

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: P188378

Luminaire Tested: **22SR-LD2-20-C-UNV-L830-CD1-SO-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188378  
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-LD2-20-C-UNV-L830-CD1-SO-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

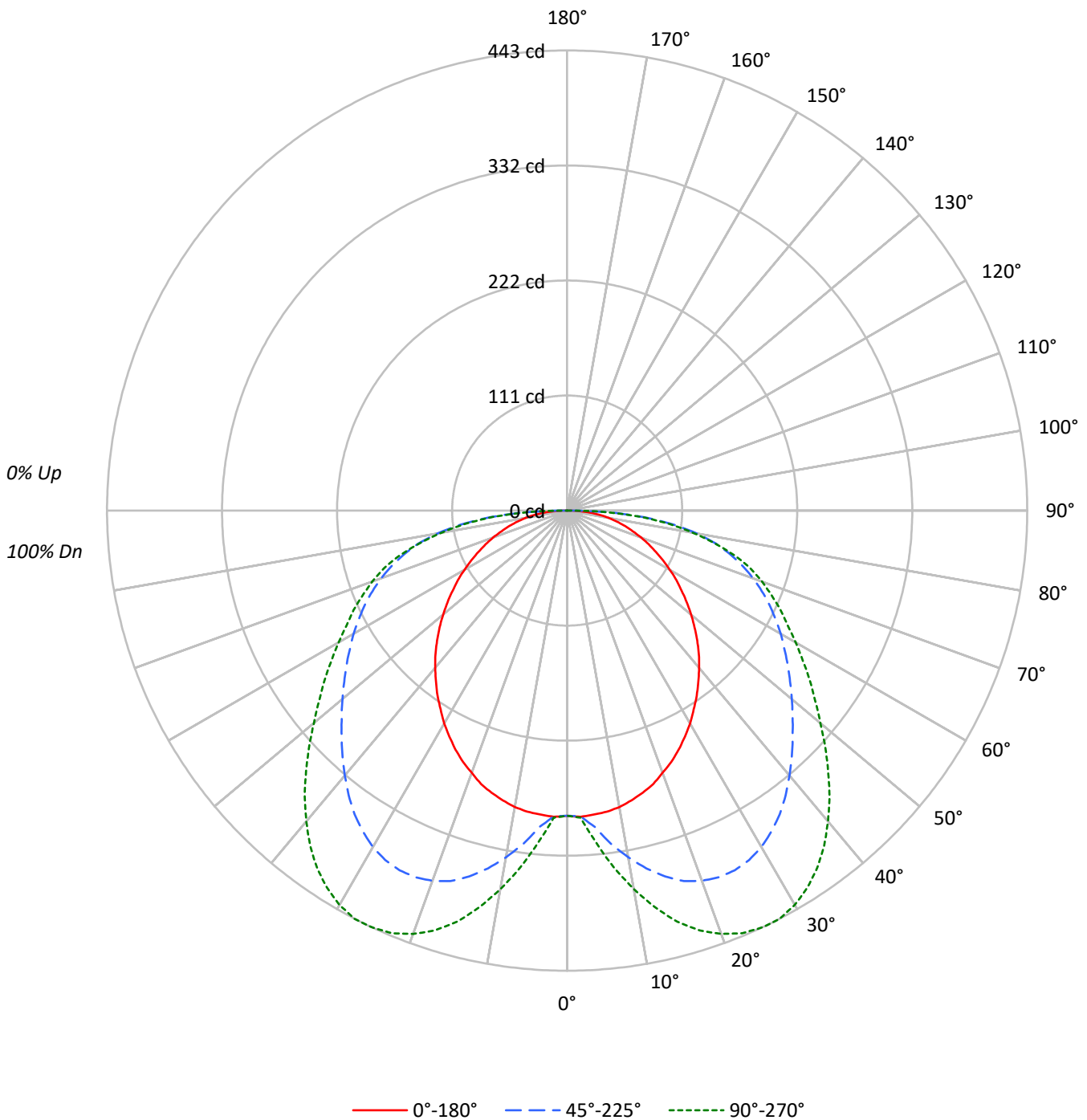
Lumens per Lamp: N/A  
Luminaire Lumens: 1353.0 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.85 / 1.71  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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



