

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-35-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-35-L850.ies
Description: 2x2 D3X-LP AT 3500LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

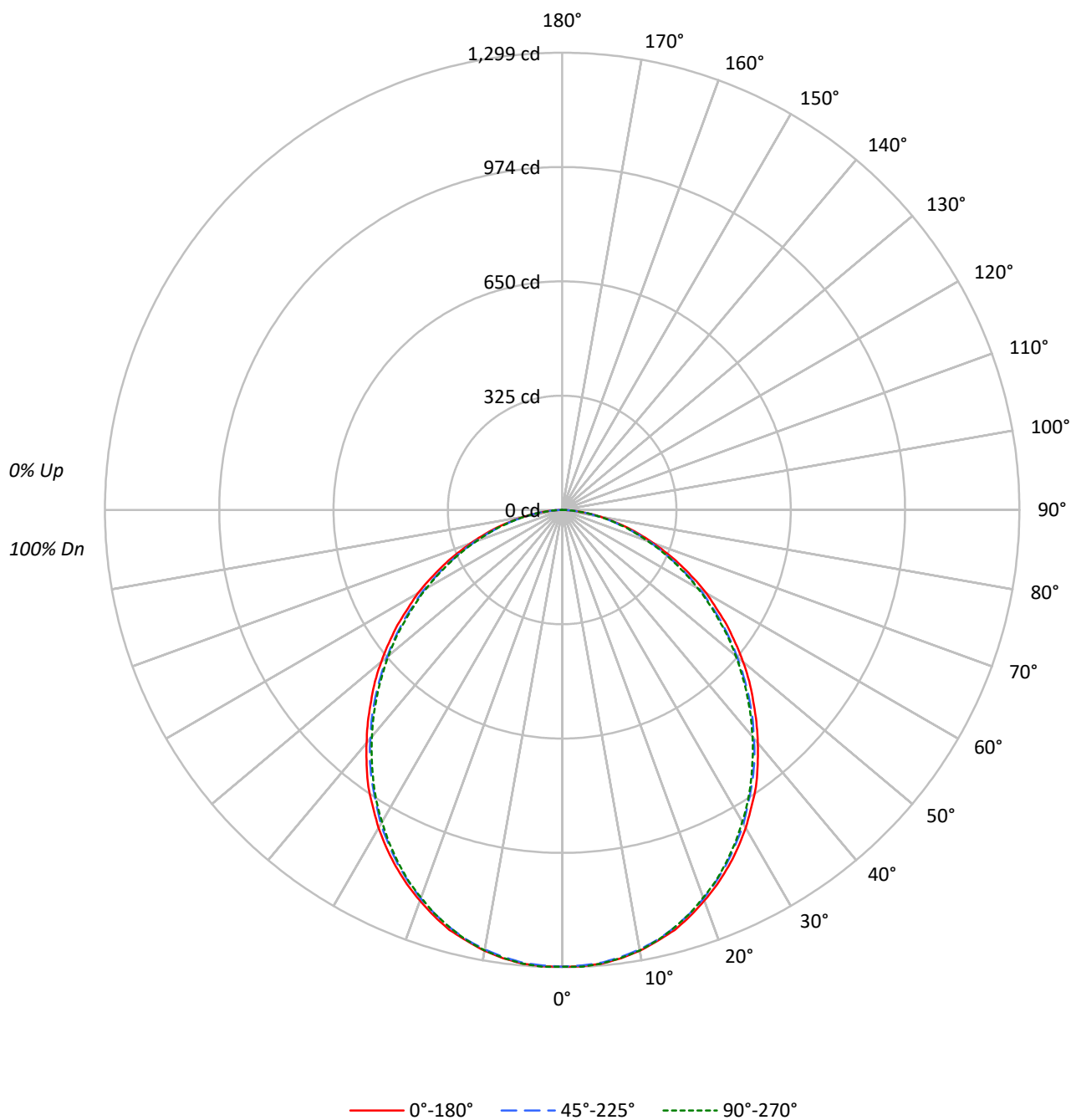
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3242.3 lumens
Efficiency: N/A
Efficacy: 112.6 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): 28.8
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
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°	3492	3492	3492
5°	3494	3487	3494
10°	3475	3464	3471
15°	3442	3424	3424
20°	3383	3364	3357
25°	3319	3288	3277
30°	3241	3200	3180
35°	3154	3095	3074
40°	3037	2978	2955
45°	2921	2852	2828
50°	2808	2716	2694
55°	2680	2583	2547
60°	2546	2434	2399
65°	2370	2255	2230
70°	2166	2084	2034
75°	1975	1854	1867
80°	1702	1602	1623
85°	1315	1278	1198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2921 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.8
10°-20°	346.5	10.7
20°-30°	510.4	15.7
30°-40°	590.4	18.2
40°-50°	580.5	17.9
50°-60°	494.7	15.3
60°-70°	354.4	10.9
70°-80°	192.5	5.9
80°-90°	50.2	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°	979.5	30.2
0°-40°	1569.9	48.4
0°-60°	2645.1	81.6
0°-90°	3242.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3242.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1294	1291	1291	1291	1294	123
15°	1235	1230	1229	1228	1229	348
25°	1118	1113	1108	1105	1104	515
35°	960	952	942	937	936	599
45°	768	762	750	743	743	593
55°	571	561	550	544	543	510
65°	372	364	354	350	350	369
75°	190	184	178	176	180	201
85°	43	43	41	40	39	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.5	1297.5	1297.5	1297.5	1297.5
2.5°	1297.5	1296.2	1294.9	1296.2	1298.8
5°	1293.6	1291.0	1291.0	1291.0	1293.6
7.5°	1284.5	1282.0	1280.7	1282.0	1283.2
10°	1271.6	1269.0	1267.7	1269.0	1270.3
12.5°	1253.5	1252.2	1250.9	1250.9	1252.2
15°	1235.4	1230.3	1229.0	1227.7	1229.0
17.5°	1209.6	1208.3	1203.1	1203.1	1203.1
20°	1181.2	1178.6	1174.7	1172.1	1172.1
22.5°	1151.4	1148.8	1142.4	1139.8	1141.1
