

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: P188608

Luminaire Tested: **24SR-LD2-39-C-UNV-L835-CD1-SO-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188608  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24785)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-39-C-UNV-L835-CD1-SO-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

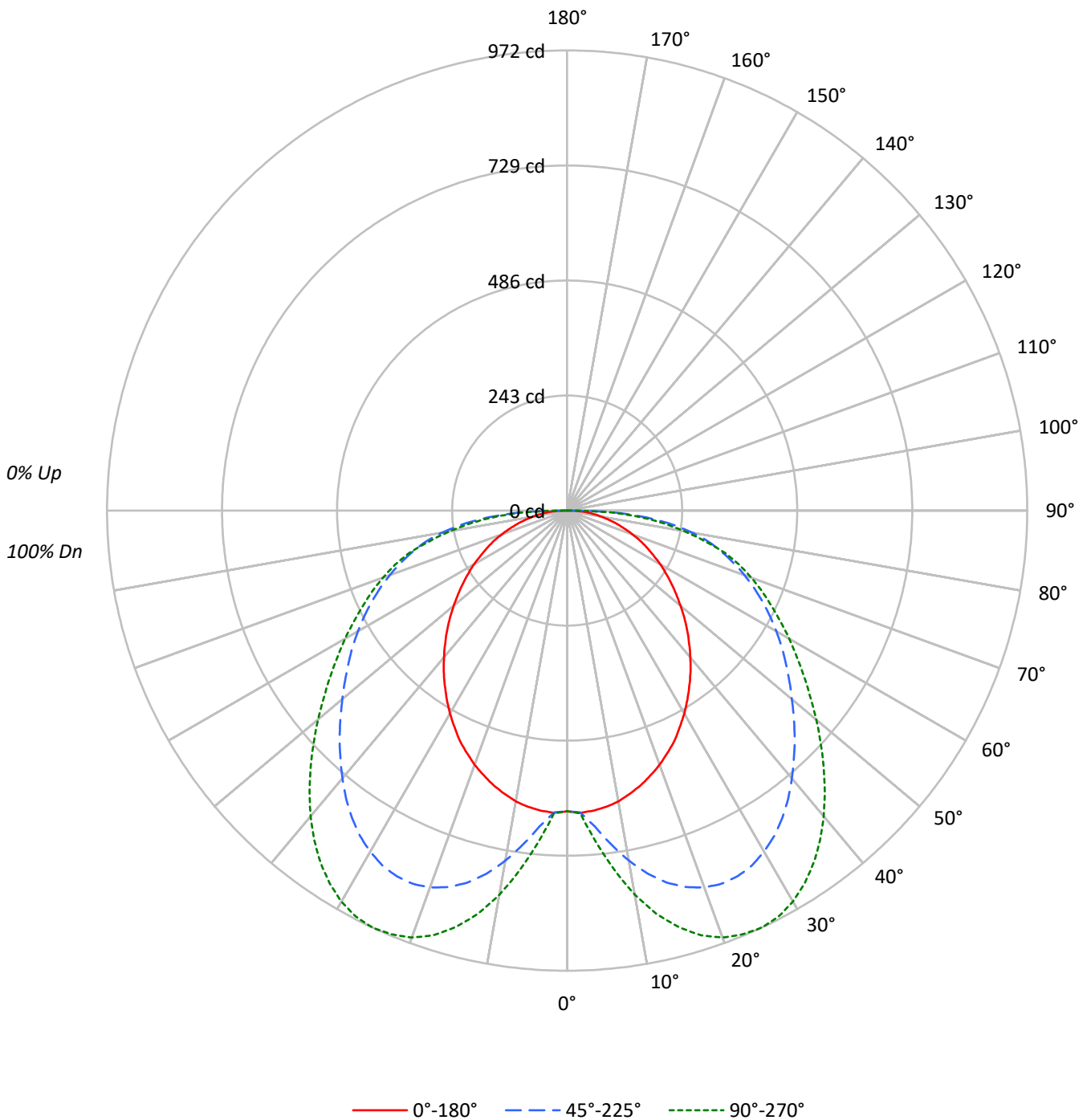
Lumens per Lamp: N/A  
Luminaire Lumens: 2935.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.85 / 1.72  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	101	96	91	104	99	94	90	94	90	87		90	87	84		87	84	82	79
2	96	87	79	72	93	85	77	71	81	75	70		78	73	68		74	70	66	64
3	87	75	66	59	84	74	65	58	70	63	57		68	61	56		65	60	55	53
4	79	66	56	49	77	65	56	49	62	54	48		60	53	47		57	52	47	44
5	72	59	49	42	70	57	48	42	55	47	41		53	46	41		51	45	40	38
6	67	53	43	36	65	52	43	36	50	42	36		48	41	35		46	40	35	33
7	62	47	38	32	60	47	38	32	45	37	31		43	36	31		42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28		40	33	28		39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25		37	30	25		35	29	24	23
10	50	36	28	23	49	36	28	22	35	27	22		34	27	22		33	27	22	20

