

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: P188605

Luminaire Tested: **24SR-LD2-34-C-UNV-L850-CD1-SO-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188605  
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-LD2-34-C-UNV-L850-CD1-SO-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

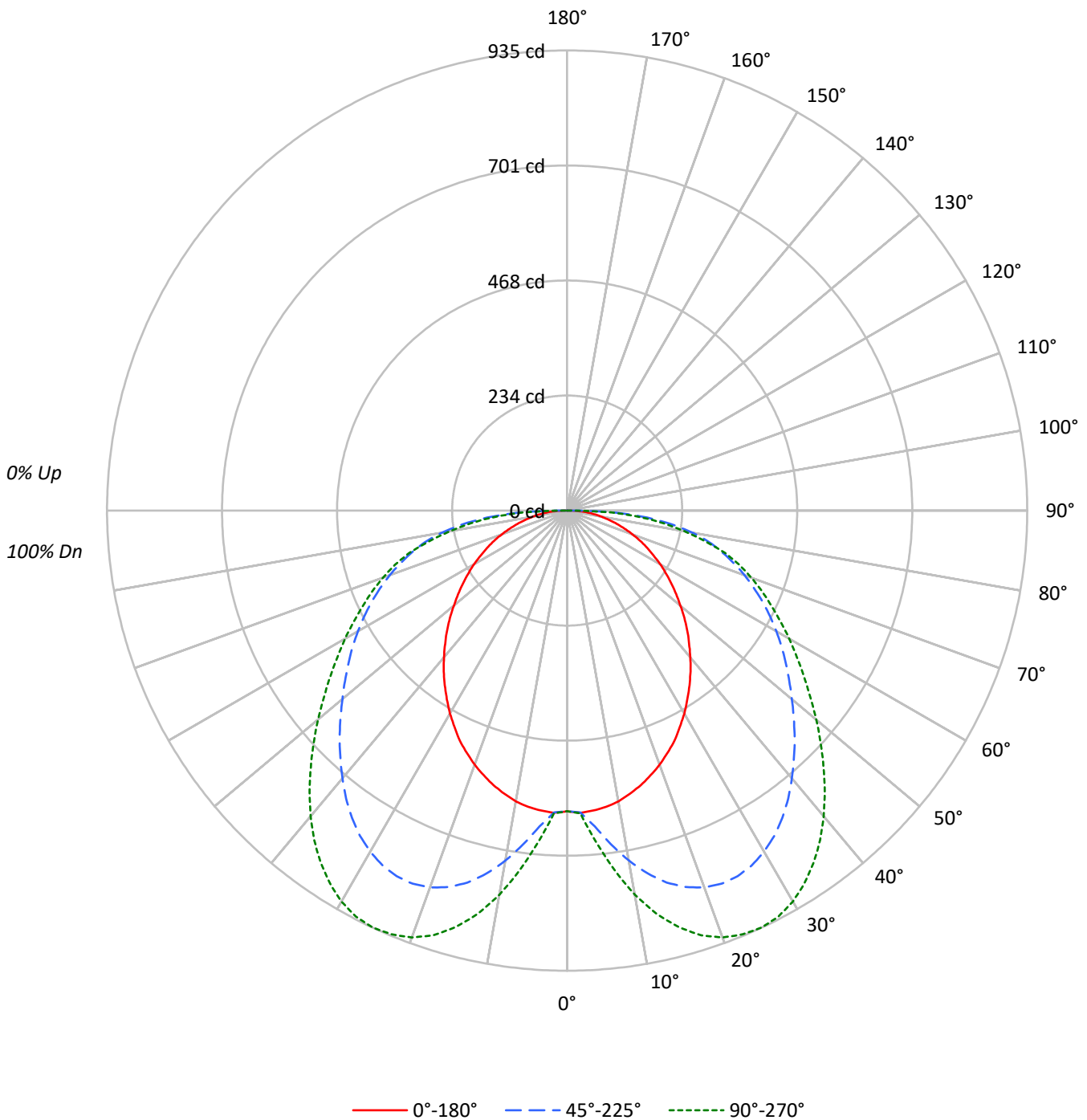
Lumens per Lamp: N/A  
Luminaire Lumens: 2823.0 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.85 / 1.72  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.2  
Input Voltage (V): NR  
Input Current (A<sub>in</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			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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	
1	107	101	96	91	104	99	94	90	94	90	87	90	87	84	87	84	82	79	79	
2	96	87	79	72	93	85	77	71	81	75	70	78	73	68	74	70	66	64	64	
3	87	75	66	59	84	74	65	58	70	63	57	68	61	56	65	60	55	53	53	
4	79	66	56	49	77	65	56	49	62	54	48	60	53	47	57	52	47	44	44	
5	72	59	49	42	70	57	48	42	55	47	41	53	46	41	51	45	40	38	38	
6	67	53	43	36	65	52	43	36	50	42	36	48	41	35	46	40	35	33	33	
7	62	47	38	32	60	47	38	32	45	37	31	43	36	31	42	36	31	29	29	
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25	25	
9	53	39	31	25	52	39	31	25	38	30	25	37	30	25	35	29	24	23	23	
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20	20	

