

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: P188598

Luminaire Tested: **24SR-LD2-29-C-UNV-L835-CD1-SO-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188598  
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-LD2-29-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**

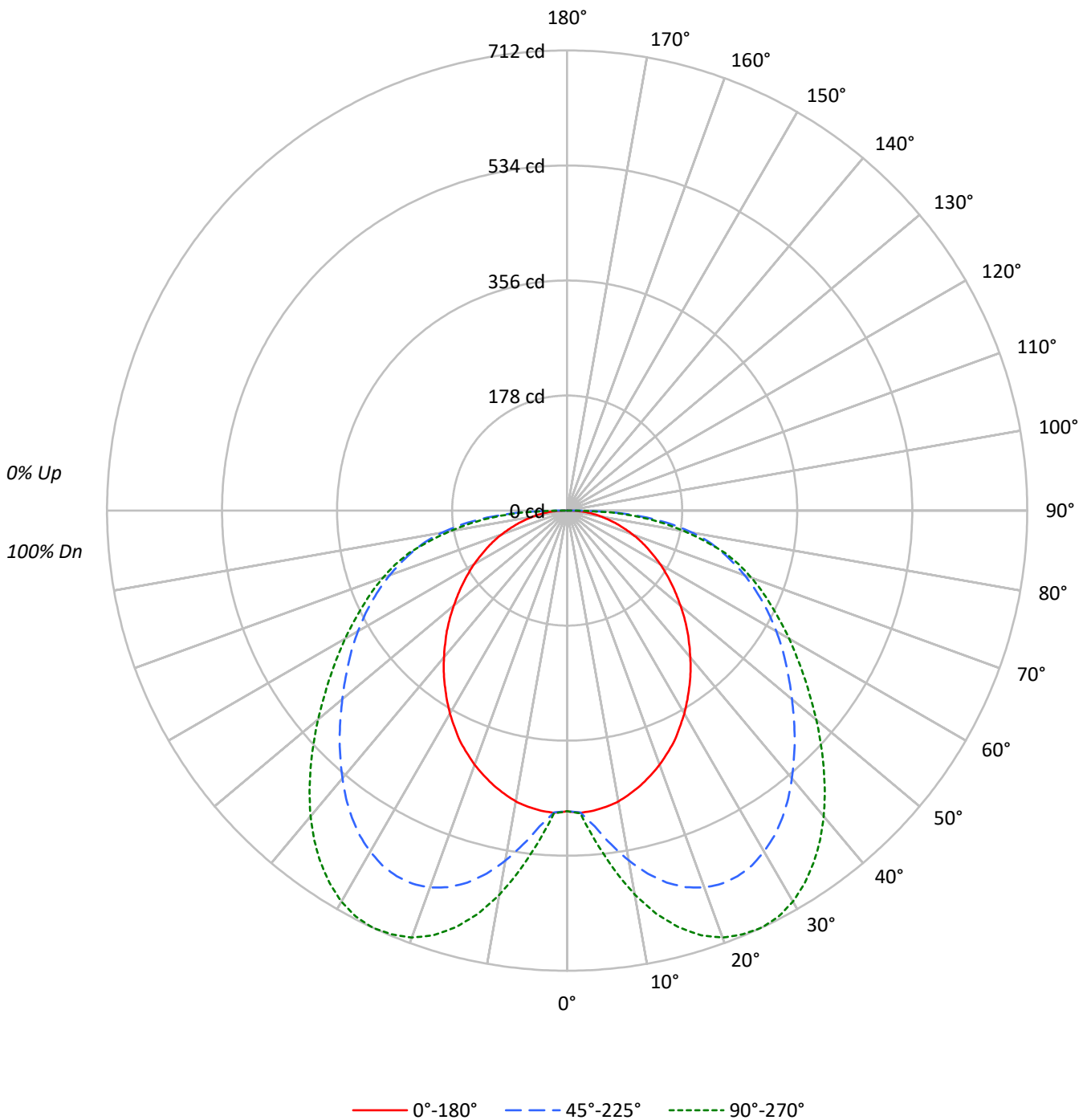
Lumens per Lamp: N/A  
Luminaire Lumens: 2150.0 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.85 / 1.72  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 22.6  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	626	626	626
5°	629	662	696
10°	625	751	825
15°	613	830	930
20°	599	889	1007
25°	584	927	1057
30°	564	947	1085
35°	542	953	1092
40°	521	950	1085
45°	501	947	1068
50°	479	951	1053
55°	462	969	1050
60°	448	1006	1068
65°	435	1062	1110
70°	424	1149	1193
75°	413	1290	1314
80°	415	1526	1428
85°	459	1916	1732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.3	2.2
10°-20°	162.6	7.6
20°-30°	272.2	12.7
30°-40°	340.8	15.9
40°-50°	357.6	16.6
50°-60°	337.9	15.7
60°-70°	295.7	13.8
70°-80°	228.4	10.6
80°-90°	106.6	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°	483.0	22.5
0°-40°	823.8	38.3
0°-60°	1519.3	70.7
0°-90°	2150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	465	465	465	465	465	
5°	466	466	490	509	515	44
15°	440	502	596	650	667	124
25°	393	505	624	688	712	181
35°	330	461	580	643	665	206
45°	263	391	498	546	561	203
55°	197	325	413	440	447	176
65°	137	266	334	343	348	135
75°	80	199	248	250	253	84
85°	30	105	124	115	112	31
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°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2
2.5°	468.2	467.5	466.7	465.2	464.5	464.5	464.5	464.5	465.2	467.5	468.9
5°	466.0	466.0	464.5	463.7	464.5	466.7	470.4	476.4	482.3	490.5	497.2
7.5°	462.3	461.5	460.8	461.5	468.2	477.9	487.5	498.7	509.1	521.0	530.6
10°	457.1	456.3	457.1	463.0	476.4	492.0	506.1	520.2	534.3	549.9	563.3
12.5°	448.9	448.9	451.8	465.2	483.8	503.1	521.7	539.5	557.4	575.2	590.8
15°	440.0	440.7	448.1	467.5	490.5	512.8	534.3	555.2	576.0	596.0	613.1