TEST NUMBER: P188378

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L830-CD1-SO-U

### Luminous Intensity Polar Plot





TEST NUMBER: P188378

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L830-CD1-SO-U

**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°	861	861	861
5°	864	899	944
10°	862	1008	1101
15°	853	1106	1243
20°	838	1183	1352
25°	821	1235	1432
30°	801	1265	1483
35°	778	1276	1502
40°	756	1273	1494
45°	734	1272	1473
50°	710	1288	1451
55°	688	1325	1457
60°	669	1391	1488
65°	653	1490	1572
70°	648	1630	1710
75°	653	1840	1892
80°	683	2138	2081
85°	736	2518	2431



TEST NUMBER: P188378

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L830-CD1-SO-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.1	2.2
10°-20°	100.6	7.4
20°-30°	169.1	12.5
30°-40°	213.2	15.8
40°-50°	224.8	16.6
50°-60°	214.2	15.8
60°-70°	189.5	14.0
70°-80°	147.2	10.9
80°-90°	64.4	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°	299.9	22.2
0°-40°	513.0	37.9
0°-60°	951.9	70.4
0°-90°	1353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	294	294	294	294	294	
5°	294	294	306	317	321	28
15°	281	314	365	398	410	79
25°	254	313	382	427	443	117
35°	218	286	357	403	420	136
45°	177	244	307	344	355	137
55°	135	203	259	281	285	121
65°	94	163	215	224	227	94
75°	58	119	162	166	167	61
85°	22	54	75	72	72	23
90°	0	0	0	0	0	



TEST NUMBER: P188378

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L830-CD1-SO-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	293.8	293.8	293.8	293.8	293.8	293.8	293.8	293.8	293.8	293.8	293.8
2.5°	295.1	295.1	294.4	294.4	294.4	294.4	293.8	293.8	294.4	294.4	294.4
5°	293.8	293.8	293.8	293.8	293.8	295.1	296.4	299.7	302.4	305.7	309.0
7.5°	292.4	291.8	291.8	293.1	295.8	300.4	305.7	312.3	318.3	323.6	328.3
10°	289.8	289.8	289.8	293.8	300.4	309.0	317.0	324.3	331.6	338.9	346.2
12.5°	285.8	285.8	287.1	295.1	305.0	315.7	324.9	334.9	344.8	352.8	361.4
15°	281.2	281.2	284.5	295.8	308.4	320.3	332.2	343.5	354.8	364.7	374.0
17.5°	275.9	275.2	281.8	295.8	309.7	323.6	336.9	350.1	362.7	374.0	384.0
20°	268.6	269.2	278.5	294.4	309.7	325.6	339.5	353.5	367.4	379.3	389.9
22.5°	261.9	263.3	274.5	291.8	308.4	324.9	340.2	354.8	369.4	382.0	393.2
25°	254.0	255.3	268.6	287.1	304.4	321.6	337.5	353.5	368.0	382.0	393.9
27.5°	245.4	247.4	262.6	281.2	299.7	317.0	333.6	349.5	365.4	379.3	391.3
30°	236.7	239.4	256.0	275.2	293.1	311.0	328.3	344.2	360.1	374.0	386.6
32.5°	226.8	230.1	248.0	267.2	285.8	303.1	320.3	336.9	352.1	366.1	378.7
35°	217.5	221.5	239.4	258.6	277.2	295.1	311.7	328.3	342.8	356.8	369.4
37.5°	207.6	211.5	230.1	249.3	267.2	285.2	301.7	317.6	332.2	345.5	357.4
40°	197.6	202.3	220.2	239.4	256.6	274.5	290.5	306.4	320.3	332.9	344.8
42.5°	187.7	193.0	210.9	229.4	246.7	263.9	279.8	295.1	308.4	320.3	330.9
45°	177.1	183.0	200.3	218.8	236.1	252.7	268.6	283.2	295.8	307.0	317.6
47.5°	166.4	173.1	190.3	208.9	225.5	242.0	256.6	271.2	283.2	294.4	303.7
50°	155.8	163.1	180.4	198.3	214.9	231.4	246.0	260.0	271.2	282.5	291.1
52.5°	145.2	153.8	171.1	188.3	204.9	220.8	235.4	248.7	260.0	270.6	278.5
55°	134.6	143.9	161.1	178.4	195.0	210.9	224.8	238.7	249.3	259.3	266.6
57.5°	124.7	134.0	151.2	168.4	185.0	200.9	214.9	228.1	238.7	248.0	255.3
60°	114.1	124.7	141.2	158.5	175.1	191.0	204.9	218.2	228.8	237.4	243.4
62.5°	104.1	114.7	132.0	148.5	165.1	181.0	195.0	208.2	218.2	226.1	231.4
65°	94.2	105.4	122.0	138.6	155.2	171.1	185.0	197.6	207.6	214.9	219.5
67.5°	84.9	96.2	112.7	128.7	145.2	160.5	175.1	187.0	195.6	202.9	206.2
70°	75.6	86.9	102.8	118.7	134.6	149.9	163.8	175.7	184.4	190.3	193.6
72.5°	66.3	77.6	92.8	108.1	124.0	138.6	152.5	163.8	171.8	177.1	179.7
75°	57.7	68.3	82.9	97.5	112.1	126.7	139.9	150.5	157.8	162.5	165.1
77.5°	49.1	59.7	72.9	86.2	100.1	114.1	126.7	135.9	143.2	146.6	149.2
80°	40.5	49.7	61.7	73.6	86.9	98.8	110.7	118.7	124.7	126.7	127.3
82.5°	31.8	39.1	49.1	59.0	70.3	80.9	90.9	96.8	102.1	102.8	103.5
85°	21.9	26.5	33.8	41.1	49.7	58.4	66.3	71.0	74.9	74.9	75.6
87.5°	11.3	12.6	15.9	20.6	25.9	30.5	36.5	38.5	41.1	41.8	41.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188378