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

	0°	45°	90°
0°	822	822	822
5°	826	870	913
10°	820	987	1083
15°	805	1090	1221
20°	787	1167	1322
25°	766	1217	1388
30°	740	1243	1425
35°	712	1252	1434
40°	684	1248	1424
45°	657	1244	1402
50°	629	1248	1383
55°	607	1273	1378
60°	588	1321	1402
65°	571	1395	1457
70°	557	1509	1566
75°	543	1694	1725
80°	545	2004	1875
85°	602	2516	2274



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	2.2
10°-20°	213.4	7.6
20°-30°	357.4	12.7
30°-40°	447.5	15.9
40°-50°	469.5	16.6
50°-60°	443.6	15.7
60°-70°	388.3	13.8
70°-80°	299.9	10.6
80°-90°	139.9	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°	634.2	22.5
0°-40°	1081.7	38.3
0°-60°	1994.8	70.7
0°-90°	2823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2823.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	611	611	611	611	611	
5°	612	611	644	668	676	58
15°	578	659	783	853	876	163
25°	516	663	820	903	935	237
35°	433	606	762	844	873	271
45°	345	513	654	717	737	266
55°	259	426	542	578	587	232
65°	180	349	438	450	458	178
75°	104	262	326	329	332	111
85°	39	138	163	151	147	41
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°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	614.8	613.8	612.8	610.9	609.9	609.9	609.9	609.9	610.9	613.8	615.7
5°	611.8	611.8	609.9	608.9	609.9	612.8	617.7	625.5	633.3	644.0	652.8
7.5°	607.0	606.0	605.0	606.0	614.8	627.4	640.1	654.8	668.4	684.0	696.7
10°	600.1	599.1	600.1	607.9	625.5	646.0	664.5	683.1	701.6	722.1	739.7
12.5°	589.4	589.4	593.3	610.9	635.2	660.6	685.0	708.4	731.9	755.3	775.8
15°	577.7	578.7	588.4	613.8	644.0	673.3	701.6	728.9	756.2	782.6	805.0
17.5°	564.0	566.0	582.6	613.8	647.9	682.1	714.3	744.5	773.8	802.1	825.5
20°	549.4	551.3	575.7	611.8	649.9	687.0	721.1	754.3	785.5	814.8	839.2
22.5°	532.8	535.7	566.9	606.0	647.9	687.9	723.1	757.2	789.4	820.7	845.0
25°	516.2	520.1	556.2	598.2	642.1	683.1	720.1	754.3	788.5	819.7	844.1
27.5°	495.7	502.5	543.5	586.5	633.3	674.3	711.4	747.5	781.6	812.8	837.2
30°	476.2	485.0	527.9	572.8	620.6	661.6	698.7	734.8	768.9	800.2	824.6
32.5°	454.7	465.5	510.3	557.2	604.0	644.0	682.1	718.2	752.3	783.6	807.0
35°	433.3	445.9	491.8	539.6	585.5	625.5	662.6	698.7	731.9	762.1	784.5
37.5°	411.8	425.5	471.3	520.1	564.0	603.0	640.1	675.3	709.4	737.7	760.2
40°	389.3	405.0	450.8	497.7	541.6	579.6	616.7	650.9	683.1	710.4	731.9
42.5°	366.9	384.5	430.3	476.2	518.2	555.2	592.3	625.5	655.7	682.1	702.6
45°	345.4	363.0	407.9	453.7	494.7	531.8	567.9	600.1	629.4	653.8	673.3
47.5°	323.0	342.5	387.4	432.3	471.3	508.4	543.5	573.8	602.1	624.5	643.1
50°	300.5	322.0	365.9	409.8	449.8	486.0	520.1	549.4	575.7	596.2	613.8
52.5°	279.1	301.5	346.4	389.3	428.4	464.5	497.7	526.0	550.4	568.9	584.5
55°	258.6	282.0	326.9	368.9	408.9	444.0	475.2	502.5	525.0	542.5	556.2
57.5°	238.1	263.5	308.4	351.3	389.3	424.5	454.7	480.1	500.6	517.2	528.9
