

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-L927.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-L927.ies
Description: 2x2 D3X-LP AT 3000LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

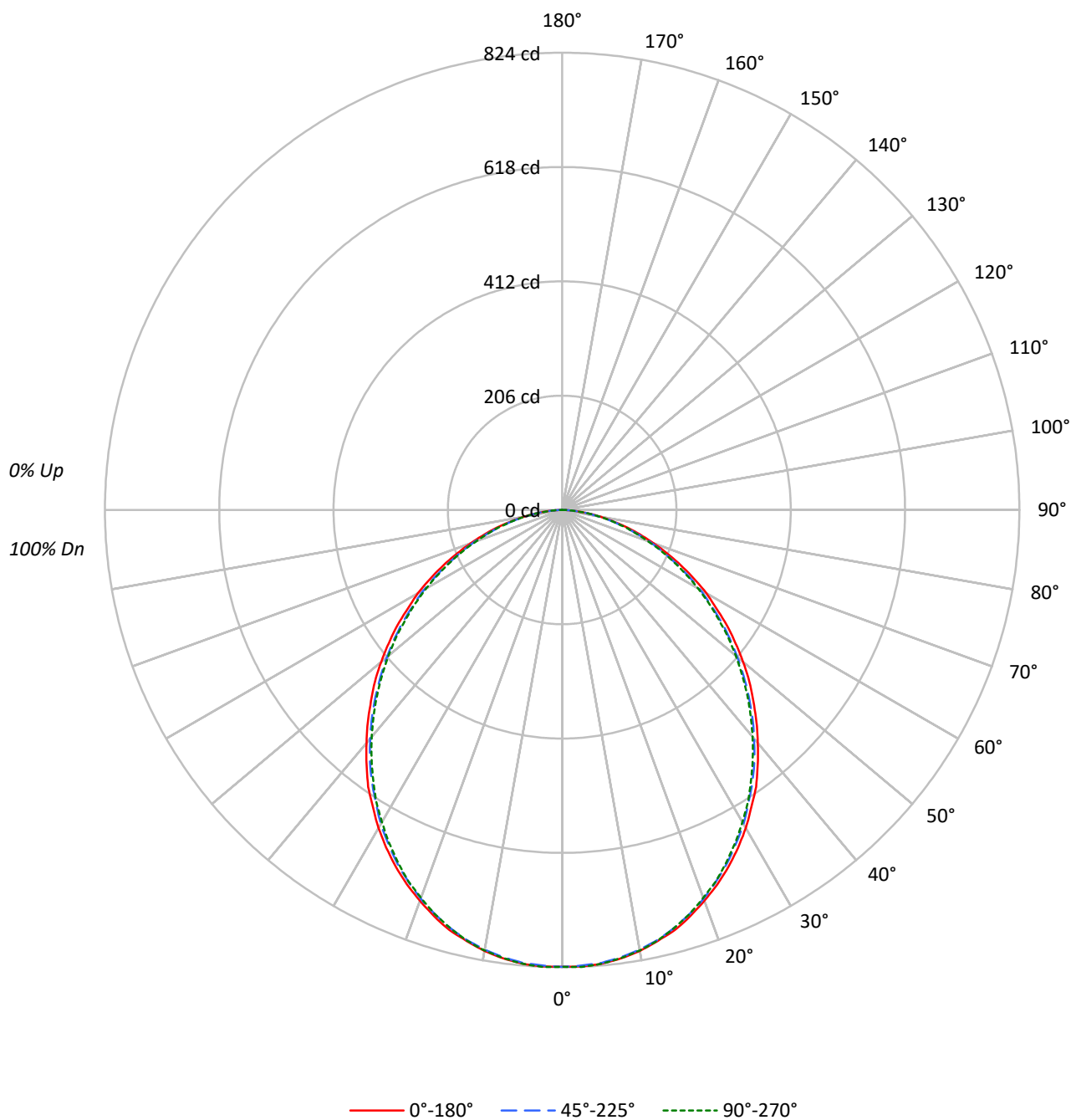
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2057.4 lumens
Efficiency: N/A
Efficacy: 83.6 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): 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		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°	2215	2215	2215
5°	2217	2213	2217
10°	2205	2198	2203
15°	2184	2173	2173
20°	2146	2135	2130
25°	2106	2087	2079
30°	2056	2031	2018
35°	2002	1964	1950
40°	1927	1890	1875
45°	1854	1810	1794
50°	1782	1724	1710
55°	1701	1639	1616
60°	1615	1545	1523
65°	1504	1431	1415
70°	1375	1323	1290
75°	1253	1177	1185
80°	1080	1017	1029
85°	837	809	760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1854 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	3.8
10°-20°	219.9	10.7
20°-30°	323.9	15.7
30°-40°	374.7	18.2
40°-50°	368.3	17.9
50°-60°	313.9	15.3
60°-70°	224.9	10.9
70°-80°	122.2	5.9
80°-90°	31.9	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°	621.6	30.2
0°-40°	996.2	48.4
0°-60°	1678.5	81.6
0°-90°	2057.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2057.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	821	819	819	819	821	78
15°	784	781	780	779	780	221
25°	709	706	703	701	700	327
35°	609	604	598	594	594	380
45°	487	484	476	472	472	376
55°	362	356	349	345	344	324
65°	236	231	225	222	222	234
75°	120	116	113	112	114	127
85°	27	27	26	25	25	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.3	823.3	823.3	823.3	823.3
2.5°	823.3	822.5	821.7	822.5	824.2
5°	820.9	819.2	819.2	819.2	820.9
7.5°	815.1	813.5	812.7	813.5	814.3
10°	806.9	805.3	804.5	805.3	806.1
12.5°	795.5	794.6	793.8	793.8	794.6
15°	784.0	780.7	779.9	779.1	779.9
17.5°	767.6	766.8	763.5	763.5	763.5
20°	749.5	747.9	745.4	743.8	743.8
22.5°	730.7	729.0	724.9	723.3	724.1
