

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: P188380

Luminaire Tested: **22SR-LD2-19-C-UNV-L840-CD1-SO-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188380
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-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: 1359.0 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

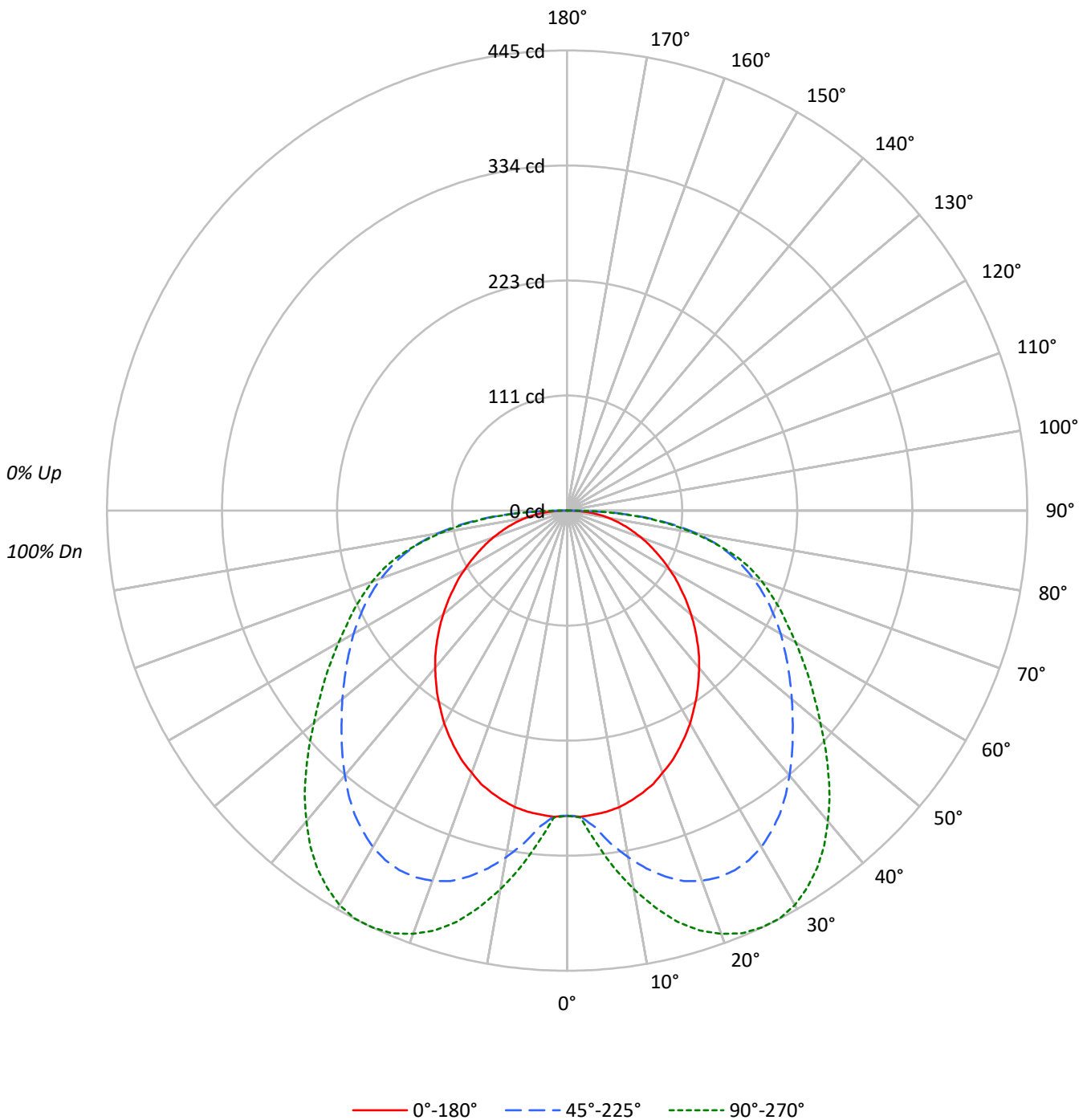
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	107	101	96	91	104	99	94	90	94	90	87	90	87	84	87	84	82	79					79			
2	96	86	79	72	93	85	77	71	81	75	70	77	72	68	74	70	66	64					64			
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55	53					53			
4	79	66	56	49	77	64	56	49	62	54	48	59	53	47	57	51	46	44					44			
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38					38			
6	67	52	43	36	65	51	42	36	49	41	35	48	41	35	46	40	35	32					32			
7	62	47	38	31	60	46	38	31	45	37	31	43	36	31	42	35	31	28					28			
8	57	43	34	28	56	42	34	28	41	33	27	40	32	27	38	32	27	25					25			
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24	22					22			
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22	20					20			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	865	865	865
5°	868	903	948
10°	866	1013	1106
15°	857	1111	1249
20°	841	1188	1358
25°	825	1240	1438
30°	805	1271	1490
35°	782	1282	1508
40°	759	1279	1501
45°	737	1278	1479
50°	713	1294	1457
55°	691	1330	1463
60°	672	1398	1495
65°	656	1496	1579
70°	650	1638	1718
75°	655	1848	1901
80°	685	2146	2091
85°	740	2531	2441



