

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: P188384

Luminaire Tested: **22SR-LD2-19-C-UNV-L835-CD1-SO-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188384
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-L835-CD1-SO-U
Description: METALUX 2X2 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: 1332.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

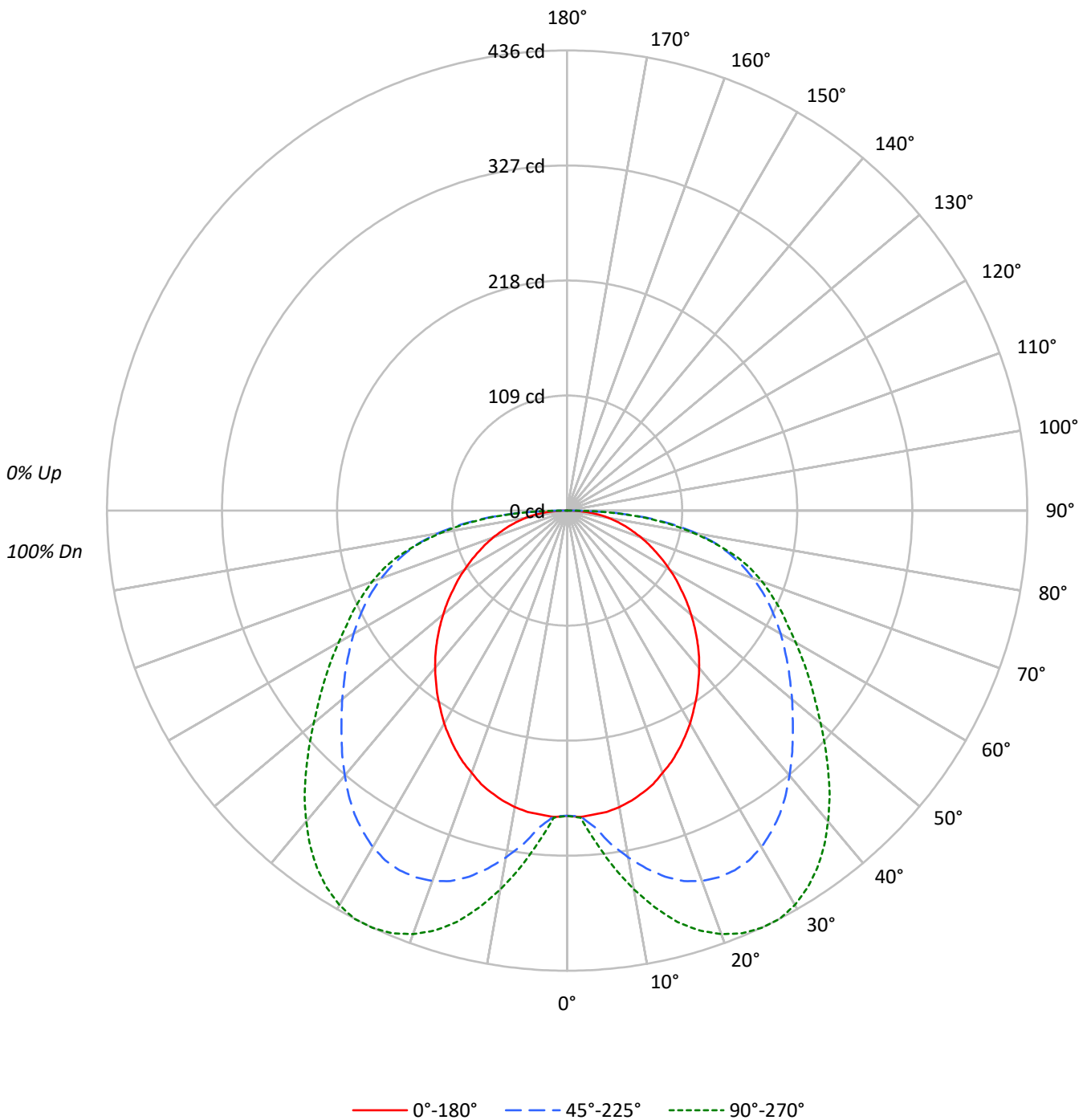
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	847	847	847
5°	851	885	929
10°	849	993	1084
15°	840	1089	1224
20°	824	1164	1331
25°	808	1216	1410
30°	789	1246	1460
35°	766	1256	1478
40°	744	1253	1471
45°	722	1253	1450
50°	699	1268	1429
55°	677	1304	1434
60°	658	1370	1465
65°	643	1466	1548
70°	637	1605	1683
75°	643	1810	1862
80°	672	2104	2048
85°	723	2481	2394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	2.2
10°-20°	99.0	7.4
20°-30°	166.5	12.5
30°-40°	209.9	15.8
40°-50°	221.3	16.6
50°-60°	210.8	15.8
60°-70°	186.6	14.0
70°-80°	144.9	10.9
80°-90°	63.4	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°	295.2	22.2
0°-40°	505.1	37.9
0°-60°	937.2	70.4
0°-90°	1332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	289	289	289	289	289	
5°	289	290	301	312	316	27
15°	277	309	359	392	404	78
25°	250	308	376	420	436	115
35°	214	282	351	397	413	134
45°	174	241	302	338	350	135
55°	132	200	255	276	281	119
65°	93	161	212	220	223	92
75°	57	118	160	163	164	60
85°	22	53	74	71	71	23
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°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2
2.5°	290.5	290.5	289.9	289.9	289.9	289.9	289.2	289.2	289.9	289.9	289.9
5°	289.2	289.2	289.2	289.2	289.2	290.5	291.8	295.1	297.7	301.0	304.2
7.5°	287.9	287.3	287.3	288.6	291.2	295.7	301.0	307.5	313.4	318.6	323.2
10°	285.3	285.3	285.3	289.2	295.7	304.2	312.1	319.2	326.4	333.6	340.8
12.5°	281.4	281.4	282.7	290.5	300.3	310.8	319.9	329.7	339.5	347.3	355.8
15°	276.8	276.8	280.1	291.2	303.6	315.3	327.1	338.2	349.3	359.1	368.2
