

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: P188381

Luminaire Tested: **22SR-LD2-19-C-UNV-L850-CD1-SO-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188381
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-LD2-19-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: 1479.0 lumens
Efficiency: N/A
Efficacy: 100.6 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

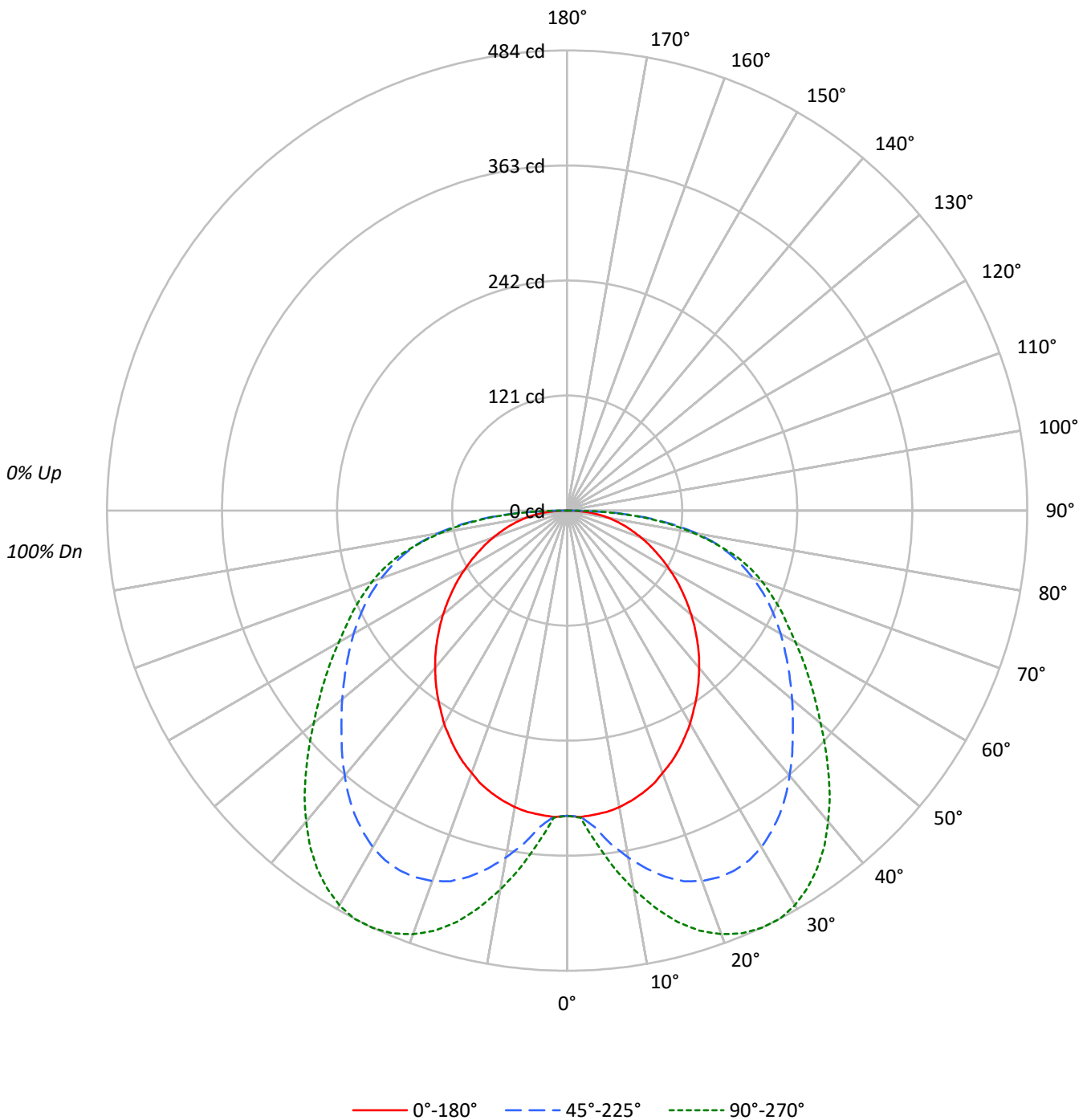
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	941	941	941
5°	944	983	1032
10°	943	1102	1203
15°	932	1209	1359
20°	915	1293	1478
25°	897	1350	1565
30°	876	1383	1621
35°	851	1395	1641
40°	826	1392	1633
45°	802	1391	1610
50°	777	1408	1586
55°	752	1448	1592
60°	731	1521	1627
65°	713	1629	1719
70°	708	1782	1869
75°	714	2011	2068
80°	746	2337	2275
85°	803	2753	2656



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	2.2
10°-20°	110.0	7.4
20°-30°	184.9	12.5
30°-40°	233.0	15.8
40°-50°	245.7	16.6
50°-60°	234.1	15.8
60°-70°	207.1	14.0
70°-80°	160.9	10.9
80°-90°	70.4	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°	327.8	22.2
0°-40°	560.8	37.9
0°-60°	1040.6	70.4
0°-90°	1479.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1479.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	321	321	321	321	321	
5°	321	322	334	346	351	31
15°	307	344	399	435	448	87
25°	278	342	418	466	484	128
35°	238	313	390	441	459	149
45°	194	267	336	376	388	149
55°	147	222	283	307	312	132
65°	103	178	235	244	248	102
75°	63	130	178	181	183	67
85°	24	59	82	79	79	25
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°	321.1	321.1	321.1	321.1	321.1	321.1	321.1	321.1	321.1	321.1	321.1
2.5°	322.6	322.6	321.9	321.9	321.9	321.9	321.1	321.1	321.9	321.9	321.9
5°	321.1	321.1	321.1	321.1	321.1	322.6	324.0	327.7	330.6	334.2	337.8
7.5°	319.7	319.0	319.0	320.4	323.3	328.4	334.2	341.4	348.0	353.8	358.8
10°	316.8	316.8	316.8	321.1	328.4	337.8	346.5	354.5	362.5	370.4	378.4
12.5°	312.4	312.4	313.9	322.6	333.5	345.1	355.2	366.1	376.9	385.6	395.1
15°	307.4	307.4	311.0	323.3	337.1	350.1	363.2	375.5	387.8	398.7	408.8
