

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-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-60-L850.ies
Description: 2x2 D3X-LP AT 6000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

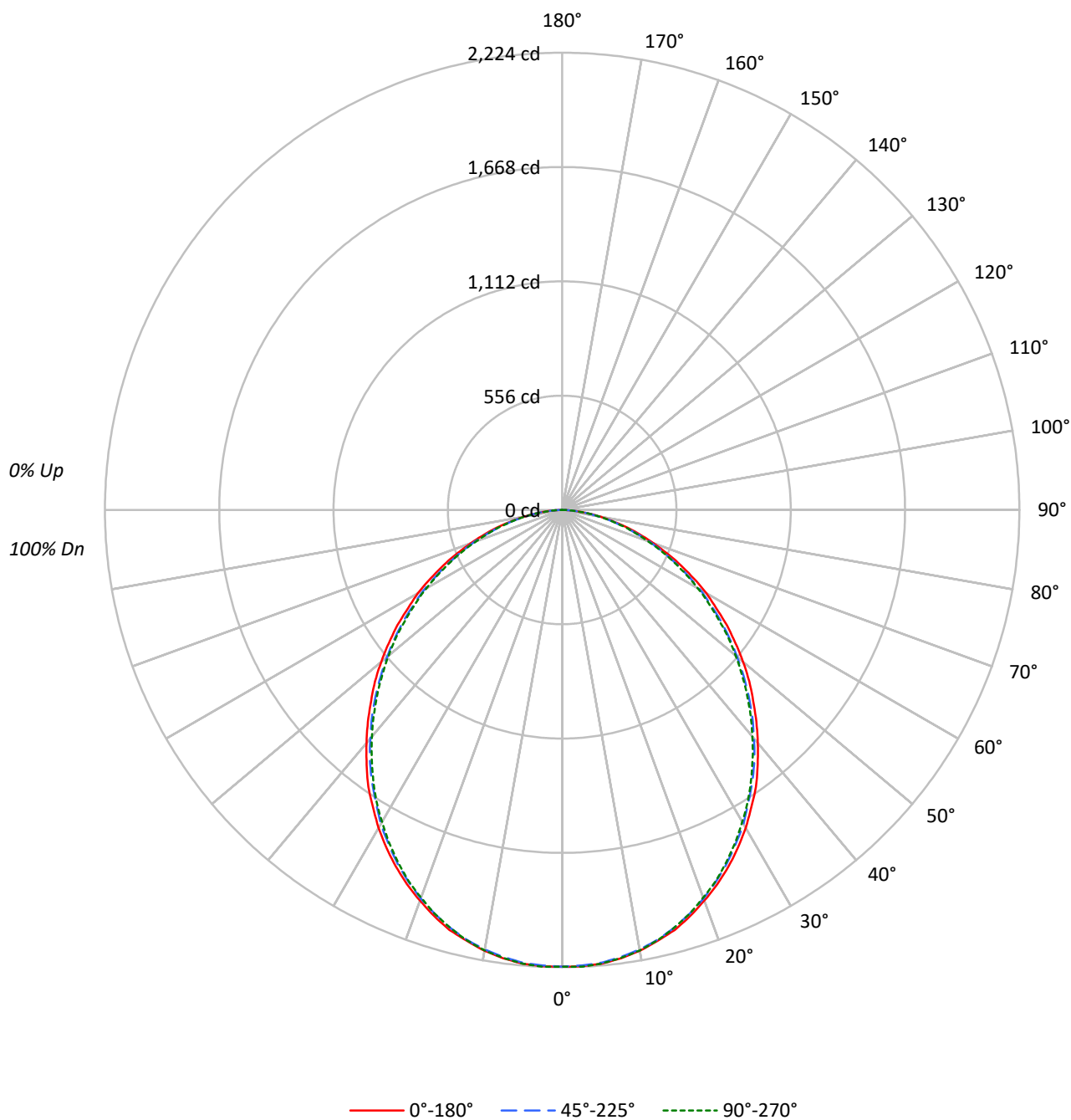
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5550.9 lumens
Efficiency: N/A
Efficacy: 105.7 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				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°	5977	5977	5977
5°	5982	5971	5982
10°	5949	5931	5943
15°	5892	5862	5862
20°	5791	5759	5747
25°	5682	5630	5610
30°	5548	5479	5445
35°	5400	5299	5262
40°	5200	5099	5060
45°	5001	4883	4842
50°	4807	4650	4613
55°	4588	4422	4359
60°	4358	4168	4108
65°	4057	3860	3818
70°	3708	3569	3482
75°	3381	3174	3197
80°	2915	2743	2777
85°	2254	2186	2050