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.3	2.2
10°-20°	101.0	7.4
20°-30°	169.9	12.5
30°-40°	214.1	15.8
40°-50°	225.8	16.6
50°-60°	215.1	15.8
60°-70°	190.3	14.0
70°-80°	147.9	10.9
80°-90°	64.6	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°	301.2	22.2
0°-40°	515.3	37.9
0°-60°	956.2	70.4
0°-90°	1359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	295	295	295	295	295	
5°	295	296	307	318	322	28
15°	282	316	366	400	412	80
25°	255	314	384	429	445	117
35°	218	287	358	405	422	137
45°	178	245	308	345	357	137
55°	135	204	260	282	286	121
65°	95	164	216	224	228	94
75°	58	120	163	166	168	61
85°	22	54	75	73	73	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°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	296.4	296.4	295.7	295.7	295.7	295.7	295.1	295.1	295.7	295.7	295.7
5°	295.1	295.1	295.1	295.1	295.1	296.4	297.7	301.1	303.7	307.1	310.4
7.5°	293.7	293.1	293.1	294.4	297.1	301.7	307.1	313.7	319.7	325.1	329.7
10°	291.1	291.1	291.1	295.1	301.7	310.4	318.4	325.7	333.0	340.4	347.7
12.5°	287.1	287.1	288.4	296.4	306.4	317.1	326.4	336.4	346.4	354.4	363.0
15°	282.4	282.4	285.8	297.1	309.7	321.7	333.7	345.0	356.4	366.3	375.7
17.5°	277.1	276.4	283.1	297.1	311.1	325.1	338.4	351.7	364.3	375.7	385.7
20°	269.8	270.4	279.8	295.7	311.1	327.0	341.0	355.0	369.0	381.0	391.7
22.5°	263.1	264.4	275.8	293.1	309.7	326.4	341.7	356.4	371.0	383.7	395.0
25°	255.1	256.4	269.8	288.4	305.7	323.1	339.0	355.0	369.7	383.7	395.7
27.5°	246.5	248.5	263.8	282.4	301.1	318.4	335.0	351.0	367.0	381.0	393.0
30°	237.8	240.5	257.1	276.4	294.4	312.4	329.7	345.7	361.7	375.7	388.3
32.5°	227.8	231.1	249.1	268.4	287.1	304.4	321.7	338.4	353.7	367.7	380.3
35°	218.5	222.5	240.5	259.8	278.4	296.4	313.1	329.7	344.4	358.4	371.0
37.5°	208.5	212.5	231.1	250.4	268.4	286.4	303.1	319.1	333.7	347.0	359.0
40°	198.5	203.2	221.1	240.5	257.8	275.8	291.7	307.7	321.7	334.4	346.4
42.5°	188.5	193.8	211.8	230.5	247.8	265.1	281.1	296.4	309.7	321.7	332.4
45°	177.8	183.8	201.2	219.8	237.1	253.8	269.8	284.4	297.1	308.4	319.1
47.5°	167.2	173.8	191.2	209.8	226.5	243.1	257.8	272.4	284.4	295.7	305.1
50°	156.5	163.9	181.2	199.2	215.8	232.5	247.1	261.1	272.4	283.8	292.4
52.5°	145.9	154.5	171.9	189.2	205.8	221.8	236.5	249.8	261.1	271.8	279.8
55°	135.2	144.5	161.9	179.2	195.8	211.8	225.8	239.8	250.4	260.4	267.8
57.5°	125.2	134.5	151.9	169.2	185.8	201.8	215.8	229.1	239.8	249.1	256.4
60°	114.6	125.2	141.9	159.2	175.8	191.8	205.8	219.1	229.8	238.5	244.5
62.5°	104.6	115.2	132.6	149.2	165.9	181.8	195.8	209.2	219.1	227.1	232.5
65°	94.6	105.9	122.6	139.2	155.9	171.9	185.8	198.5	208.5	215.8	220.5
67.5°	85.3	96.6	113.2	129.2	145.9	161.2	175.8	187.8	196.5	203.8	207.2
70°	75.9	87.3	103.2	119.2	135.2	150.5	164.5	176.5	185.2	191.2	194.5
72.5°	66.6	77.9	93.3	108.6	124.6	139.2	153.2	164.5	172.5	177.8	180.5
75°	57.9	68.6	83.3	97.9	112.6	127.2	140.5	151.2	158.5	163.2	165.9
77.5°	49.3	59.9	73.3	86.6	100.6	114.6	127.2	136.5	143.9	147.2	149.9
80°	40.6	50.0	61.9	73.9	87.3	99.2	111.2	119.2	125.2	127.2	127.9
82.5°	32.0	39.3	49.3	59.3	70.6	81.3	91.3	97.2	102.6	103.2	103.9
85°	22.0	26.6	34.0	41.3	50.0	58.6	66.6	71.3	75.3	75.3	75.9
87.5°	11.3	12.7	16.0	20.6	26.0	30.6	36.6	38.6	41.3	42.0	42.0
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: P188380