17.5°	271.6	270.9	277.5	291.2	304.9	318.6	331.6	344.7	357.1	368.2	378.0
20°	264.4	265.1	274.2	289.9	304.9	320.6	334.3	348.0	361.7	373.4	383.9
22.5°	257.9	259.2	270.3	287.3	303.6	319.9	334.9	349.3	363.6	376.0	387.1
25°	250.0	251.3	264.4	282.7	299.7	316.6	332.3	348.0	362.3	376.0	387.8
27.5°	241.6	243.5	258.5	276.8	295.1	312.1	328.4	344.1	359.7	373.4	385.2
30°	233.1	235.7	252.0	270.9	288.6	306.2	323.2	338.8	354.5	368.2	380.6
32.5°	223.3	226.5	244.2	263.1	281.4	298.4	315.3	331.6	346.7	360.4	372.8
35°	214.1	218.1	235.7	254.6	272.9	290.5	306.8	323.2	337.5	351.2	363.6
37.5°	204.3	208.3	226.5	245.5	263.1	280.7	297.0	312.7	327.1	340.1	351.9
40°	194.6	199.1	216.7	235.7	252.7	270.3	285.9	301.6	315.3	327.7	339.5
42.5°	184.8	190.0	207.6	225.9	242.9	259.8	275.5	290.5	303.6	315.3	325.8
45°	174.3	180.2	197.2	215.4	232.4	248.7	264.4	278.8	291.2	302.3	312.7
47.5°	163.9	170.4	187.4	205.6	222.0	238.3	252.7	267.0	278.8	289.9	299.0
50°	153.4	160.6	177.6	195.2	211.5	227.8	242.2	255.9	267.0	278.1	286.6
52.5°	143.0	151.5	168.4	185.4	201.7	217.4	231.8	244.8	255.9	266.4	274.2
55°	132.5	141.7	158.6	175.6	191.9	207.6	221.3	235.0	245.5	255.3	262.4
57.5°	122.7	131.9	148.9	165.8	182.1	197.8	211.5	224.6	235.0	244.2	251.3
60°	112.3	122.7	139.1	156.0	172.4	188.0	201.7	214.8	225.2	233.7	239.6
62.5°	102.5	112.9	129.9	146.2	162.6	178.2	191.9	205.0	214.8	222.6	227.8
65°	92.7	103.8	120.1	136.4	152.8	168.4	182.1	194.6	204.3	211.5	216.1
67.5°	83.6	94.7	111.0	126.7	143.0	158.0	172.4	184.1	192.6	199.8	203.0
70°	74.4	85.5	101.2	116.9	132.5	147.5	161.3	173.0	181.5	187.4	190.6
72.5°	65.3	76.4	91.4	106.4	122.1	136.4	150.2	161.3	169.1	174.3	176.9
75°	56.8	67.2	81.6	96.0	110.3	124.7	137.8	148.2	155.4	159.9	162.6
77.5°	48.3	58.8	71.8	84.9	98.6	112.3	124.7	133.8	141.0	144.3	146.9
80°	39.8	49.0	60.7	72.5	85.5	97.3	109.0	116.9	122.7	124.7	125.3
82.5°	31.3	38.5	48.3	58.1	69.2	79.6	89.4	95.3	100.5	101.2	101.8
85°	21.5	26.1	33.3	40.5	49.0	57.5	65.3	69.9	73.8	73.8	74.4
87.5°	11.1	12.4	15.7	20.2	25.5	30.0	35.9	37.9	40.5	41.1	41.1
