

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: P188367

Luminaire Tested: **22SR-LD2-29-C-UNV-L850-CD1-SO-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188367  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24795)  
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-L850-CD1-SO-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

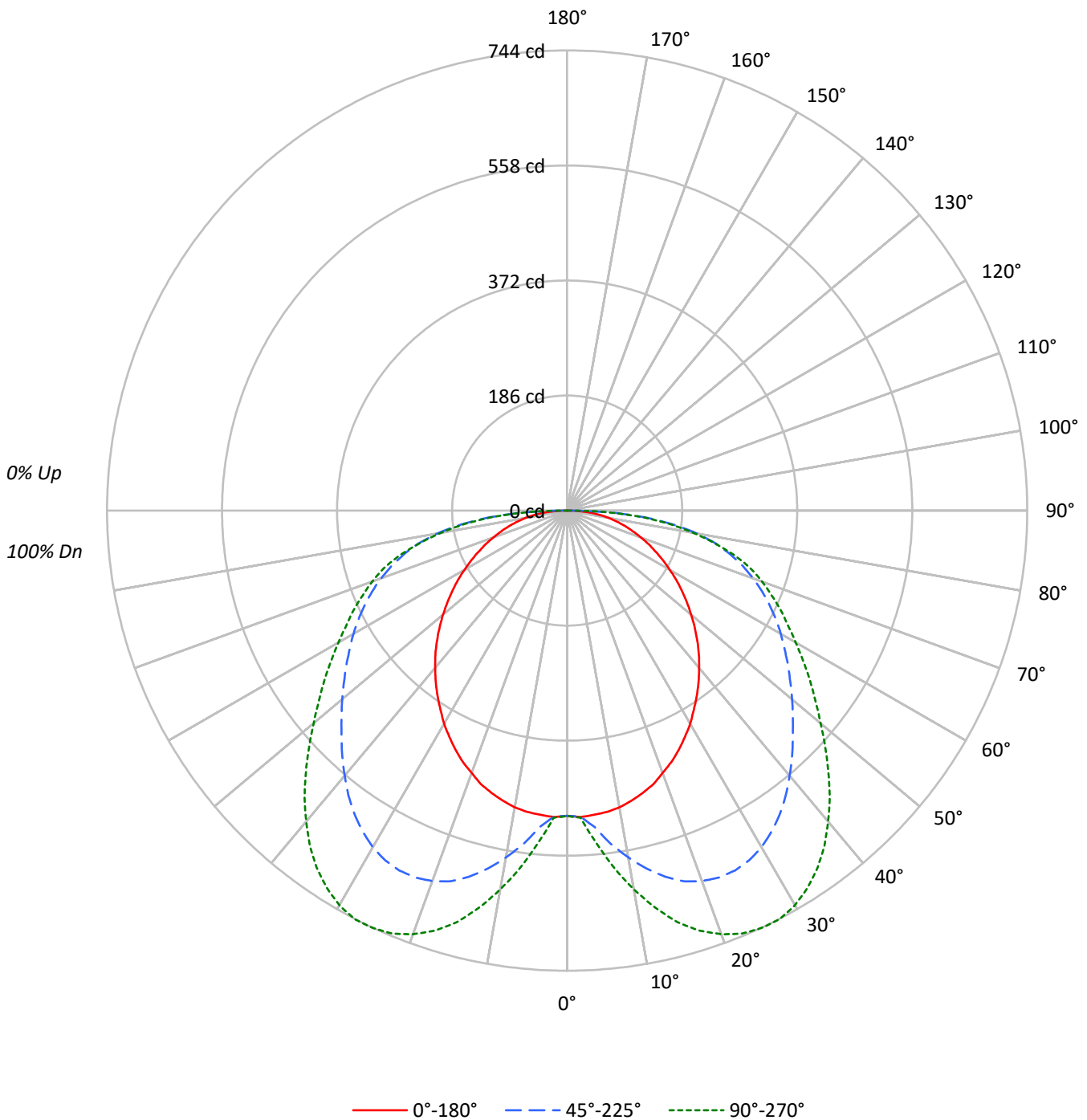
Lumens per Lamp: N/A  
Luminaire Lumens: 2274.0 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.85 / 1.71  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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	86	79	72	93	85	77	71	81	75	70	77	72	68	74	70	66	64
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55	53
4	79	66	56	49	77	64	56	49	62	54	48	59	53	47	57	51	46	44
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38
6	67	52	43	36	65	51	42	36	49	41	35	48	41	35	46	40	35	32
7	62	47	38	31	60	46	38	31	45	37	31	43	36	31	42	35	31	28
8	57	43	34	28	56	42	34	28	41	33	27	40	32	27	38	32	27	25
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24	22
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20

