

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: P188383

Luminaire Tested: **22SR-LD2-19-C-UNV-L830-CD1-SO-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188383
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-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: 1292.0 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

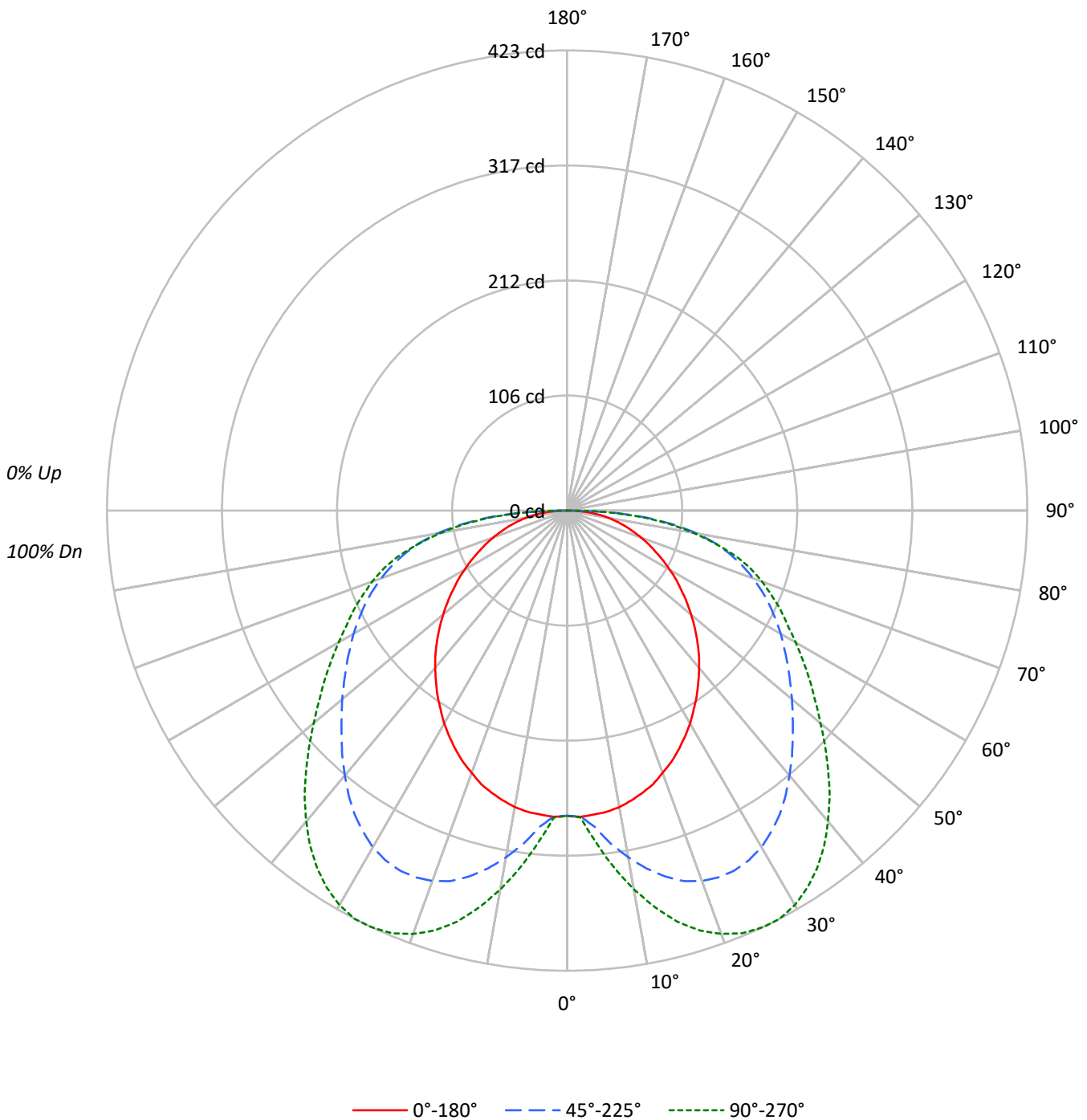
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	822	822	822
5°	825	859	901
10°	823	963	1051
15°	814	1057	1187
20°	800	1129	1291
25°	784	1179	1368
30°	765	1209	1416
35°	743	1219	1434
40°	722	1216	1427
45°	701	1215	1406
50°	678	1230	1386
55°	656	1265	1391
60°	638	1328	1421
65°	623	1423	1502
70°	619	1557	1633
75°	624	1756	1807
80°	651	2042	1988
85°	703	2407	2320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	2.2
10°-20°	96.1	7.4
20°-30°	161.5	12.5
30°-40°	203.6	15.8
40°-50°	214.6	16.6
50°-60°	204.5	15.8
60°-70°	181.0	14.0
70°-80°	140.6	10.9
80°-90°	61.5	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°	286.3	22.2
0°-40°	489.9	37.9
0°-60°	909.0	70.4
0°-90°	1292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	280	280	280	280	280	
5°	280	281	292	303	306	27
15°	268	300	348	380	391	76
25°	242	299	365	408	423	112
35°	208	273	341	385	401	130
45°	169	233	293	328	339	130
55°	128	194	248	268	272	115
65°	90	156	205	213	217	89
75°	55	114	155	158	160	58
85°	21	52	72	69	69	22
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°	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5
2.5°	281.8	281.8	281.2	281.2	281.2	281.2	280.5	280.5	281.2	281.2	281.2
5°	280.5	280.5	280.5	280.5	280.5	281.8	283.1	286.2	288.8	291.9	295.1
7.5°	279.3	278.6	278.6	279.9	282.4	286.9	291.9	298.3	304.0	309.0	313.5
10°	276.7	276.7	276.7	280.5	286.9	295.1	302.7	309.7	316.6	323.6	330.6
12.5°	272.9	272.9	274.2	281.8	291.3	301.4	310.3	319.8	329.3	336.9	345.1
15°	268.5	268.5	271.7	282.4	294.5	305.9	317.3	328.0	338.8	348.3	357.2
17.5°	263.4	262.8	269.1	282.4	295.7	309.0	321.7	334.4	346.4	357.2	366.7
