

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-30-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-30-L950.ies
Description: 2x2 D3X-LP AT 3000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

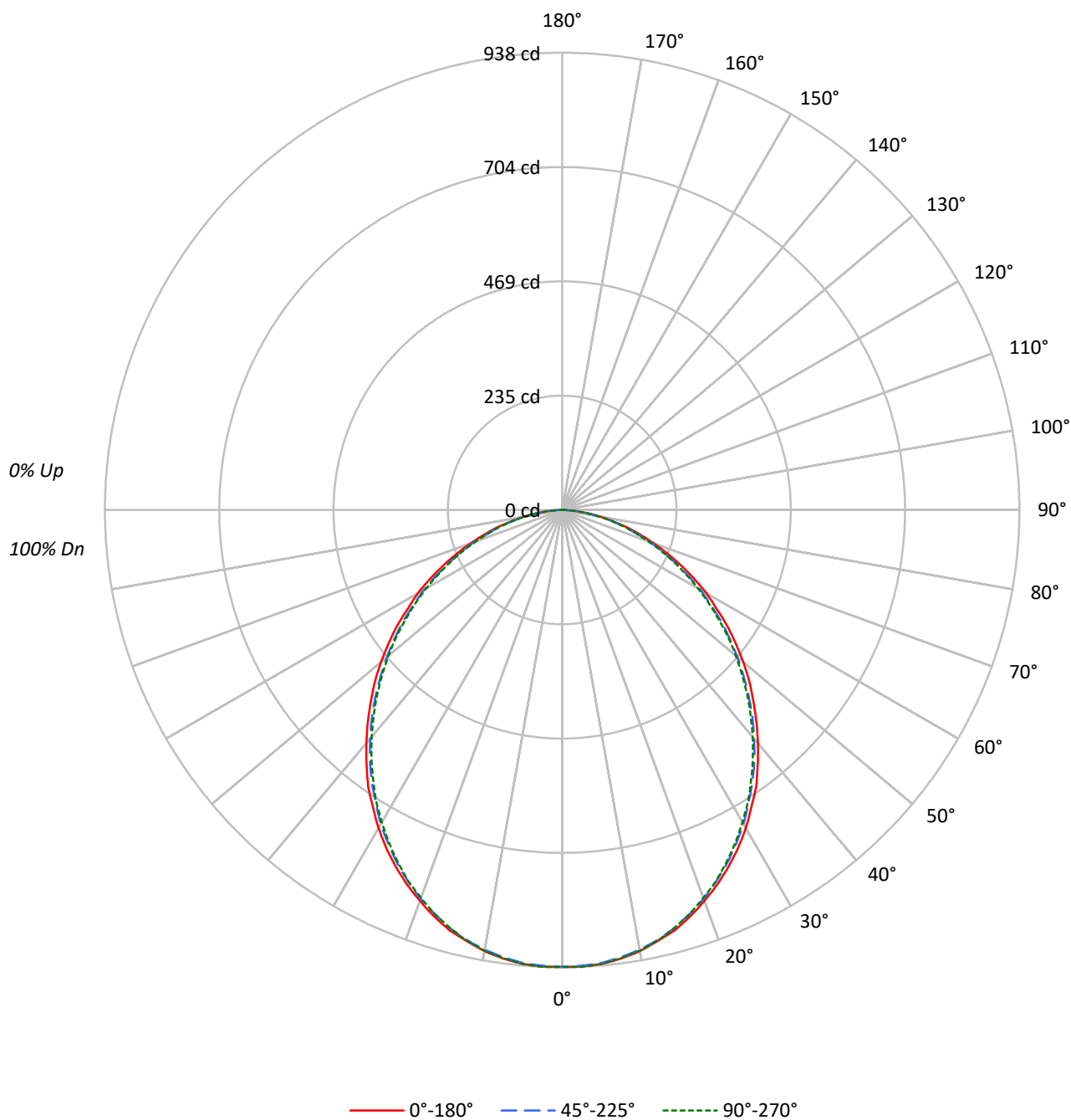
Lumens per Lamp: N/A
Luminaire Lumens: 2342.6 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.6
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		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	105	101	97	107	102	99	95		98	95	92		94	92	89		91	89	87
2	100	92	85	80	97	90	84	79		86	81	77		83	79	75		80	77	73
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	67	63
4	84	72	64	57	81	71	63	57		68	61	56		66	60	55		64	59	54
5	77	65	56	49	75	64	55	49		61	54	49		59	53	48		58	52	48
6	71	58	50	43	69	57	49	43		56	48	43		54	47	42		52	47	42
7	66	53	44	38	65	52	44	38		51	43	38		49	43	38		48	42	37
8	62	49	40	34	60	48	40	34		47	39	34		45	39	34		44	38	34
9	58	45	37	31	56	44	36	31		43	36	31		42	35	31		41	35	31
10	54	41	33	28	53	41	33	28		40	33	28		39	32	28		38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2523	2523	2523
5°	2525	2520	2525
10°	2511	2503	2508
15°	2487	2474	2474
20°	2444	2430	2425
25°	2398	2376	2368
30°	2341	2312	2298
35°	2279	2236	2221
40°	2194	2152	2135
45°	2111	2061	2043
50°	2029	1962	1947
55°	1936	1866	1840
60°	1839	1759	1734
65°	1712	1629	1611
70°	1565	1506	1469
75°	1428	1340	1350
80°	1230	1158	1172
85°	951	923	865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2111 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.8
10°-20°	250.4	10.7
20°-30°	368.8	15.7
30°-40°	426.6	18.2
40°-50°	419.4	17.9
50°-60°	357.4	15.3
60°-70°	256.1	10.9
70°-80°	139.1	5.9
80°-90°	36.3	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°	707.7	30.2
0°-40°	1134.3	48.4
0°-60°	1911.1	81.6
0°-90°	2342.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2342.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	937	937	937	937	937	
5°	935	933	933	933	935	89
15°	893	889	888	887	888	251
25°	808	804	800	798	797	372
35°	694	688	681	677	676	433
45°	555	551	542	537	537	428
55°	413	405	398	393	392	368
65°	269	263	256	253	253	266
75°	137	133	129	127	130	145
85°	31	31	30	29	28	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	937.4	937.4	937.4	937.4	937.4
2.5°	937.4	936.5	935.6	936.5	938.4