17.5°	429.6	431.0	443.7	467.5	493.5	519.5	544.0	567.0	589.3	610.9	628.7
20°	418.4	419.9	438.5	466.0	495.0	523.2	549.2	574.5	598.3	620.6	639.1
22.5°	405.8	408.0	431.8	461.5	493.5	523.9	550.7	576.7	601.2	625.0	643.6
25°	393.1	396.1	423.6	455.6	489.0	520.2	548.5	574.5	600.5	624.3	642.8
27.5°	377.5	382.7	413.9	446.6	482.3	513.5	541.8	569.3	595.3	619.1	637.6
30°	362.7	369.4	402.1	436.2	472.7	503.9	532.1	559.6	585.6	609.4	628.0
32.5°	346.3	354.5	388.7	424.4	460.0	490.5	519.5	547.0	573.0	596.8	614.6
35°	330.0	339.6	374.6	411.0	445.9	476.4	504.6	532.1	557.4	580.4	597.5
37.5°	313.6	324.0	359.0	396.1	429.6	459.3	487.5	514.3	540.3	561.8	578.9
40°	296.5	308.4	343.3	379.0	412.5	441.4	469.7	495.7	520.2	541.0	557.4
42.5°	279.4	292.8	327.7	362.7	394.6	422.9	451.1	476.4	499.4	519.5	535.1
45°	263.1	276.5	310.6	345.6	376.8	405.0	432.5	457.1	479.3	497.9	512.8
47.5°	246.0	260.9	295.0	329.2	359.0	387.2	413.9	437.0	458.5	475.6	489.8
50°	228.9	245.2	278.7	312.1	342.6	370.1	396.1	418.4	438.5	454.1	467.5
52.5°	212.5	229.6	263.8	296.5	326.3	353.8	379.0	400.6	419.2	433.3	445.2
55°	196.9	214.8	249.0	280.9	311.4	338.1	361.9	382.7	399.8	413.2	423.6
57.5°	181.3	200.7	234.8	267.5	296.5	323.3	346.3	365.6	381.2	393.9	402.8
60°	166.5	186.5	221.5	253.4	282.4	308.4	330.7	348.5	363.4	373.8	380.5
62.5°	150.9	172.4	207.3	240.0	269.0	293.6	315.1	332.2	344.8	353.8	359.7
65°	136.7	158.3	194.0	226.7	254.2	277.9	298.0	314.4	326.3	333.7	337.4
67.5°	122.6	144.9	180.6	212.5	239.3	262.3	280.9	296.5	306.9	312.9	315.8
70°	107.8	131.5	166.5	197.7	223.7	245.2	263.8	277.2	286.9	292.1	293.6
72.5°	92.9	117.4	152.4	182.8	207.3	228.2	245.2	257.9	266.8	270.5	271.3
75°	79.5	102.6	136.7	165.7	189.5	208.8	225.9	237.8	244.5	248.2	249.0
77.5°	66.1	88.4	121.1	148.6	169.4	188.0	204.4	215.5	222.2	225.2	225.2
80°	53.5	74.3	104.0	128.6	148.6	165.7	180.6	191.7	197.7	196.9	194.0
82.5°	41.6	60.9	86.2	107.8	125.6	141.2	156.1	162.8	165.0	162.8	160.5
85°	29.7	45.3	65.4	83.2	98.8	110.7	120.4	125.6	126.3	124.1	121.9
87.5°	17.1	25.3	37.2	50.5	58.7	66.1	74.3	77.3	77.3	78.8	74.3
