

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: P188375

Luminaire Tested: **22SR-LD2-20-C-UNV-L840-CD1-SO-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188375
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-L840-CD1-SO-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1423.0 lumens
Efficiency: N/A
Efficacy: 92.4 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

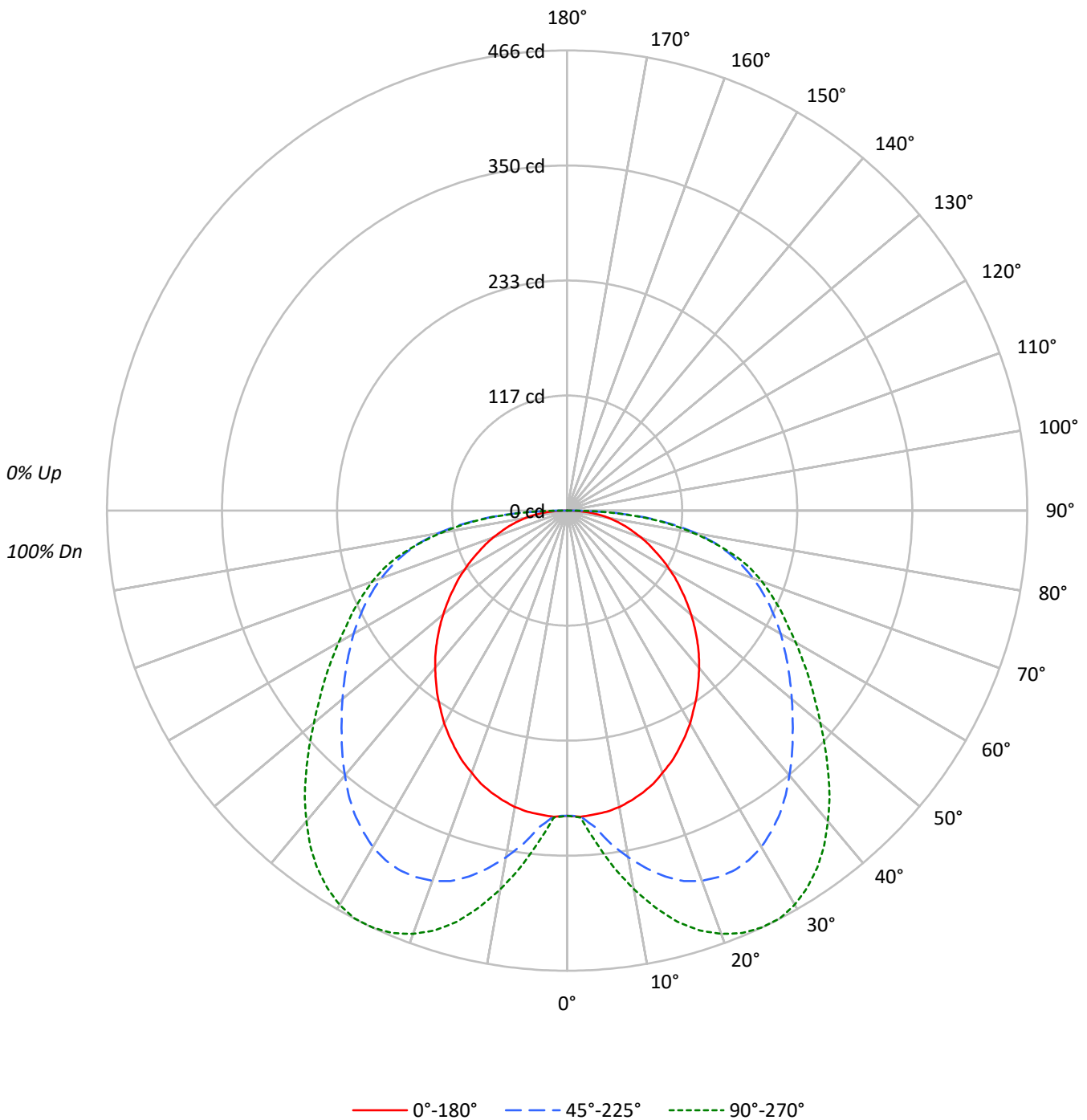
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	905	905	905
5°	909	946	993
10°	907	1060	1158
15°	897	1164	1307
20°	881	1244	1422
25°	864	1299	1506
30°	842	1331	1560
35°	818	1342	1579
40°	795	1339	1571
45°	772	1338	1549
50°	747	1354	1526
55°	723	1393	1532
60°	703	1463	1565
65°	686	1567	1654
70°	681	1715	1798
75°	687	1935	1990
80°	717	2248	2189
85°	773	2649	2555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	2.2
10°-20°	105.8	7.4
20°-30°	177.9	12.5
30°-40°	224.2	15.8
40°-50°	236.4	16.6
50°-60°	225.2	15.8
60°-70°	199.3	14.0
70°-80°	154.8	10.9
80°-90°	67.7	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°	315.4	22.2
0°-40°	539.6	37.9
0°-60°	1001.2	70.4
0°-90°	1423.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1423.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	309	309	309	309	309	
5°	309	310	322	333	338	29
15°	296	331	384	419	431	83
25°	267	329	402	449	466	123
35°	229	301	375	424	442	143
45°	186	257	323	361	374	144
55°	142	213	273	295	300	127
65°	99	172	226	235	238	98
75°	61	126	171	174	176	64
85°	23	57	79	76	76	24
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°	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0
2.5°	310.4	310.4	309.7	309.7	309.7	309.7	309.0	309.0	309.7	309.7	309.7
5°	309.0	309.0	309.0	309.0	309.0	310.4	311.8	315.2	318.0	321.5	325.0
7.5°	307.6	306.9	306.9	308.3	311.1	315.9	321.5	328.5	334.8	340.4	345.2
10°	304.8	304.8	304.8	309.0	315.9	325.0	333.4	341.1	348.7	356.4	364.1
12.5°	300.6	300.6	302.0	310.4	320.8	332.0	341.8	352.2	362.7	371.0	380.1
15°	295.7	295.7	299.2	311.1	324.3	336.9	349.4	361.3	373.1	383.6	393.4