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

	0°	45°	90°
0°	855	855	855
5°	859	904	950
10°	852	1026	1126
15°	837	1133	1269
20°	818	1213	1374
25°	797	1265	1443
30°	769	1292	1482
35°	740	1301	1491
40°	711	1297	1481
45°	683	1293	1458
50°	654	1298	1438
55°	631	1323	1433
60°	612	1373	1458
65°	594	1450	1515
70°	579	1568	1628
75°	565	1761	1793
80°	566	2083	1949
85°	627	2615	2365



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	2.2
10°-20°	221.9	7.6
20°-30°	371.6	12.7
30°-40°	465.3	15.9
40°-50°	488.1	16.6
50°-60°	461.2	15.7
60°-70°	403.7	13.8
70°-80°	311.8	10.6
80°-90°	145.5	5.0
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°	659.4	22.5
0°-40°	1124.6	38.3
0°-60°	2074.0	70.7
0°-90°	2935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2935.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	635	635	635	635	635	
5°	636	636	670	695	703	60
15°	601	685	814	887	911	169
25°	537	689	852	939	972	246
35°	450	630	792	878	908	282
45°	359	534	680	746	766	277
55°	269	443	564	601	611	241
65°	187	363	456	468	476	185
75°	109	272	339	342	345	115
85°	41	143	169	157	153	43
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°	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1
2.5°	639.1	638.1	637.1	635.1	634.1	634.1	634.1	634.1	635.1	638.1	640.2
5°	636.1	636.1	634.1	633.1	634.1	637.1	642.2	650.3	658.4	669.6	678.7
7.5°	631.0	630.0	629.0	630.0	639.1	652.3	665.5	680.7	694.9	711.2	724.4
10°	623.9	622.9	623.9	632.0	650.3	671.6	690.9	710.2	729.4	750.7	769.0
12.5°	612.8	612.8	616.8	635.1	660.5	686.8	712.2	736.5	760.9	785.2	806.5
15°	600.6	601.6	611.8	638.1	669.6	700.0	729.4	757.8	786.3	813.6	837.0
17.5°	586.4	588.4	605.7	638.1	673.6	709.1	742.6	774.1	804.5	833.9	858.3
20°	571.2	573.2	598.6	636.1	675.7	714.2	749.7	784.2	816.7	847.1	872.5
22.5°	553.9	557.0	589.4	630.0	673.6	715.2	751.8	787.3	820.7	853.2	878.6
25°	536.7	540.7	578.3	621.9	667.6	710.2	748.7	784.2	819.7	852.2	877.6
27.5°	515.4	522.5	565.1	609.7	658.4	701.0	739.6	777.1	812.6	845.1	870.5
30°	495.1	504.2	548.9	595.5	645.2	687.8	726.4	763.9	799.4	831.9	857.3
32.5°	472.8	483.9	530.6	579.3	628.0	669.6	709.1	746.7	782.2	814.7	839.0
35°	450.4	463.6	511.3	561.0	608.7	650.3	688.9	726.4	760.9	792.3	815.7
37.5°	428.1	442.3	490.0	540.7	586.4	627.0	665.5	702.0	737.6	767.0	790.3
40°	404.8	421.0	468.7	517.4	563.1	602.6	641.2	676.7	710.2	738.6	760.9
42.5°	381.5	399.7	447.4	495.1	538.7	577.3	615.8	650.3	681.8	709.1	730.5
45°	359.1	377.4	424.1	471.8	514.4	552.9	590.4	623.9	654.4	679.7	700.0
47.5°	335.8	356.1	402.8	449.4	490.0	528.6	565.1	596.5	626.0	649.3	668.6
50°	312.5	334.8	380.4	426.1	467.7	505.2	540.7	571.2	598.6	619.9	638.1
52.5°	290.2	313.5	360.2	404.8	445.4	482.9	517.4	546.8	572.2	591.5	607.7
55°	268.8	293.2	339.9	383.5	425.1	461.6	494.1	522.5	545.8	564.1	578.3
57.5°	247.5	273.9	320.6	365.2	404.8	441.3	472.8	499.1	520.4	537.7	549.9
