

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-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-35-L950.ies
Description: 2x2 D3X-LP AT 3500LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

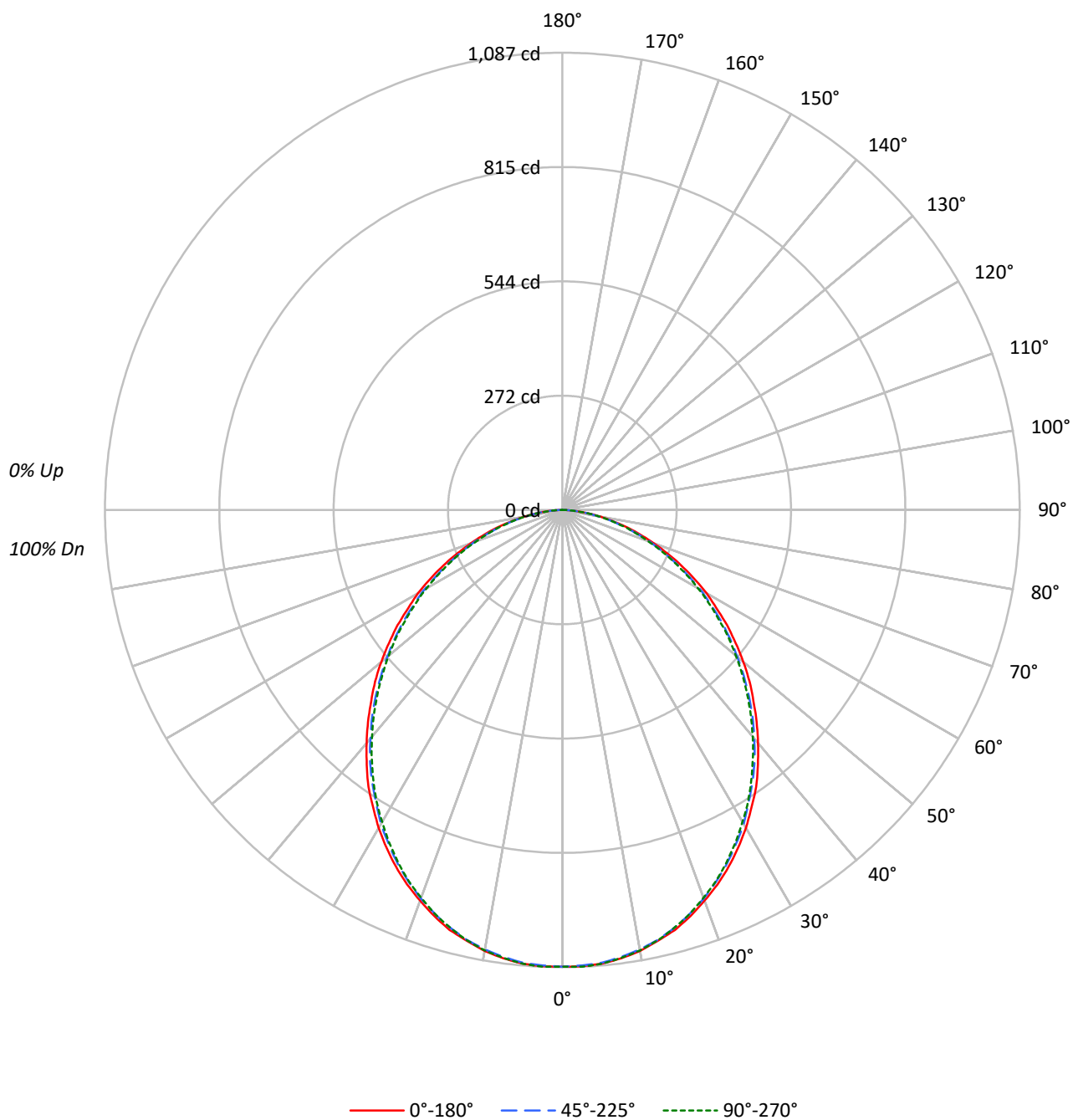
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2713.3 lumens
Efficiency: N/A
Efficacy: 94.2 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): 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°	2922	2922	2922
5°	2924	2918	2924
10°	2908	2899	2905
15°	2880	2865	2865
20°	2831	2815	2809
25°	2778	2752	2742
30°	2712	2678	2661
35°	2640	2590	2572
40°	2542	2492	2473
45°	2445	2387	2367
50°	2350	2273	2255
55°	2243	2161	2131
60°	2130	2037	2008
65°	1983	1887	1866
70°	1813	1744	1702
75°	1653	1551	1563
80°	1424	1340	1358
85°	1102	1068	1000