17.5°	301.6	300.8	308.1	323.3	338.5	353.8	368.3	382.7	396.5	408.8	419.7
20°	293.6	294.3	304.5	321.9	338.5	355.9	371.1	386.4	401.6	414.6	426.2
22.5°	286.3	287.8	300.1	319.0	337.1	355.2	371.9	387.8	403.8	417.5	429.9
25°	277.6	279.1	293.6	313.9	332.7	351.6	369.0	386.4	402.3	417.5	430.6
27.5°	268.2	270.4	287.1	307.4	327.7	346.5	364.6	382.0	399.4	414.6	427.7
30°	258.8	261.7	279.8	300.8	320.4	340.0	358.8	376.2	393.6	408.8	422.6
32.5°	247.9	251.5	271.1	292.1	312.4	331.3	350.1	368.3	384.9	400.1	413.9
35°	237.8	242.1	261.7	282.7	303.0	322.6	340.7	358.8	374.8	390.0	403.8
37.5°	226.9	231.2	251.5	272.6	292.1	311.7	329.8	347.2	363.2	377.7	390.7
40°	216.0	221.1	240.7	261.7	280.5	300.1	317.5	334.9	350.1	363.9	376.9
42.5°	205.1	210.9	230.5	250.8	269.7	288.5	305.9	322.6	337.1	350.1	361.7
45°	193.5	200.1	218.9	239.2	258.1	276.2	293.6	309.5	323.3	335.6	347.2
47.5°	182.0	189.2	208.0	228.3	246.5	264.6	280.5	296.5	309.5	321.9	332.0
50°	170.4	178.3	197.2	216.7	234.9	253.0	268.9	284.2	296.5	308.8	318.2
52.5°	158.8	168.2	187.0	205.9	224.0	241.4	257.3	271.8	284.2	295.8	304.5
55°	147.2	157.3	176.2	195.0	213.1	230.5	245.7	261.0	272.6	283.4	291.4
57.5°	136.3	146.4	165.3	184.1	202.2	219.6	234.9	249.4	261.0	271.1	279.1
60°	124.7	136.3	154.4	173.3	191.4	208.8	224.0	238.5	250.1	259.5	266.0
62.5°	113.8	125.4	144.3	162.4	180.5	197.9	213.1	227.6	238.5	247.2	253.0
65°	102.9	115.3	133.4	151.5	169.6	187.0	202.2	216.0	226.9	234.9	239.9
67.5°	92.8	105.1	123.2	140.6	158.8	175.4	191.4	204.4	213.8	221.8	225.4
70°	82.6	95.0	112.4	129.8	147.2	163.8	179.1	192.1	201.5	208.0	211.7
72.5°	72.5	84.8	101.5	118.2	135.6	151.5	166.7	179.1	187.7	193.5	196.4
75°	63.1	74.7	90.6	106.6	122.5	138.5	153.0	164.6	172.5	177.6	180.5
77.5°	53.6	65.2	79.7	94.2	109.5	124.7	138.5	148.6	156.6	160.2	163.1
80°	44.2	54.4	67.4	80.5	95.0	108.0	121.1	129.8	136.3	138.5	139.2
82.5°	34.8	42.8	53.6	64.5	76.8	88.4	99.3	105.8	111.6	112.4	113.1
85°	23.9	29.0	37.0	44.9	54.4	63.8	72.5	77.6	81.9	81.9	82.6
87.5°	12.3	13.8	17.4	22.5	28.3	33.3	39.9	42.0	44.9	45.7	45.7
