

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P188395

Luminaire Tested: **22SR-LD2-29-C-UNV-L835-CD1-ST-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188395  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24794)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-29-C-UNV-L835-CD1-ST-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STRAW SKYTRIM.  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

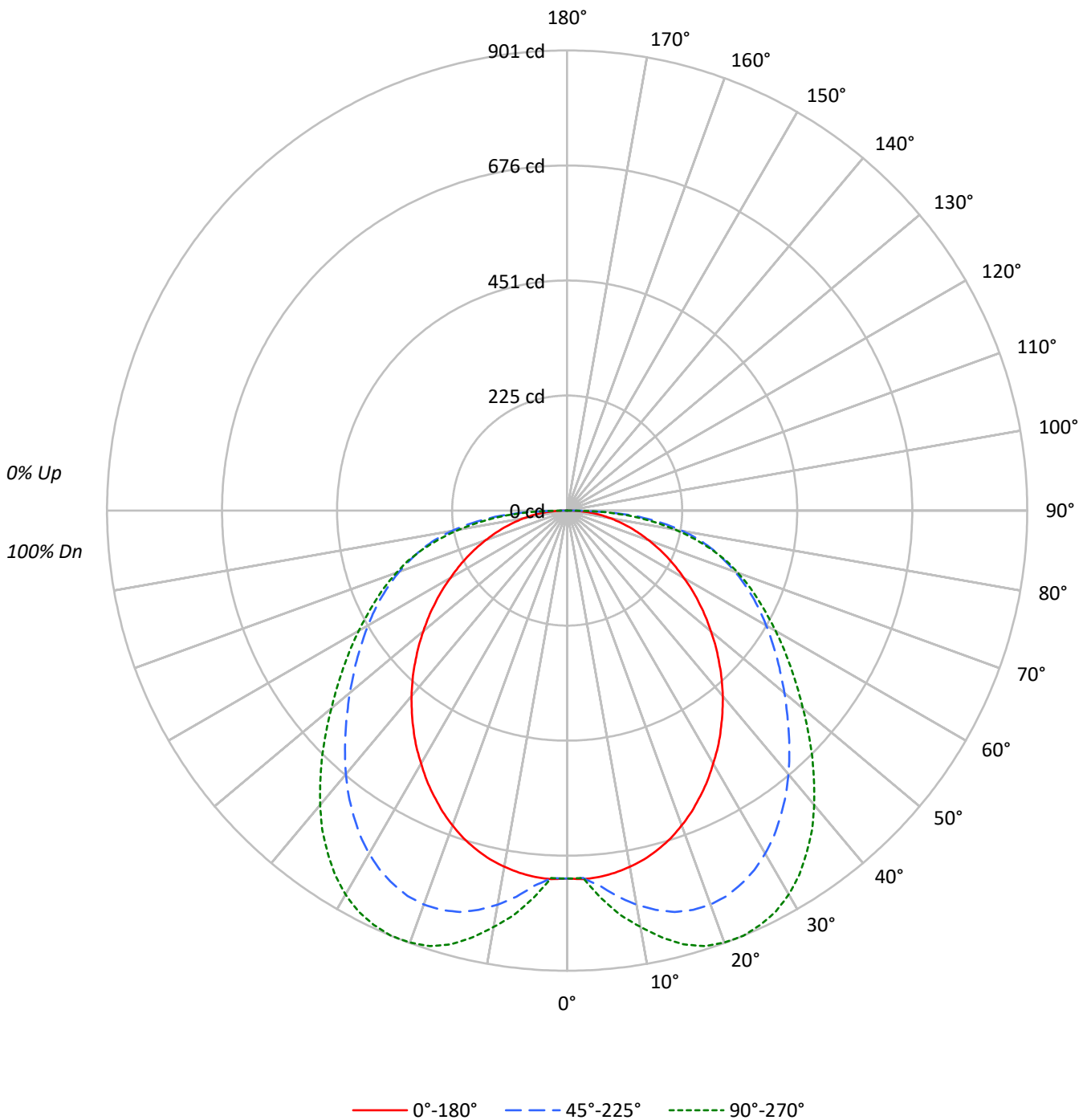
Lumens per Lamp: N/A  
Luminaire Lumens: 2727.0 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.62 / 1.55  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): 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: 25 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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	83	80
2	97	87	80	74	94	86	79	73	82	76	71	79	74	69	75	71	68	65
3	88	76	67	60	85	75	66	60	72	64	59	69	63	58	66	61	57	54
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	49	42	54	47	42	52	46	42	39
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2111	2111	2111
5°	2119	2169	2240
10°	2107	2331	2463
15°	2084	2468	2666
20°	2045	2559	2807
25°	1994	2608	2894
30°	1934	2624	2937
35°	1876	2609	2925
40°	1814	2578	2878
45°	1744	2543	2810
50°	1676	2532	2748
55°	1611	2561	2730
60°	1548	2638	2761
65°	1498	2779	2863
70°	1455	2995	3046
75°	1433	3344	3309
80°	1441	3864	3628
85°	1520	4760	4290



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.6	2.6
10°-20°	225.4	8.3
20°-30°	361.2	13.2
30°-40°	441.1	16.2
40°-50°	454.2	16.7
50°-60°	421.1	15.4
60°-70°	360.9	13.2
70°-80°	271.5	10.0
80°-90°	119.9	4.4
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°	658.2	24.1
0°-40°	1099.3	40.3
0°-60°	1974.7	72.4
0°-90°	2727.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2727.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	720	720	737	754	762	68
15°	687	737	814	861	879	194
25°	617	707	807	871	895	284
35°	524	627	729	794	818	328
45°	421	524	614	662	678	325
55°	315	420	501	528	534	282
65°	216	326	401	410	413	214
75°	127	232	295	294	292	134
85°	45	107	142	131	128	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3
2.5°	722.3	721.3	720.3	721.3	720.3	720.3	719.3	718.3	720.3	720.3	720.3