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2445 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	3.8
10°-20°	290.0	10.7
20°-30°	427.1	15.7
30°-40°	494.1	18.2
40°-50°	485.8	17.9
50°-60°	414.0	15.3
60°-70°	296.6	10.9
70°-80°	161.1	5.9
80°-90°	42.0	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°	819.7	30.2
0°-40°	1313.8	48.4
0°-60°	2213.6	81.6
0°-90°	2713.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2713.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1086	1086	1086	1086	1086	
5°	1083	1080	1080	1080	1083	103
15°	1034	1030	1028	1027	1028	291
25°	936	931	927	925	924	431
35°	804	797	788	784	783	501
45°	642	638	627	622	622	496
55°	478	469	461	455	454	427
65°	312	305	296	293	293	309
75°	159	154	149	147	150	168
85°	36	36	35	34	32	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1085.8	1085.8	1085.8	1085.8	1085.8
2.5°	1085.8	1084.7	1083.6	1084.7	1086.9
5°	1082.6	1080.4	1080.4	1080.4	1082.6
7.5°	1075.0	1072.8	1071.7	1072.8	1073.9
10°	1064.2	1062.0	1060.9	1062.0	1063.1
12.5°	1049.0	1048.0	1046.9	1046.9	1048.0
15°	1033.9	1029.6	1028.5	1027.4	1028.5
17.5°	1012.3	1011.2	1006.9	1006.9	1006.9
20°	988.5	986.3	983.1	980.9	980.9
22.5°	963.6	961.4	956.0	953.9	954.9
25°	935.5	931.2	926.8	924.7	923.6
27.5°	905.2	900.9	894.4	891.1	891.1
30°	872.8	869.5	861.9	857.6	856.5
32.5°	837.1	834.9	824.1	821.9	821.9
35°	803.5	797.1	788.4	784.1	783.0
37.5°	763.5	759.2	750.5	745.1	744.1
40°	723.5	718.1	709.5	705.1	704.0
42.5°	683.5	678.1	669.4	664.0	662.9
45°	642.4	638.1	627.3	621.9	621.9
47.5°	603.5	594.8	585.1	580.8	579.7
50°	561.3	553.7	542.9	538.6	538.6
52.5°	519.1	513.7	501.8	499.6	497.5
55°	478.0	469.4	460.7	455.3	454.2
57.5°	433.7	426.1	417.5	413.1	413.1
60°	395.8	386.1	378.5	373.1	373.1
62.5°	352.6	343.9	336.3	333.1	332.0
65°	311.5	305.0	296.3	293.1	293.1
67.5°	270.4	265.0	257.4	254.1	255.2
70°	230.4	227.1	221.7	217.4	216.3
72.5°	193.6	189.3	183.9	182.8	182.8
75°	159.0	153.6	149.2	147.1	150.3
77.5°	123.3	120.0	117.9	116.8	117.9
80°	91.9	87.6	86.5	87.6	87.6
82.5°	63.8	61.6	60.6	60.6	60.6
85°	35.7	35.7	34.6	33.5	32.4
87.5°	14.1	14.1	15.1	15.1	16.2
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	14.7	16.3	15.1	16.6	16.9	14.5	16.1	14.8	16.4	16.7
	3H	16.4	17.8	16.7	18.1	18.5	16.1	17.5	16.4	17.8	18.2
	4H	17.0	18.3	17.4	18.7	19.0	16.7	18.0	17.1	18.4	18.7
	6H	17.4	18.6	17.8	19.0	19.4	17.1	18.3	17.5	18.7	19.1
	8H	17.5	18.7	17.9	19.1	19.5	17.2	18.4	17.6	18.8	19.2
	12H	17.6	18.7	18.0	19.1	19.5	17.3	18.4	17.7	18.8	19.2
4H	2H	15.2	16.6	15.6	16.9	17.3	15.1	16.4	15.4	16.7	17.1
	3H	17.1	18.2	17.5	18.6	19.0	16.9	18.0	17.3	18.4	18.8
	4H	17.8	18.9	18.3	19.3	19.7	17.6	18.6	18.0	19.0	19.4
	6H	18.4	19.3	18.8	19.7	20.2	18.1	19.0	18.6	19.4	19.9
	8H	18.5	19.4	19.0	19.8	20.3	18.3	19.1	18.8	19.6	20.0
	12H	18.7	19.4	19.1	19.9	20.3	18.4	19.1	18.9	19.6	20.1
8H	4H	18.1	18.9	18.5	19.4	19.8	17.9	18.7	18.3	19.1	19.6
	6H	18.7	19.4	19.2	19.9	20.4	18.5	19.2	19.0	19.7	20.2
	8H	19.0	19.6	19.5	20.1	20.6	18.7	19.4	19.3	19.9	20.4
	12H	19.1	19.7	19.6	20.2	20.7	18.9	19.5	19.4	19.9	20.5
12H	4H	18.1	18.8	18.6	19.3	19.8	17.9	18.6	18.4	19.1	19.6
	6H	18.8	19.4	19.3	19.9	20.4	18.6	19.2	19.1	19.6	20.2
	8H	19.0	19.6	19.6	20.1	20.6	18.8	19.4	19.3	19.9	20.4

(END OF REPORT)