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L830-CD1-SO-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	293.8	293.8	293.8	293.8	293.8	293.8	293.8	293.8
2.5°	295.1	295.1	295.1	295.8	295.8	295.8	295.8	295.8
5°	311.7	313.7	316.3	317.6	319.0	320.3	321.0	321.0
7.5°	331.6	334.9	338.9	341.5	343.5	345.5	346.8	346.8
10°	350.8	356.1	359.4	364.1	366.7	368.0	370.0	370.0
12.5°	367.4	373.4	378.7	384.0	386.6	388.6	391.3	391.3
15°	381.3	389.3	395.2	401.2	404.5	407.2	409.2	409.8
17.5°	392.6	400.5	407.2	413.8	417.8	421.1	423.1	423.7
20°	399.2	408.5	415.8	422.4	427.1	431.0	433.0	433.7
22.5°	403.9	413.1	421.1	428.4	433.7	437.7	439.7	440.3
25°	404.5	414.5	423.1	430.4	436.3	440.3	442.3	443.0
27.5°	402.5	413.1	421.8	429.7	435.7	439.7	442.3	443.0
30°	397.9	408.5	417.8	425.7	431.0	435.7	437.7	438.3
32.5°	389.9	400.5	409.8	417.1	423.1	427.7	429.7	430.4
35°	380.6	390.6	399.2	407.2	412.5	417.1	419.8	419.8
37.5°	368.0	378.0	386.6	393.9	399.2	403.9	405.8	406.5
40°	354.8	364.1	372.0	379.3	384.6	388.6	390.6	390.6
42.5°	340.9	350.1	357.4	363.4	368.0	372.0	373.4	374.0
45°	326.3	334.2	340.9	346.2	350.1	353.5	354.8	355.4
47.5°	312.3	319.6	325.6	330.2	333.6	335.6	336.2	336.9
50°	298.4	305.0	309.7	313.7	315.7	317.6	318.3	318.3
52.5°	285.2	291.1	294.4	297.1	299.1	301.1	301.1	301.1
55°	272.6	277.2	279.8	281.8	283.2	284.5	285.2	285.2
57.5°	260.0	263.3	265.3	267.2	267.9	268.6	268.6	269.2
60°	247.4	250.0	251.3	252.7	252.7	253.3	254.0	254.0
62.5°	234.8	236.1	237.4	238.1	238.1	239.4	239.4	239.4
65°	221.5	222.8	223.5	223.5	224.1	225.5	225.5	226.8
67.5°	208.2	208.9	208.9	209.6	210.2	211.5	211.5	212.9
70°	195.0	195.6	195.0	196.3	196.3	197.6	198.3	199.6
72.5°	181.0	181.0	181.0	181.7	182.4	183.7	184.4	185.0
75°	165.1	165.8	165.8	165.8	165.1	165.8	165.8	167.1
77.5°	147.2	145.9	144.6	144.6	143.2	143.9	143.9	145.2
80°	125.3	124.0	122.7	122.7	121.4	122.7	123.3	123.3
82.5°	101.5	100.8	99.5	99.5	98.8	98.8	98.8	99.5
85°	74.3	73.6	72.3	72.3	71.6	71.6	72.3	72.3
87.5°	41.1	40.5	39.8	39.8	38.5	39.1	40.5	39.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)