20°	256.5	257.1	266.0	281.2	295.7	310.9	324.2	337.5	350.8	362.2	372.3
22.5°	250.1	251.4	262.2	278.6	294.5	310.3	324.9	338.8	352.7	364.8	375.5
25°	242.5	243.8	256.5	274.2	290.7	307.1	322.3	337.5	351.5	364.8	376.1
27.5°	234.3	236.2	250.8	268.5	286.2	302.7	318.5	333.7	348.9	362.2	373.6
30°	226.1	228.6	244.4	262.8	279.9	297.0	313.5	328.7	343.9	357.2	369.2
32.5°	216.6	219.7	236.8	255.2	272.9	289.4	305.9	321.7	336.3	349.6	361.6
35°	207.7	211.5	228.6	247.0	264.7	281.8	297.6	313.5	327.4	340.7	352.7
37.5°	198.2	202.0	219.7	238.1	255.2	272.3	288.1	303.3	317.3	329.9	341.3
40°	188.7	193.1	210.2	228.6	245.1	262.2	277.4	292.6	305.9	317.9	329.3
42.5°	179.2	184.3	201.4	219.1	235.6	252.0	267.2	281.8	294.5	305.9	316.0
45°	169.1	174.8	191.2	209.0	225.4	241.3	256.5	270.4	282.4	293.2	303.3
47.5°	158.9	165.3	181.7	199.5	215.3	231.1	245.1	259.0	270.4	281.2	290.0
50°	148.8	155.8	172.2	189.3	205.2	221.0	234.9	248.2	259.0	269.8	278.0
52.5°	138.7	146.9	163.4	179.8	195.7	210.9	224.8	237.5	248.2	258.4	266.0
55°	128.5	137.4	153.9	170.3	186.2	201.4	214.7	228.0	238.1	247.6	254.6
57.5°	119.1	127.9	144.4	160.8	176.7	191.9	205.2	217.8	228.0	236.8	243.8
60°	108.9	119.1	134.9	151.3	167.2	182.4	195.7	208.3	218.5	226.7	232.4
62.5°	99.4	109.6	126.0	141.8	157.7	172.9	186.2	198.8	208.3	215.9	221.0
65°	89.9	100.7	116.5	132.3	148.2	163.4	176.7	188.7	198.2	205.2	209.6
67.5°	81.1	91.8	107.7	122.8	138.7	153.2	167.2	178.6	186.8	193.8	196.9
70°	72.2	83.0	98.2	113.4	128.5	143.1	156.4	167.8	176.0	181.7	184.9
72.5°	63.3	74.1	88.7	103.2	118.4	132.3	145.6	156.4	164.0	169.1	171.6
75°	55.1	65.2	79.2	93.1	107.0	121.0	133.6	143.7	150.7	155.1	157.7
77.5°	46.9	57.0	69.7	82.3	95.6	108.9	121.0	129.8	136.8	139.9	142.5
80°	38.6	47.5	58.9	70.3	83.0	94.4	105.8	113.4	119.1	121.0	121.6
82.5°	30.4	37.4	46.9	56.4	67.1	77.3	86.8	92.5	97.5	98.2	98.8
85°	20.9	25.3	32.3	39.3	47.5	55.7	63.3	67.8	71.6	71.6	72.2
87.5°	10.8	12.0	15.2	19.6	24.7	29.1	34.8	36.7	39.3	39.9	39.9
