	2021	2025	192
15°	1934	1926	1924	1922	1924	544
25°	1750	1742	1734	1730	1728	806
35°	1503	1491	1475	1467	1465	938
45°	1202	1194	1174	1163	1163	928
55°	894	878	862	852	850	799
65°	583	571	554	548	548	577
75°	297	287	279	275	281	314
85°	67	67	65	63	61	81
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2031.5	2031.5	2031.5	2031.5	2031.5
2.5°	2031.5	2029.5	2027.4	2029.5	2033.5
5°	2025.4	2021.4	2021.4	2021.4	2025.4
7.5°	2011.2	2007.2	2005.2	2007.2	2009.2
10°	1991.0	1987.0	1984.9	1987.0	1989.0
12.5°	1962.7	1960.7	1958.6	1958.6	1960.7
15°	1934.4	1926.3	1924.2	1922.2	1924.2
17.5°	1893.9	1891.9	1883.8	1883.8	1883.8
20°	1849.4	1845.3	1839.3	1835.2	1835.2
22.5°	1802.8	1798.8	1788.7	1784.6	1786.6
25°	1750.2	1742.1	1734.0	1730.0	1728.0
27.5°	1693.6	1685.5	1673.3	1667.3	1667.3
30°	1632.9	1626.8	1612.6	1604.5	1602.5
32.5°	1566.1	1562.0	1541.8	1537.8	1537.8
35°	1503.4	1491.2	1475.0	1467.0	1464.9
37.5°	1428.5	1420.4	1404.2	1394.1	1392.1
40°	1353.6	1343.5	1327.3	1319.2	1317.2
42.5°	1278.8	1268.7	1252.5	1242.4	1240.3
45°	1201.9	1193.8	1173.6	1163.4	1163.4
47.5°	1129.0	1112.9	1094.6	1086.6	1084.5
50°	1050.1	1036.0	1015.7	1007.6	1007.6
52.5°	971.2	961.1	938.8	934.8	930.8
55°	894.3	878.1	862.0	851.8	849.8
57.5°	811.4	797.2	781.0	772.9	772.9
60°	740.6	722.3	708.2	698.1	698.1
62.5°	659.6	643.4	629.3	623.2	621.2
65°	582.7	570.6	554.4	548.3	548.3
67.5°	505.8	495.7	481.6	475.5	477.5
70°	431.0	424.9	414.8	406.7	404.7
72.5°	362.2	354.1	344.0	342.0	342.0
75°	297.4	287.3	279.2	275.2	281.2
77.5°	230.7	224.6	220.5	218.5	220.5
80°	172.0	163.9	161.9	163.9	163.9
82.5°	119.4	115.3	113.3	113.3	113.3
85°	66.8	66.8	64.7	62.7	60.7
87.5°	26.3	26.3	28.3	28.3	30.4
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	16.9	18.5	17.2	18.8	19.1	16.6	18.2	17.0	18.5	18.9
	3H	18.5	20.0	18.9	20.3	20.7	18.2	19.7	18.6	20.0	20.4
	4H	19.1	20.5	19.5	20.8	21.2	18.8	20.2	19.2	20.5	20.9
	6H	19.6	20.8	20.0	21.2	21.6	19.3	20.5	19.7	20.9	21.3
	8H	19.7	20.9	20.1	21.3	21.7	19.4	20.6	19.8	21.0	21.4
	12H	19.8	20.9	20.2	21.3	21.7	19.5	20.6	19.9	21.0	21.4
4H	2H	17.4	18.8	17.8	19.1	19.5	17.2	18.6	17.6	18.9	19.3
	3H	19.3	20.4	19.7	20.8	21.2	19.1	20.2	19.5	20.6	21.0
	4H	20.0	21.0	20.4	21.4	21.9	19.8	20.8	20.2	21.2	21.6
	6H	20.5	21.4	21.0	21.9	22.3	20.3	21.2	20.8	21.6	22.1
	8H	20.7	21.6	21.2	22.0	22.5	20.5	21.3	20.9	21.7	22.2
	12H	20.8	21.6	21.3	22.1	22.5	20.6	21.3	21.1	21.8	22.3
8H	4H	20.3	21.1	20.7	21.5	22.0	20.0	20.9	20.5	21.3	21.8
	6H	20.9	21.6	21.4	22.1	22.6	20.7	21.4	21.2	21.9	22.3
	8H	21.1	21.8	21.6	22.3	22.7	20.9	21.5	21.4	22.0	22.5
	12H	21.3	21.9	21.8	22.4	22.9	21.1	21.6	21.6	22.1	22.7
12H	4H	20.3	21.0	20.8	21.5	22.0	20.1	20.8	20.5	21.3	21.7
	6H	20.9	21.6	21.5	22.0	22.6	20.7	21.4	21.3	21.8	22.4
	8H	21.2	21.8	21.7	22.3	22.8	21.0	21.6	21.5	22.1	22.6





(END OF REPORT)