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L840-CD1-SO-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	296.4	296.4	296.4	297.1	297.1	297.1	297.1	297.1
5°	313.1	315.1	317.7	319.1	320.4	321.7	322.4	322.4
7.5°	333.0	336.4	340.4	343.0	345.0	347.0	348.4	348.4
10°	352.4	357.7	361.0	365.7	368.3	369.7	371.7	371.7
12.5°	369.0	375.0	380.3	385.7	388.3	390.3	393.0	393.0
15°	383.0	391.0	397.0	403.0	406.3	409.0	411.0	411.6
17.5°	394.3	402.3	409.0	415.6	419.6	423.0	425.0	425.6
20°	401.0	410.3	417.6	424.3	429.0	433.0	435.0	435.6
22.5°	405.6	415.0	423.0	430.3	435.6	439.6	441.6	442.3
25°	406.3	416.3	425.0	432.3	438.3	442.3	444.3	444.9
27.5°	404.3	415.0	423.6	431.6	437.6	441.6	444.3	444.9
30°	399.7	410.3	419.6	427.6	433.0	437.6	439.6	440.3
32.5°	391.7	402.3	411.6	419.0	425.0	429.6	431.6	432.3
35°	382.3	392.3	401.0	409.0	414.3	419.0	421.6	421.6
37.5°	369.7	379.7	388.3	395.7	401.0	405.6	407.6	408.3
40°	356.4	365.7	373.7	381.0	386.3	390.3	392.3	392.3
42.5°	342.4	351.7	359.0	365.0	369.7	373.7	375.0	375.7
45°	327.7	335.7	342.4	347.7	351.7	355.0	356.4	357.0
47.5°	313.7	321.1	327.0	331.7	335.0	337.0	337.7	338.4
50°	299.7	306.4	311.1	315.1	317.1	319.1	319.7	319.7
52.5°	286.4	292.4	295.7	298.4	300.4	302.4	302.4	302.4
55°	273.8	278.4	281.1	283.1	284.4	285.8	286.4	286.4
57.5°	261.1	264.4	266.4	268.4	269.1	269.8	269.8	270.4
60°	248.5	251.1	252.4	253.8	253.8	254.4	255.1	255.1
62.5°	235.8	237.1	238.5	239.1	239.1	240.5	240.5	240.5
65°	222.5	223.8	224.5	224.5	225.1	226.5	226.5	227.8
67.5°	209.2	209.8	209.8	210.5	211.1	212.5	212.5	213.8
70°	195.8	196.5	195.8	197.2	197.2	198.5	199.2	200.5
72.5°	181.8	181.8	181.8	182.5	183.2	184.5	185.2	185.8
75°	165.9	166.5	166.5	166.5	165.9	166.5	166.5	167.9
77.5°	147.9	146.5	145.2	145.2	143.9	144.5	144.5	145.9
80°	125.9	124.6	123.2	123.2	121.9	123.2	123.9	123.9
82.5°	101.9	101.2	99.9	99.9	99.2	99.2	99.2	99.9
85°	74.6	73.9	72.6	72.6	71.9	71.9	72.6	72.6
87.5°	41.3	40.6	40.0	40.0	38.6	39.3	40.6	40.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)