25°	709.4	706.1	702.8	701.2	700.3
27.5°	686.4	683.1	678.2	675.7	675.7
30°	661.8	659.3	653.6	650.3	649.5
32.5°	634.7	633.1	624.9	623.2	623.2
35°	609.3	604.4	597.8	594.5	593.7
37.5°	579.0	575.7	569.1	565.0	564.2
40°	548.6	544.5	538.0	534.7	533.9
42.5°	518.3	514.2	507.6	503.5	502.7
45°	487.1	483.8	475.6	471.5	471.5
47.5°	457.6	451.0	443.7	440.4	439.6
50°	425.6	419.9	411.7	408.4	408.4
52.5°	393.6	389.5	380.5	378.9	377.2
55°	362.5	355.9	349.3	345.2	344.4
57.5°	328.8	323.1	316.5	313.3	313.3
60°	300.1	292.8	287.0	282.9	282.9
62.5°	267.3	260.8	255.0	252.6	251.8
65°	236.2	231.3	224.7	222.2	222.2
67.5°	205.0	200.9	195.2	192.7	193.5
70°	174.7	172.2	168.1	164.8	164.0
72.5°	146.8	143.5	139.4	138.6	138.6
75°	120.5	116.4	113.2	111.5	114.0
77.5°	93.5	91.0	89.4	88.6	89.4
80°	69.7	66.4	65.6	66.4	66.4
82.5°	48.4	46.7	45.9	45.9	45.9
85°	27.1	27.1	26.2	25.4	24.6
87.5°	10.7	10.7	11.5	11.5	12.3
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	13.7	15.3	14.1	15.6	16.0	13.5	15.1	13.9	15.4	15.7
	3H	15.4	16.8	15.8	17.2	17.5	15.1	16.5	15.5	16.9	17.2
	4H	16.0	17.3	16.4	17.7	18.1	15.7	17.1	16.1	17.4	17.8
	6H	16.4	17.7	16.8	18.0	18.4	16.1	17.4	16.5	17.7	18.1
	8H	16.5	17.7	17.0	18.1	18.5	16.3	17.4	16.7	17.8	18.2
	12H	16.6	17.8	17.1	18.1	18.6	16.3	17.5	16.8	17.8	18.3
4H	2H	14.3	15.6	14.7	16.0	16.4	14.1	15.4	14.5	15.8	16.2
	3H	16.2	17.3	16.6	17.7	18.1	15.9	17.0	16.3	17.4	17.8
	4H	16.9	17.9	17.3	18.3	18.7	16.6	17.6	17.0	18.0	18.5
	6H	17.4	18.3	17.9	18.7	19.2	17.2	18.0	17.6	18.5	18.9
	8H	17.6	18.4	18.0	18.9	19.3	17.3	18.2	17.8	18.6	19.1
	12H	17.7	18.4	18.2	18.9	19.4	17.4	18.2	17.9	18.7	19.1
8H	4H	17.1	18.0	17.6	18.4	18.9	16.9	17.7	17.4	18.2	18.6
	6H	17.8	18.5	18.3	18.9	19.4	17.5	18.2	18.0	18.7	19.2
	8H	18.0	18.6	18.5	19.1	19.6	17.8	18.4	18.3	18.9	19.4
	12H	18.2	18.7	18.7	19.2	19.8	17.9	18.5	18.5	19.0	19.5
12H	4H	17.1	17.9	17.6	18.4	18.8	16.9	17.7	17.4	18.1	18.6
	6H	17.8	18.4	18.3	18.9	19.4	17.6	18.2	18.1	18.7	19.2
	8H	18.1	18.6	18.6	19.1	19.7	17.9	18.4	18.4	18.9	19.5

(END OF REPORT)