17.5°	290.1	289.4	296.4	311.1	325.7	340.4	354.3	368.3	381.5	393.4	403.8
20°	282.5	283.2	292.9	309.7	325.7	342.5	357.1	371.7	386.4	398.9	410.1
22.5°	275.5	276.9	288.7	306.9	324.3	341.8	357.8	373.1	388.5	401.7	413.6
25°	267.1	268.5	282.5	302.0	320.1	338.3	355.0	371.7	387.1	401.7	414.3
27.5°	258.1	260.2	276.2	295.7	315.2	333.4	350.8	367.6	384.3	398.9	411.5
30°	249.0	251.8	269.2	289.4	308.3	327.1	345.2	362.0	378.7	393.4	406.6
32.5°	238.5	242.0	260.8	281.1	300.6	318.7	336.9	354.3	370.3	385.0	398.2
35°	228.8	232.9	251.8	272.0	291.5	310.4	327.8	345.2	360.6	375.2	388.5
37.5°	218.3	222.5	242.0	262.2	281.1	299.9	317.3	334.1	349.4	363.4	375.9
40°	207.8	212.7	231.6	251.8	269.9	288.7	305.5	322.2	336.9	350.1	362.7
42.5°	197.4	203.0	221.8	241.3	259.5	277.6	294.3	310.4	324.3	336.9	348.0
45°	186.2	192.5	210.6	230.2	248.3	265.7	282.5	297.8	311.1	322.9	334.1
47.5°	175.1	182.0	200.2	219.7	237.1	254.6	269.9	285.3	297.8	309.7	319.4
50°	163.9	171.6	189.7	208.5	226.0	243.4	258.8	273.4	285.3	297.1	306.2
52.5°	152.7	161.8	179.9	198.1	215.5	232.3	247.6	261.5	273.4	284.6	292.9
55°	141.6	151.3	169.5	187.6	205.1	221.8	236.4	251.1	262.2	272.7	280.4
57.5°	131.1	140.9	159.0	177.2	194.6	211.3	226.0	239.9	251.1	260.8	268.5
60°	120.0	131.1	148.6	166.7	184.1	200.9	215.5	229.5	240.6	249.7	256.0
62.5°	109.5	120.7	138.8	156.2	173.7	190.4	205.1	219.0	229.5	237.8	243.4
65°	99.0	110.9	128.3	145.8	163.2	179.9	194.6	207.8	218.3	226.0	230.9
67.5°	89.3	101.1	118.6	135.3	152.7	168.8	184.1	196.7	205.7	213.4	216.9
70°	79.5	91.4	108.1	124.8	141.6	157.6	172.3	184.8	193.9	200.2	203.7
72.5°	69.7	81.6	97.6	113.7	130.4	145.8	160.4	172.3	180.6	186.2	189.0
75°	60.7	71.8	87.2	102.5	117.9	133.2	147.2	158.3	166.0	170.9	173.7
77.5°	51.6	62.8	76.7	90.7	105.3	120.0	133.2	143.0	150.7	154.1	156.9
80°	42.5	52.3	64.9	77.4	91.4	103.9	116.5	124.8	131.1	133.2	133.9
82.5°	33.5	41.1	51.6	62.1	73.9	85.1	95.6	101.8	107.4	108.1	108.8
85°	23.0	27.9	35.6	43.2	52.3	61.4	69.7	74.6	78.8	78.8	79.5
87.5°	11.9	13.3	16.7	21.6	27.2	32.1	38.4	40.5	43.2	43.9	43.9