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

	0°	45°	90°
0°	1447	1447	1447
5°	1452	1511	1587
10°	1449	1694	1850
15°	1434	1859	2089
20°	1408	1988	2273
25°	1380	2076	2407
30°	1346	2127	2493
35°	1308	2145	2524
40°	1270	2140	2511
45°	1233	2138	2475
50°	1194	2164	2439
55°	1156	2226	2448
60°	1123	2338	2502
65°	1098	2504	2643
70°	1089	2741	2874
75°	1098	3092	3180
80°	1147	3592	3498
85°	1237	4233	4085



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.6	2.2
10°-20°	169.1	7.4
20°-30°	284.3	12.5
30°-40°	358.3	15.8
40°-50°	377.8	16.6
50°-60°	359.9	15.8
60°-70°	318.5	14.0
70°-80°	247.4	10.9
80°-90°	108.2	4.8
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°	504.0	22.2
0°-40°	862.2	37.9
0°-60°	1599.9	70.4
0°-90°	2274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	494	495	514	533	539	47
15°	473	528	613	669	689	133
25°	427	526	642	717	744	196
35°	366	481	600	678	706	229
45°	298	411	516	577	597	230
55°	226	341	436	472	479	203
65°	158	274	361	376	381	157
75°	97	201	273	279	281	103
85°	37	91	126	122	122	39
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°	493.7	493.7	493.7	493.7	493.7	493.7	493.7	493.7	493.7	493.7	493.7
2.5°	496.0	496.0	494.9	494.9	494.9	494.9	493.7	493.7	494.9	494.9	494.9
5°	493.7	493.7	493.7	493.7	493.7	496.0	498.2	503.8	508.2	513.8	519.4
7.5°	491.5	490.4	490.4	492.6	497.1	504.9	513.8	525.0	535.0	543.9	551.7
10°	487.1	487.1	487.1	493.7	504.9	519.4	532.8	545.0	557.3	569.5	581.8
12.5°	480.4	480.4	482.6	496.0	512.7	530.5	546.1	562.9	579.6	592.9	607.4
15°	472.6	472.6	478.1	497.1	518.3	538.3	558.4	577.3	596.3	613.0	628.6
17.5°	463.7	462.5	473.7	497.1	520.5	543.9	566.2	588.5	609.7	628.6	645.3
20°	451.4	452.5	468.1	494.9	520.5	547.2	570.7	594.1	617.5	637.5	655.4
22.5°	440.2	442.5	461.4	490.4	518.3	546.1	571.8	596.3	620.8	642.0	660.9
25°	426.9	429.1	451.4	482.6	511.6	540.6	567.3	594.1	618.6	642.0	662.0
27.5°	412.4	415.7	441.4	472.6	503.8	532.8	560.6	587.4	614.1	637.5	657.6
30°	397.9	402.4	430.2	462.5	492.6	522.7	551.7	578.5	605.2	628.6	649.8
32.5°	381.2	386.8	416.8	449.2	480.4	509.4	538.3	566.2	591.8	615.2	636.4
35°	365.6	372.3	402.4	434.7	465.9	496.0	523.8	551.7	576.2	599.6	620.8
37.5°	348.9	355.5	386.8	419.1	449.2	479.3	507.1	533.9	558.4	580.7	600.7
40°	332.1	339.9	370.0	402.4	431.3	461.4	488.2	514.9	538.3	559.5	579.6
42.5°	315.4	324.3	354.4	385.6	414.6	443.6	470.3	496.0	518.3	538.3	556.2
45°	297.6	307.6	336.6	367.8	396.8	424.6	451.4	475.9	497.1	516.0	533.9
47.5°	279.8	290.9	319.9	351.1	378.9	406.8	431.3	455.9	475.9	494.9	510.5
50°	261.9	274.2	303.2	333.3	361.1	389.0	413.5	436.9	455.9	474.8	489.3
52.5°	244.1	258.6	287.6	316.5	344.4	371.1	395.7	418.0	436.9	454.7	468.1
55°	226.3	241.9	270.8	299.8	327.7	354.4	377.8	401.2	419.1	435.8	448.1
57.5°	209.5	225.1	254.1	283.1	311.0	337.7	361.1	383.4	401.2	416.8	429.1