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5001 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	3.8
10°-20°	593.3	10.7
20°-30°	873.8	15.7
30°-40°	1010.8	18.2
40°-50°	993.8	17.9
50°-60°	846.9	15.3
60°-70°	606.8	10.9
70°-80°	329.6	5.9
80°-90°	86.0	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°	1677.0	30.2
0°-40°	2687.8	48.4
0°-60°	4528.5	81.6
0°-90°	5550.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5550.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2221	2221	2221	2221	2221	
5°	2215	2210	2210	2210	2215	210
15°	2115	2106	2104	2102	2104	595
25°	1914	1905	1896	1892	1890	881
35°	1644	1631	1613	1604	1602	1025
45°	1314	1305	1283	1272	1272	1015
55°	978	960	942	932	929	873
65°	637	624	606	600	600	631
75°	325	314	305	301	308	344
85°	73	73	71	69	66	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2221.3	2221.3	2221.3	2221.3	2221.3
2.5°	2221.3	2219.1	2216.9	2219.1	2223.6
5°	2214.7	2210.3	2210.3	2210.3	2214.7
7.5°	2199.2	2194.8	2192.6	2194.8	2197.0
10°	2177.1	2172.7	2170.5	2172.7	2174.9
12.5°	2146.1	2143.9	2141.7	2141.7	2143.9
15°	2115.1	2106.3	2104.1	2101.9	2104.1
17.5°	2070.9	2068.7	2059.8	2059.8	2059.8
20°	2022.2	2017.8	2011.2	2006.7	2006.7
22.5°	1971.3	1966.9	1955.8	1951.4	1953.6
25°	1913.8	1905.0	1896.1	1891.7	1889.5
27.5°	1851.9	1843.0	1829.7	1823.1	1823.1
30°	1785.5	1778.8	1763.4	1754.5	1752.3
32.5°	1712.5	1708.0	1685.9	1681.5	1681.5
35°	1643.9	1630.6	1612.9	1604.1	1601.8
37.5°	1562.0	1553.2	1535.5	1524.4	1522.2
40°	1480.2	1469.1	1451.4	1442.5	1440.3
42.5°	1398.3	1387.2	1369.5	1358.5	1356.3
45°	1314.2	1305.4	1283.2	1272.2	1272.2
47.5°	1234.6	1216.9	1197.0	1188.1	1185.9
50°	1148.3	1132.8	1110.7	1101.8	1101.8
52.5°	1062.0	1050.9	1026.6	1022.2	1017.7
55°	977.9	960.2	942.5	931.5	929.2
57.5°	887.2	871.7	854.0	845.2	845.2
60°	809.8	789.9	774.4	763.3	763.3
62.5°	721.3	703.6	688.1	681.4	679.2
65°	637.2	623.9	606.2	599.6	599.6
67.5°	553.1	542.1	526.6	519.9	522.1
70°	471.3	464.6	453.6	444.7	442.5
72.5°	396.0	387.2	376.1	373.9	373.9
75°	325.2	314.2	305.3	300.9	307.5
77.5°	252.2	245.6	241.2	238.9	241.2
80°	188.1	179.2	177.0	179.2	179.2
82.5°	130.5	126.1	123.9	123.9	123.9
85°	73.0	73.0	70.8	68.6	66.4
87.5°	28.8	28.8	31.0	31.0	33.2
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	17.2	18.8	17.6	19.1	19.4	17.0	18.5	17.3	18.9	19.2
	3H	18.8	20.3	19.2	20.6	21.0	18.6	20.0	18.9	20.3	20.7
	4H	19.4	20.8	19.8	21.1	21.5	19.1	20.5	19.5	20.8	21.2
	6H	19.9	21.1	20.3	21.5	21.9	19.6	20.8	20.0	21.2	21.6
	8H	20.0	21.2	20.4	21.6	22.0	19.7	20.9	20.1	21.3	21.7
	12H	20.1	21.2	20.5	21.6	22.0	19.8	20.9	20.2	21.3	21.7
4H	2H	17.7	19.1	18.1	19.4	19.8	17.5	18.9	17.9	19.2	19.6
	3H	19.6	20.7	20.0	21.1	21.5	19.4	20.5	19.8	20.9	21.3
	4H	20.3	21.3	20.8	21.8	22.2	20.1	21.1	20.5	21.5	21.9
	6H	20.9	21.7	21.3	22.2	22.6	20.6	21.5	21.1	21.9	22.4
	8H	21.0	21.9	21.5	22.3	22.8	20.8	21.6	21.2	22.1	22.5
	12H	21.1	21.9	21.6	22.4	22.8	20.9	21.6	21.4	22.1	22.6
8H	4H	20.6	21.4	21.0	21.8	22.3	20.3	21.2	20.8	21.6	22.1
	6H	21.2	21.9	21.7	22.4	22.9	21.0	21.7	21.5	22.2	22.6
	8H	21.4	22.1	22.0	22.6	23.1	21.2	21.8	21.7	22.4	22.8
	12H	21.6	22.2	22.1	22.7	23.2	21.4	21.9	21.9	22.4	23.0
12H	4H	20.6	21.3	21.1	21.8	22.3	20.4	21.1	20.8	21.6	22.1
	6H	21.3	21.9	21.8	22.3	22.9	21.0	21.7	21.6	22.1	22.7
	8H	21.5	22.1	22.0	22.6	23.1	21.3	21.9	21.8	22.4	22.9

(END OF REPORT)