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°	280.5	280.5	280.5	280.5	280.5	280.5	280.5	280.5
2.5°	281.8	281.8	281.8	282.4	282.4	282.4	282.4	282.4
5°	297.6	299.5	302.1	303.3	304.6	305.9	306.5	306.5
7.5°	316.6	319.8	323.6	326.1	328.0	329.9	331.2	331.2
10°	335.0	340.1	343.2	347.7	350.2	351.5	353.4	353.4
12.5°	350.8	356.5	361.6	366.7	369.2	371.1	373.6	373.6
15°	364.1	371.7	377.4	383.1	386.3	388.8	390.7	391.3
17.5°	374.9	382.5	388.8	395.1	398.9	402.1	404.0	404.6
20°	381.2	390.1	397.0	403.4	407.8	411.6	413.5	414.1
22.5°	385.6	394.5	402.1	409.1	414.1	417.9	419.8	420.5
25°	386.3	395.8	404.0	411.0	416.7	420.5	422.4	423.0
27.5°	384.4	394.5	402.7	410.3	416.0	419.8	422.4	423.0
30°	379.9	390.1	398.9	406.5	411.6	416.0	417.9	418.6
32.5°	372.3	382.5	391.3	398.3	404.0	408.4	410.3	411.0
35°	363.5	373.0	381.2	388.8	393.9	398.3	400.8	400.8
37.5°	351.5	361.0	369.2	376.1	381.2	385.6	387.5	388.2
40°	338.8	347.7	355.3	362.2	367.3	371.1	373.0	373.0
42.5°	325.5	334.4	341.3	347.0	351.5	355.3	356.5	357.2
45°	311.6	319.2	325.5	330.6	334.4	337.5	338.8	339.4
47.5°	298.3	305.2	310.9	315.4	318.5	320.4	321.1	321.7
50°	285.0	291.3	295.7	299.5	301.4	303.3	304.0	304.0
52.5°	272.3	278.0	281.2	283.7	285.6	287.5	287.5	287.5
55°	260.3	264.7	267.2	269.1	270.4	271.7	272.3	272.3
57.5°	248.2	251.4	253.3	255.2	255.8	256.5	256.5	257.1
60°	236.2	238.7	240.0	241.3	241.3	241.9	242.5	242.5
62.5°	224.2	225.4	226.7	227.3	227.3	228.6	228.6	228.6
65°	211.5	212.8	213.4	213.4	214.0	215.3	215.3	216.6
67.5°	198.8	199.5	199.5	200.1	200.7	202.0	202.0	203.3
70°	186.2	186.8	186.2	187.4	187.4	188.7	189.3	190.6
72.5°	172.9	172.9	172.9	173.5	174.1	175.4	176.0	176.7
75°	157.7	158.3	158.3	158.3	157.7	158.3	158.3	159.6
77.5°	140.6	139.3	138.0	138.0	136.8	137.4	137.4	138.7
80°	119.7	118.4	117.2	117.2	115.9	117.2	117.8	117.8
82.5°	96.9	96.3	95.0	95.0	94.4	94.4	94.4	95.0
85°	70.9	70.3	69.0	69.0	68.4	68.4	69.0	69.0
87.5°	39.3	38.6	38.0	38.0	36.7	37.4	38.6	38.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)