25°	1117.8	1112.7	1107.5	1104.9	1103.6
27.5°	1081.7	1076.5	1068.7	1064.9	1064.9
30°	1042.9	1039.0	1030.0	1024.8	1023.5
32.5°	1000.2	997.7	984.7	982.1	982.1
35°	960.2	952.4	942.1	936.9	935.6
37.5°	912.4	907.2	896.9	890.4	889.1
40°	864.5	858.1	847.7	842.6	841.3
42.5°	816.7	810.3	799.9	793.5	792.2
45°	767.6	762.5	749.5	743.1	743.1
47.5°	721.1	710.8	699.1	694.0	692.7
50°	670.7	661.7	648.7	643.6	643.6
52.5°	620.3	613.8	599.6	597.0	594.5
55°	571.2	560.9	550.5	544.1	542.8
57.5°	518.2	509.2	498.8	493.7	493.7
60°	473.0	461.3	452.3	445.8	445.8
62.5°	421.3	410.9	401.9	398.0	396.7
65°	372.2	364.4	354.1	350.2	350.2
67.5°	323.1	316.6	307.6	303.7	305.0
70°	275.3	271.4	264.9	259.8	258.5
72.5°	231.3	226.2	219.7	218.4	218.4
75°	190.0	183.5	178.3	175.8	179.6
77.5°	147.3	143.4	140.9	139.6	140.9
80°	109.8	104.7	103.4	104.7	104.7
82.5°	76.2	73.7	72.4	72.4	72.4
85°	42.6	42.6	41.4	40.1	38.8
87.5°	16.8	16.8	18.1	18.1	19.4
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	15.3	16.9	15.7	17.2	17.5	15.1	16.7	15.4	17.0	17.3
	3H	17.0	18.4	17.4	18.7	19.1	16.7	18.1	17.1	18.5	18.8
	4H	17.6	18.9	18.0	19.3	19.7	17.3	18.6	17.7	19.0	19.4
	6H	18.0	19.2	18.4	19.6	20.0	17.7	19.0	18.1	19.3	19.7
	8H	18.1	19.3	18.6	19.7	20.1	17.8	19.0	18.3	19.4	19.8
	12H	18.2	19.3	18.6	19.7	20.2	17.9	19.0	18.3	19.4	19.9
4H	2H	15.9	17.2	16.3	17.6	17.9	15.7	17.0	16.1	17.4	17.7
	3H	17.7	18.9	18.1	19.3	19.7	17.5	18.6	17.9	19.0	19.4
	4H	18.5	19.5	18.9	19.9	20.3	18.2	19.2	18.6	19.6	20.1
	6H	19.0	19.9	19.4	20.3	20.8	18.7	19.6	19.2	20.1	20.5
	8H	19.2	20.0	19.6	20.4	20.9	18.9	19.7	19.4	20.2	20.7
	12H	19.3	20.0	19.8	20.5	21.0	19.0	19.8	19.5	20.2	20.7
8H	4H	18.7	19.5	19.2	20.0	20.4	18.5	19.3	18.9	19.7	20.2
	6H	19.3	20.0	19.8	20.5	21.0	19.1	19.8	19.6	20.3	20.8
	8H	19.6	20.2	20.1	20.7	21.2	19.4	20.0	19.9	20.5	21.0
	12H	19.8	20.3	20.3	20.8	21.4	19.5	20.1	20.0	20.6	21.1
12H	4H	18.7	19.5	19.2	19.9	20.4	18.5	19.2	19.0	19.7	20.2
	6H	19.4	20.0	19.9	20.5	21.0	19.2	19.8	19.7	20.3	20.8
	8H	19.7	20.2	20.2	20.7	21.3	19.5	20.0	20.0	20.5	21.1



(END OF REPORT)