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°	309.0	309.0	309.0	309.0	309.0	309.0	309.0	309.0
2.5°	310.4	310.4	310.4	311.1	311.1	311.1	311.1	311.1
5°	327.8	329.9	332.7	334.1	335.5	336.9	337.6	337.6
7.5°	348.7	352.2	356.4	359.2	361.3	363.4	364.8	364.8
10°	369.0	374.5	378.0	382.9	385.7	387.1	389.2	389.2
12.5°	386.4	392.7	398.2	403.8	406.6	408.7	411.5	411.5
15°	401.0	409.4	415.7	422.0	425.4	428.2	430.3	431.0
17.5°	412.9	421.3	428.2	435.2	439.4	442.9	445.0	445.7
20°	419.9	429.6	437.3	444.3	449.2	453.3	455.4	456.1
22.5°	424.7	434.5	442.9	450.6	456.1	460.3	462.4	463.1
25°	425.4	435.9	445.0	452.6	458.9	463.1	465.2	465.9
27.5°	423.4	434.5	443.6	452.0	458.2	462.4	465.2	465.9
30°	418.5	429.6	439.4	447.8	453.3	458.2	460.3	461.0
32.5°	410.1	421.3	431.0	438.7	445.0	449.9	452.0	452.6
35°	400.3	410.8	419.9	428.2	433.8	438.7	441.5	441.5
37.5°	387.1	397.5	406.6	414.3	419.9	424.7	426.8	427.5
40°	373.1	382.9	391.3	398.9	404.5	408.7	410.8	410.8
42.5°	358.5	368.3	375.9	382.2	387.1	391.3	392.7	393.4
45°	343.1	351.5	358.5	364.1	368.3	371.7	373.1	373.8
47.5°	328.5	336.2	342.5	347.3	350.8	352.9	353.6	354.3
50°	313.9	320.8	325.7	329.9	332.0	334.1	334.8	334.8
52.5°	299.9	306.2	309.7	312.5	314.6	316.6	316.6	316.6
55°	286.7	291.5	294.3	296.4	297.8	299.2	299.9	299.9
57.5°	273.4	276.9	279.0	281.1	281.8	282.5	282.5	283.2
60°	260.2	262.9	264.3	265.7	265.7	266.4	267.1	267.1
62.5°	246.9	248.3	249.7	250.4	250.4	251.8	251.8	251.8
65°	232.9	234.3	235.0	235.0	235.7	237.1	237.1	238.5
67.5°	219.0	219.7	219.7	220.4	221.1	222.5	222.5	223.9
70°	205.1	205.7	205.1	206.4	206.4	207.8	208.5	209.9
72.5°	190.4	190.4	190.4	191.1	191.8	193.2	193.9	194.6
75°	173.7	174.4	174.4	174.4	173.7	174.4	174.4	175.8
77.5°	154.8	153.4	152.0	152.0	150.7	151.3	151.3	152.7
80°	131.8	130.4	129.0	129.0	127.6	129.0	129.7	129.7
82.5°	106.7	106.0	104.6	104.6	103.9	103.9	103.9	104.6
85°	78.1	77.4	76.0	76.0	75.3	75.3	76.0	76.0
87.5°	43.2	42.5	41.8	41.8	40.5	41.1	42.5	41.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)