60°	191.7	209.5	237.4	266.4	294.2	321.0	344.4	366.7	384.5	399.0	409.0
62.5°	175.0	192.8	221.8	249.7	277.5	304.3	327.7	350.0	366.7	380.1	389.0
65°	158.3	177.2	205.1	232.9	260.8	287.6	311.0	332.1	348.9	361.1	368.9
67.5°	142.7	161.6	189.5	216.2	244.1	269.7	294.2	314.3	328.8	341.1	346.6
70°	127.1	146.0	172.8	199.5	226.3	251.9	275.3	295.4	309.8	319.9	325.4
72.5°	111.5	130.4	156.0	181.7	208.4	232.9	256.3	275.3	288.7	297.6	302.0
75°	97.0	114.8	139.3	163.8	188.4	212.9	235.2	253.0	265.3	273.1	277.5
77.5°	82.5	100.3	122.6	144.9	168.3	191.7	212.9	228.5	240.7	246.3	250.8
80°	68.0	83.6	103.7	123.7	146.0	166.1	186.1	199.5	209.5	212.9	214.0
82.5°	53.5	65.8	82.5	99.2	118.1	136.0	152.7	162.7	171.6	172.8	173.9
85°	36.8	44.6	56.8	69.1	83.6	98.1	111.5	119.3	125.9	125.9	127.1
87.5°	18.9	21.2	26.7	34.6	43.5	51.3	61.3	64.6	69.1	70.2	70.2
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°	493.7	493.7	493.7	493.7	493.7	493.7	493.7	493.7
2.5°	496.0	496.0	496.0	497.1	497.1	497.1	497.1	497.1
5°	523.8	527.2	531.6	533.9	536.1	538.3	539.4	539.4
7.5°	557.3	562.9	569.5	574.0	577.3	580.7	582.9	582.9
10°	589.6	598.5	604.1	611.9	616.3	618.6	621.9	621.9
12.5°	617.5	627.5	636.4	645.3	649.8	653.1	657.6	657.6
15°	640.9	654.2	664.3	674.3	679.9	684.3	687.7	688.8
17.5°	659.8	673.2	684.3	695.5	702.2	707.7	711.1	712.2
20°	671.0	686.6	698.8	710.0	717.8	724.5	727.8	728.9
22.5°	678.8	694.4	707.7	720.0	728.9	735.6	738.9	740.1
25°	679.9	696.6	711.1	723.3	733.4	740.1	743.4	744.5
27.5°	676.5	694.4	708.9	722.2	732.3	738.9	743.4	744.5
30°	668.7	686.6	702.2	715.5	724.5	732.3	735.6	736.7
32.5°	655.4	673.2	688.8	701.1	711.1	718.9	722.2	723.3
35°	639.8	656.5	671.0	684.3	693.3	701.1	705.5	705.5
37.5°	618.6	635.3	649.8	662.0	671.0	678.8	682.1	683.2
40°	596.3	611.9	625.3	637.5	646.4	653.1	656.5	656.5
42.5°	572.9	588.5	600.7	610.8	618.6	625.3	627.5	628.6
45°	548.4	561.7	572.9	581.8	588.5	594.1	596.3	597.4
47.5°	525.0	537.2	547.2	555.0	560.6	564.0	565.1	566.2
50°	501.5	512.7	520.5	527.2	530.5	533.9	535.0	535.0
52.5°	479.3	489.3	494.9	499.3	502.7	506.0	506.0	506.0
55°	458.1	465.9	470.3	473.7	475.9	478.1	479.3	479.3
57.5°	436.9	442.5	445.8	449.2	450.3	451.4	451.4	452.5
60°	415.7	420.2	422.4	424.6	424.6	425.8	426.9	426.9
62.5°	394.6	396.8	399.0	400.1	400.1	402.4	402.4	402.4
65°	372.3	374.5	375.6	375.6	376.7	378.9	378.9	381.2
67.5°	350.0	351.1	351.1	352.2	353.3	355.5	355.5	357.8
70°	327.7	328.8	327.7	329.9	329.9	332.1	333.3	335.5
72.5°	304.3	304.3	304.3	305.4	306.5	308.7	309.8	311.0
75°	277.5	278.6	278.6	278.6	277.5	278.6	278.6	280.9
77.5°	247.4	245.2	243.0	243.0	240.7	241.9	241.9	244.1
80°	210.7	208.4	206.2	206.2	204.0	206.2	207.3	207.3
82.5°	170.5	169.4	167.2	167.2	166.1	166.1	166.1	167.2
85°	124.8	123.7	121.5	121.5	120.4	120.4	121.5	121.5
87.5°	69.1	68.0	66.9	66.9	64.6	65.8	68.0	66.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)