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°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2
2.5°	468.2	468.9	468.9	470.4	471.2	471.2	470.4	468.9
5°	499.4	503.9	506.8	511.3	513.5	515.8	516.5	515.0
7.5°	535.8	542.5	548.5	555.2	558.1	560.4	563.3	561.1
10°	570.8	579.7	587.1	594.5	599.0	602.0	604.2	603.5
12.5°	600.5	610.9	619.1	626.5	632.4	636.9	639.1	639.1
15°	623.5	635.4	645.8	654.0	659.9	664.4	667.4	667.4
17.5°	641.4	653.2	664.4	672.6	678.5	684.5	687.4	688.9
20°	651.8	664.4	675.5	684.5	691.2	697.8	700.8	703.0
22.5°	657.0	669.6	681.5	691.2	698.6	704.5	708.2	709.7
25°	657.0	670.3	683.0	692.6	700.1	706.8	710.5	712.0
27.5°	652.5	666.6	679.3	688.2	696.4	703.0	706.8	708.2
30°	643.6	657.7	670.3	679.3	687.4	693.4	697.1	698.6
32.5°	629.5	644.3	656.2	665.1	673.3	679.3	683.0	683.7
35°	613.1	627.2	638.4	647.3	655.5	660.7	663.7	665.1
37.5°	593.1	606.4	617.6	625.8	633.2	639.1	642.1	642.8
40°	571.5	584.1	593.8	601.2	608.7	613.9	616.8	617.6
42.5°	548.5	560.4	569.3	576.0	582.6	587.1	589.3	590.1
45°	524.7	535.1	543.3	549.2	555.2	558.9	561.1	561.1
47.5°	500.9	510.6	517.2	521.7	526.9	530.6	532.9	532.1
50°	477.1	485.3	490.5	495.0	499.4	501.6	503.9	503.1
52.5°	453.3	460.8	463.7	467.5	471.2	473.4	475.6	474.1
55°	430.3	435.5	438.5	441.4	444.4	446.6	448.1	447.4
57.5°	408.0	411.7	413.9	416.9	419.2	420.6	422.1	421.4
60°	384.2	387.2	388.7	391.7	393.9	395.4	396.9	396.9
62.5°	361.9	364.2	364.9	367.9	369.4	370.8	373.1	372.3
65°	338.1	340.4	341.9	344.1	345.6	347.1	349.3	348.5
67.5°	315.8	318.1	318.8	321.1	323.3	325.5	326.3	326.3
70°	293.6	295.0	295.8	298.8	299.5	301.7	303.2	303.2
72.5°	271.3	272.0	273.5	275.7	277.2	278.7	280.2	279.4
75°	247.5	249.0	249.7	251.2	251.2	252.7	252.7	252.7
77.5°	223.0	220.7	220.0	219.2	218.5	218.5	218.5	217.7
80°	189.5	187.3	186.5	185.1	185.1	185.1	185.1	184.3
82.5°	156.8	153.8	152.4	151.6	150.9	150.9	150.9	150.1
85°	118.9	115.9	115.2	114.4	114.4	113.7	113.0	112.2
87.5°	73.6	71.3	70.6	69.1	69.9	68.4	68.4	68.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)