60°	227.3	254.6	302.3	346.0	385.5	421.0	451.5	475.8	496.1	510.3	519.4
62.5°	205.9	235.4	283.1	327.7	367.3	400.7	430.2	453.5	470.7	482.9	491.0
65°	186.7	216.1	264.8	309.4	347.0	379.4	406.8	429.1	445.4	455.5	460.6
67.5°	167.4	197.8	246.5	290.2	326.7	358.1	383.5	404.8	419.0	427.1	431.2
70°	147.1	179.6	227.3	269.9	305.4	334.8	360.2	378.4	391.6	398.7	400.7
72.5°	126.8	160.3	208.0	249.6	283.1	311.5	334.8	352.0	364.2	369.3	370.3
75°	108.6	140.0	186.7	226.2	258.7	285.1	308.4	324.6	333.8	338.8	339.9
77.5°	90.3	120.7	165.4	202.9	231.3	256.7	279.0	294.2	303.3	307.4	307.4
80°	73.0	101.5	142.0	175.5	202.9	226.2	246.5	261.7	269.9	268.8	264.8
82.5°	56.8	83.2	117.7	147.1	171.5	192.8	213.0	222.2	225.2	222.2	219.1
85°	40.6	61.9	89.3	113.6	134.9	151.2	164.4	171.5	172.5	169.4	166.4
87.5°	23.3	34.5	50.7	69.0	80.1	90.3	101.5	105.5	105.5	107.5	101.5
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°	635.1	635.1	635.1	635.1	635.1	635.1	635.1	635.1
2.5°	639.1	640.2	640.2	642.2	643.2	643.2	642.2	640.2
5°	681.8	687.8	691.9	698.0	701.0	704.1	705.1	703.1
7.5°	731.5	740.6	748.7	757.8	761.9	764.9	769.0	766.0
10°	779.2	791.3	801.5	811.6	817.7	821.8	824.8	823.8
12.5°	819.7	833.9	845.1	855.2	863.4	869.4	872.5	872.5
15°	851.2	867.4	881.6	892.8	900.9	907.0	911.0	911.0
17.5°	875.5	891.8	907.0	918.1	926.3	934.4	938.4	940.5
20°	889.7	907.0	922.2	934.4	943.5	952.6	956.7	959.7
22.5°	896.8	914.1	930.3	943.5	953.6	961.8	966.8	968.9
25°	896.8	915.1	932.3	945.5	955.7	964.8	969.9	971.9
27.5°	890.7	910.0	927.3	939.4	950.6	959.7	964.8	966.8
30°	878.6	897.8	915.1	927.3	938.4	946.5	951.6	953.6
32.5°	859.3	879.6	895.8	908.0	919.2	927.3	932.3	933.4
35°	837.0	856.3	871.5	883.6	894.8	901.9	906.0	908.0
37.5°	809.6	827.8	843.1	854.2	864.4	872.5	876.5	877.6
40°	780.2	797.4	810.6	820.7	830.9	838.0	842.1	843.1
42.5°	748.7	764.9	777.1	786.3	795.4	801.5	804.5	805.5
45°	716.3	730.5	741.6	749.7	757.8	762.9	766.0	766.0
47.5°	683.8	697.0	706.1	712.2	719.3	724.4	727.4	726.4
50°	651.3	662.5	669.6	675.7	681.8	684.8	687.8	686.8
52.5°	618.9	629.0	633.1	638.1	643.2	646.2	649.3	647.3
55°	587.4	594.5	598.6	602.6	606.7	609.7	611.8	610.7
57.5°	557.0	562.0	565.1	569.1	572.2	574.2	576.2	575.2
60°	524.5	528.6	530.6	534.7	537.7	539.7	541.8	541.8
62.5°	494.1	497.1	498.1	502.2	504.2	506.2	509.3	508.3
65°	461.6	464.6	466.7	469.7	471.8	473.8	476.8	475.8
67.5°	431.2	434.2	435.2	438.3	441.3	444.4	445.4	445.4
70°	400.7	402.8	403.8	407.8	408.9	411.9	413.9	413.9
72.5°	370.3	371.3	373.3	376.4	378.4	380.4	382.5	381.5
75°	337.8	339.9	340.9	342.9	342.9	344.9	344.9	344.9
77.5°	304.4	301.3	300.3	299.3	298.3	298.3	298.3	297.3
80°	258.7	255.7	254.6	252.6	252.6	252.6	252.6	251.6
82.5°	214.1	210.0	208.0	207.0	205.9	205.9	205.9	204.9
85°	162.3	158.3	157.3	156.2	156.2	155.2	154.2	153.2
87.5°	100.4	97.4	96.4	94.4	95.4	93.3	93.3	93.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)