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°	289.2	289.2	289.2	289.2	289.2	289.2	289.2	289.2
2.5°	290.5	290.5	290.5	291.2	291.2	291.2	291.2	291.2
5°	306.8	308.8	311.4	312.7	314.0	315.3	316.0	316.0
7.5°	326.4	329.7	333.6	336.2	338.2	340.1	341.4	341.4
10°	345.4	350.6	353.8	358.4	361.0	362.3	364.3	364.3
12.5°	361.7	367.6	372.8	378.0	380.6	382.6	385.2	385.2
15°	375.4	383.2	389.1	395.0	398.2	400.9	402.8	403.5
17.5°	386.5	394.3	400.9	407.4	411.3	414.6	416.5	417.2
20°	393.0	402.2	409.3	415.9	420.4	424.4	426.3	427.0
22.5°	397.6	406.7	414.6	421.7	427.0	430.9	432.8	433.5
25°	398.2	408.0	416.5	423.7	429.6	433.5	435.5	436.1
27.5°	396.3	406.7	415.2	423.0	428.9	432.8	435.5	436.1
30°	391.7	402.2	411.3	419.1	424.4	428.9	430.9	431.5
32.5°	383.9	394.3	403.5	410.6	416.5	421.1	423.0	423.7
35°	374.7	384.5	393.0	400.9	406.1	410.6	413.3	413.3
37.5°	362.3	372.1	380.6	387.8	393.0	397.6	399.5	400.2
40°	349.3	358.4	366.3	373.4	378.7	382.6	384.5	384.5
42.5°	335.6	344.7	351.9	357.8	362.3	366.3	367.6	368.2
45°	321.2	329.0	335.6	340.8	344.7	348.0	349.3	349.9
47.5°	307.5	314.7	320.6	325.1	328.4	330.3	331.0	331.6
50°	293.8	300.3	304.9	308.8	310.8	312.7	313.4	313.4
52.5°	280.7	286.6	289.9	292.5	294.4	296.4	296.4	296.4
55°	268.3	272.9	275.5	277.5	278.8	280.1	280.7	280.7
57.5°	255.9	259.2	261.1	263.1	263.8	264.4	264.4	265.1
60°	243.5	246.1	247.4	248.7	248.7	249.4	250.0	250.0
62.5°	231.1	232.4	233.7	234.4	234.4	235.7	235.7	235.7
65°	218.1	219.4	220.0	220.0	220.7	222.0	222.0	223.3
67.5°	205.0	205.6	205.6	206.3	207.0	208.3	208.3	209.6
70°	191.9	192.6	191.9	193.2	193.2	194.6	195.2	196.5
72.5°	178.2	178.2	178.2	178.9	179.5	180.8	181.5	182.1
75°	162.6	163.2	163.2	163.2	162.6	163.2	163.2	164.5
77.5°	144.9	143.6	142.3	142.3	141.0	141.7	141.7	143.0
80°	123.4	122.1	120.8	120.8	119.5	120.8	121.4	121.4
82.5°	99.9	99.2	97.9	97.9	97.3	97.3	97.3	97.9
85°	73.1	72.5	71.2	71.2	70.5	70.5	71.2	71.2
87.5°	40.5	39.8	39.2	39.2	37.9	38.5	39.8	39.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)