60°	218.6	244.9	290.8	332.7	370.8	405.0	434.2	457.7	477.2	490.8	499.6
62.5°	198.1	226.4	272.2	315.2	353.2	385.4	413.7	436.2	452.8	464.5	472.3
65°	179.5	207.8	254.7	297.6	333.7	365.0	391.3	412.8	428.4	438.1	443.0
67.5°	161.0	190.3	237.1	279.1	314.2	344.5	368.9	389.3	403.0	410.8	414.7
70°	141.5	172.7	218.6	259.6	293.7	322.0	346.4	364.0	376.7	383.5	385.4
72.5°	122.0	154.2	200.0	240.0	272.2	299.6	322.0	338.6	350.3	355.2	356.2
75°	104.4	134.7	179.5	217.6	248.8	274.2	296.6	312.3	321.0	325.9	326.9
77.5°	86.8	116.1	159.1	195.2	222.5	246.9	268.3	283.0	291.8	295.7	295.7
80°	70.3	97.6	136.6	168.8	195.2	217.6	237.1	251.8	259.6	258.6	254.7
82.5°	54.6	80.0	113.2	141.5	164.9	185.4	204.9	213.7	216.6	213.7	210.8
85°	39.0	59.5	85.9	109.3	129.8	145.4	158.1	164.9	165.9	163.0	160.0
87.5°	22.4	33.2	48.8	66.4	77.1	86.8	97.6	101.5	101.5	103.4	97.6
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°	610.9	610.9	610.9	610.9	610.9	610.9	610.9	610.9
2.5°	614.8	615.7	615.7	617.7	618.7	618.7	617.7	615.7
5°	655.7	661.6	665.5	671.4	674.3	677.2	678.2	676.2
7.5°	703.6	712.3	720.1	728.9	732.8	735.8	739.7	736.7
10°	749.4	761.1	770.9	780.6	786.5	790.4	793.3	792.4
12.5°	788.5	802.1	812.8	822.6	830.4	836.3	839.2	839.2
15°	818.7	834.3	848.0	858.7	866.5	872.4	876.3	876.3
17.5°	842.1	857.7	872.4	883.1	890.9	898.7	902.6	904.6
20°	855.8	872.4	887.0	898.7	907.5	916.3	920.2	923.1
22.5°	862.6	879.2	894.8	907.5	917.3	925.1	929.9	931.9
25°	862.6	880.2	896.8	909.4	919.2	928.0	932.9	934.8
27.5°	856.8	875.3	891.9	903.6	914.3	923.1	928.0	929.9
30°	845.0	863.6	880.2	891.9	902.6	910.4	915.3	917.3
32.5°	826.5	846.0	861.6	873.3	884.1	891.9	896.8	897.7
35°	805.0	823.6	838.2	849.9	860.7	867.5	871.4	873.3
37.5°	778.7	796.3	810.9	821.6	831.4	839.2	843.1	844.1
40°	750.4	767.0	779.7	789.4	799.2	806.0	809.9	810.9
42.5°	720.1	735.8	747.5	756.2	765.0	770.9	773.8	774.8
45°	688.9	702.6	713.3	721.1	728.9	733.8	736.7	736.7
47.5°	657.7	670.4	679.2	685.0	691.8	696.7	699.7	698.7
50°	626.5	637.2	644.0	649.9	655.7	658.7	661.6	660.6
52.5°	595.2	605.0	608.9	613.8	618.7	621.6	624.5	622.6
55°	565.0	571.8	575.7	579.6	583.5	586.5	588.4	587.4
57.5°	535.7	540.6	543.5	547.4	550.4	552.3	554.3	553.3
60°	504.5	508.4	510.3	514.2	517.2	519.1	521.1	521.1
62.5°	475.2	478.1	479.1	483.0	485.0	486.9	489.9	488.9
65°	444.0	446.9	448.9	451.8	453.7	455.7	458.6	457.7
67.5°	414.7	417.6	418.6	421.5	424.5	427.4	428.4	428.4
70°	385.4	387.4	388.4	392.3	393.2	396.2	398.1	398.1
72.5°	356.2	357.1	359.1	362.0	364.0	365.9	367.9	366.9
75°	324.9	326.9	327.9	329.8	329.8	331.8	331.8	331.8
77.5°	292.7	289.8	288.8	287.9	286.9	286.9	286.9	285.9
80°	248.8	245.9	244.9	243.0	243.0	243.0	243.0	242.0
82.5°	205.9	202.0	200.0	199.1	198.1	198.1	198.1	197.1
85°	156.1	152.2	151.2	150.3	150.3	149.3	148.3	147.3
87.5°	96.6	93.7	92.7	90.7	91.7	89.8	89.8	89.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)