5°	934.6	932.8	932.8	932.8	934.6
7.5°	928.1	926.2	925.3	926.2	927.2
10°	918.8	916.9	916.0	916.9	917.8
12.5°	905.7	904.8	903.8	903.8	904.8
15°	892.6	888.9	888.0	887.0	888.0
17.5°	874.0	873.0	869.3	869.3	869.3
20°	853.4	851.5	848.7	846.9	846.9
22.5°	831.9	830.1	825.4	823.5	824.5
25°	807.7	803.9	800.2	798.3	797.4
27.5°	781.5	777.8	772.2	769.4	769.4
30°	753.5	750.7	744.2	740.4	739.5
32.5°	722.7	720.8	711.5	709.6	709.6
35°	693.7	688.1	680.7	676.9	676.0
37.5°	659.2	655.5	648.0	643.3	642.4
40°	624.7	620.0	612.5	608.8	607.8
42.5°	590.1	585.4	578.0	573.3	572.4
45°	554.6	550.9	541.6	536.9	536.9
47.5°	521.0	513.5	505.1	501.4	500.5
50°	484.6	478.1	468.7	465.0	465.0
52.5°	448.2	443.5	433.2	431.4	429.5
55°	412.7	405.2	397.8	393.1	392.2
57.5°	374.4	367.9	360.4	356.7	356.7
60°	341.7	333.3	326.8	322.1	322.1
62.5°	304.4	296.9	290.4	287.6	286.6
65°	268.9	263.3	255.8	253.0	253.0
67.5°	233.4	228.8	222.2	219.4	220.4
70°	198.9	196.1	191.4	187.7	186.7
72.5°	167.1	163.4	158.7	157.8	157.8
75°	137.3	132.6	128.9	127.0	129.8
77.5°	106.4	103.6	101.8	100.8	101.8
80°	79.4	75.6	74.7	75.6	75.6
82.5°	55.1	53.2	52.3	52.3	52.3
85°	30.8	30.8	29.9	28.9	28.0
87.5°	12.1	12.1	13.1	13.1	14.0
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	14.2	15.8	14.6	16.1	16.4	14.0	15.5	14.3	15.9	16.2
	3H	15.8	17.3	16.2	17.6	18.0	15.6	17.0	15.9	17.3	17.7
	4H	16.4	17.8	16.8	18.1	18.5	16.2	17.5	16.5	17.8	18.2
	6H	16.9	18.1	17.3	18.5	18.9	16.6	17.8	17.0	18.2	18.6
	8H	17.0	18.2	17.4	18.6	19.0	16.7	17.9	17.1	18.3	18.7
	12H	17.1	18.2	17.5	18.6	19.0	16.8	17.9	17.2	18.3	18.7
4H	2H	14.7	16.1	15.1	16.4	16.8	14.5	15.9	14.9	16.2	16.6
	3H	16.6	17.7	17.0	18.1	18.5	16.4	17.5	16.8	17.9	18.3
	4H	17.3	18.3	17.8	18.8	19.2	17.1	18.1	17.5	18.5	18.9
	6H	17.9	18.7	18.3	19.2	19.6	17.6	18.5	18.1	18.9	19.4
	8H	18.0	18.9	18.5	19.3	19.8	17.8	18.6	18.2	19.1	19.5
	12H	18.1	18.9	18.6	19.4	19.8	17.9	18.6	18.4	19.1	19.6
8H	4H	17.6	18.4	18.0	18.8	19.3	17.3	18.2	17.8	18.6	19.1
	6H	18.2	18.9	18.7	19.4	19.9	18.0	18.7	18.5	19.2	19.6
	8H	18.4	19.1	19.0	19.6	20.1	18.2	18.9	18.7	19.4	19.8
	12H	18.6	19.2	19.1	19.7	20.2	18.4	18.9	18.9	19.4	20.0
12H	4H	17.6	18.3	18.1	18.8	19.3	17.4	18.1	17.8	18.6	19.1
	6H	18.3	18.9	18.8	19.3	19.9	18.0	18.7	18.6	19.1	19.7
	8H	18.5	19.1	19.0	19.6	20.1	18.3	18.9	18.8	19.4	19.9

(END OF REPORT)