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°	321.1	321.1	321.1	321.1	321.1	321.1	321.1	321.1
2.5°	322.6	322.6	322.6	323.3	323.3	323.3	323.3	323.3
5°	340.7	342.9	345.8	347.2	348.7	350.1	350.9	350.9
7.5°	362.5	366.1	370.4	373.3	375.5	377.7	379.1	379.1
10°	383.5	389.3	392.9	398.0	400.9	402.3	404.5	404.5
12.5°	401.6	408.1	413.9	419.7	422.6	424.8	427.7	427.7
15°	416.8	425.5	432.0	438.6	442.2	445.1	447.3	448.0
17.5°	429.1	437.8	445.1	452.3	456.7	460.3	462.5	463.2
20°	436.4	446.5	454.5	461.8	466.8	471.2	473.4	474.1
22.5°	441.5	451.6	460.3	468.3	474.1	478.4	480.6	481.3
25°	442.2	453.1	462.5	470.5	477.0	481.3	483.5	484.2
27.5°	440.0	451.6	461.0	469.7	476.3	480.6	483.5	484.2
30°	434.9	446.5	456.7	465.4	471.2	476.3	478.4	479.2
32.5°	426.2	437.8	448.0	456.0	462.5	467.6	469.7	470.5
35°	416.1	427.0	436.4	445.1	450.9	456.0	458.9	458.9
37.5°	402.3	413.2	422.6	430.6	436.4	441.5	443.6	444.4
40°	387.8	398.0	406.7	414.6	420.4	424.8	427.0	427.0
42.5°	372.6	382.7	390.7	397.2	402.3	406.7	408.1	408.8
45°	356.7	365.4	372.6	378.4	382.7	386.4	387.8	388.5
47.5°	341.4	349.4	355.9	361.0	364.6	366.8	367.5	368.3
50°	326.2	333.5	338.5	342.9	345.1	347.2	348.0	348.0
52.5°	311.7	318.2	321.9	324.8	326.9	329.1	329.1	329.1
55°	297.9	303.0	305.9	308.1	309.5	311.0	311.7	311.7
57.5°	284.2	287.8	290.0	292.1	292.9	293.6	293.6	294.3
60°	270.4	273.3	274.7	276.2	276.2	276.9	277.6	277.6
62.5°	256.6	258.1	259.5	260.2	260.2	261.7	261.7	261.7
65°	242.1	243.6	244.3	244.3	245.0	246.5	246.5	247.9
67.5°	227.6	228.3	228.3	229.1	229.8	231.2	231.2	232.7
70°	213.1	213.8	213.1	214.6	214.6	216.0	216.7	218.2
72.5°	197.9	197.9	197.9	198.6	199.3	200.8	201.5	202.2
75°	180.5	181.2	181.2	181.2	180.5	181.2	181.2	182.7
77.5°	160.9	159.5	158.0	158.0	156.6	157.3	157.3	158.8
80°	137.0	135.6	134.1	134.1	132.7	134.1	134.8	134.8
82.5°	110.9	110.2	108.7	108.7	108.0	108.0	108.0	108.7
85°	81.2	80.5	79.0	79.0	78.3	78.3	79.0	79.0
87.5°	44.9	44.2	43.5	43.5	42.0	42.8	44.2	43.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)