5°	720.3	719.3	718.3	719.3	719.3	721.3	722.3	727.3	733.4	737.4	743.4
7.5°	715.3	714.3	713.3	716.3	720.3	727.3	735.4	745.4	754.5	762.5	769.5
10°	708.2	707.2	707.2	714.3	724.3	737.4	748.4	760.5	772.5	783.6	793.6
12.5°	699.2	699.2	700.2	713.3	728.3	744.4	757.5	772.5	787.6	800.7	812.7
15°	687.1	686.1	691.2	709.2	728.3	746.4	763.5	780.6	798.7	813.7	826.8
17.5°	673.1	672.1	682.1	704.2	724.3	745.4	765.5	784.6	803.7	819.8	834.8
20°	656.0	656.0	670.1	696.2	718.3	741.4	762.5	782.6	803.7	820.8	836.8
22.5°	637.9	638.9	657.0	684.1	708.2	732.4	754.5	776.6	797.6	816.7	832.8
25°	616.8	618.8	639.9	668.1	694.2	719.3	742.4	765.5	787.6	806.7	823.8
27.5°	595.7	597.7	622.8	651.0	678.1	703.2	727.3	751.4	774.5	793.6	810.7
30°	571.6	576.6	601.8	630.9	659.0	684.1	709.2	733.4	755.5	775.5	793.6
32.5°	549.5	553.5	581.7	609.8	638.9	664.0	689.2	712.3	734.4	754.5	771.5
35°	524.4	530.4	558.6	586.7	614.8	639.9	665.0	688.1	710.2	729.3	746.4
37.5°	499.3	507.3	534.4	563.6	590.7	615.8	640.9	663.0	685.1	703.2	719.3
40°	474.2	481.2	509.3	537.5	565.6	589.7	613.8	634.9	656.0	674.1	689.2
42.5°	448.0	456.1	484.2	511.3	538.5	562.6	586.7	607.8	627.9	643.9	658.0
45°	420.9	431.0	458.1	485.2	512.3	536.5	559.6	579.7	597.7	613.8	626.9
47.5°	394.8	405.9	433.0	460.1	486.2	509.3	532.4	552.5	569.6	583.7	595.7
50°	367.7	380.7	406.9	433.0	460.1	483.2	505.3	523.4	541.5	555.5	565.6
52.5°	341.6	354.6	381.7	407.9	434.0	457.1	479.2	498.3	514.4	527.4	538.5
55°	315.4	329.5	356.6	382.8	408.9	432.0	454.1	472.2	488.2	501.3	510.3
57.5°	290.3	305.4	331.5	358.6	384.8	407.9	430.0	448.0	463.1	475.2	484.2
60°	264.2	281.3	307.4	333.5	360.6	384.8	405.9	423.9	439.0	450.1	458.1
62.5°	240.1	257.2	283.3	310.4	337.5	361.7	382.8	400.8	414.9	425.9	432.0
65°	216.0	234.1	260.2	287.3	314.4	338.5	359.6	377.7	390.8	400.8	406.9
67.5°	192.9	211.0	237.1	264.2	291.3	315.4	336.5	353.6	366.7	375.7	379.7
70°	169.8	187.9	214.0	241.1	267.2	292.3	313.4	329.5	342.6	349.6	352.6
72.5°	147.7	166.8	191.9	217.0	244.1	268.2	289.3	306.4	316.4	322.5	327.5
75°	126.6	144.7	168.8	193.9	219.0	244.1	264.2	279.3	289.3	295.4	297.4
77.5°	105.5	123.6	146.7	169.8	194.9	218.0	238.1	252.2	260.2	265.2	268.2
80°	85.4	101.5	122.6	144.7	167.8	188.9	206.9	220.0	227.0	229.0	229.0
82.5°	66.3	79.4	97.4	116.5	136.6	155.7	171.8	181.8	186.9	187.9	186.9
85°	45.2	54.2	68.3	83.4	98.5	115.5	129.6	136.6	139.6	141.6	139.6
87.5°	24.1	27.1	35.2	44.2	55.3	66.3	75.3	80.4	83.4	83.4	84.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	720.3	720.3	720.3	720.3	720.3	720.3	720.3	720.3
2.5°	720.3	720.3	721.3	720.3	720.3	721.3	720.3	720.3
5°	746.4	748.4	753.4	755.5	756.5	759.5	759.5	761.5
7.5°	774.5	779.6	784.6	788.6	791.6	795.6	796.6	798.7
10°	800.7	806.7	812.7	818.7	822.8	824.8	826.8	827.8
12.5°	821.8	829.8	837.8	843.9	848.9	851.9	854.9	855.9
15°	836.8	847.9	856.9	865.0	870.0	874.0	877.0	879.0
17.5°	846.9	858.9	869.0	878.0	884.0	888.1	892.1	894.1
20°	849.9	861.9	874.0	883.0	890.1	895.1	898.1	900.1
22.5°	846.9	859.9	872.0	882.0	889.1	895.1	898.1	901.1
25°	838.8	852.9	866.0	876.0	884.0	890.1	893.1	895.1
27.5°	826.8	841.9	854.9	865.0	873.0	879.0	883.0	885.0
30°	809.7	823.8	837.8	847.9	855.9	861.9	866.0	868.0
32.5°	788.6	802.7	815.7	825.8	834.8	839.8	843.9	845.9
35°	762.5	776.6	789.6	798.7	807.7	812.7	816.7	817.7
37.5°	734.4	748.4	760.5	768.5	777.6	781.6	786.6	787.6
40°	703.2	716.3	727.3	735.4	743.4	747.4	750.4	752.4
42.5°	671.1	683.1	694.2	701.2	707.2	711.3	715.3	715.3
45°	639.9	649.0	659.0	665.0	671.1	674.1	677.1	678.1
47.5°	607.8	616.8	624.9	628.9	634.9	636.9	638.9	639.9
50°	576.6	584.7	590.7	594.7	598.7	600.7	602.8	602.8
52.5°	546.5	553.5	558.6	560.6	564.6	565.6	566.6	567.6
55°	518.4	523.4	527.4	528.4	531.4	531.4	533.4	534.4
57.5°	491.2	494.3	497.3	497.3	499.3	499.3	501.3	502.3
60°	464.1	466.1	467.1	467.1	469.1	468.1	470.2	471.2
62.5°	437.0	438.0	438.0	438.0	439.0	439.0	440.0	441.0
65°	409.9	409.9	409.9	409.9	410.9	409.9	411.9	412.9
67.5°	382.8	381.7	381.7	380.7	382.8	381.7	383.8	384.8
70°	354.6	354.6	352.6	352.6	353.6	354.6	355.6	355.6
72.5°	326.5	324.5	324.5	323.5	324.5	325.5	327.5	326.5
75°	297.4	296.4	294.3	293.3	293.3	292.3	293.3	292.3
77.5°	263.2	260.2	256.2	255.2	253.2	252.2	253.2	254.2
80°	223.0	220.0	217.0	216.0	214.0	214.0	214.0	215.0
82.5°	180.8	178.8	175.8	175.8	173.8	173.8	173.8	172.8
85°	133.6	132.6	130.6	130.6	128.6	128.6	128.6	127.6
87.5°	78.4	78.4	76.3	77.4	74.3	74.3	74.3	75.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)