

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: P188330

Luminaire Tested: **22SR-LD2-20-C-UNV-L830-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24793)
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-L830-CD1-PG-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1146.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 2.2 / 2
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

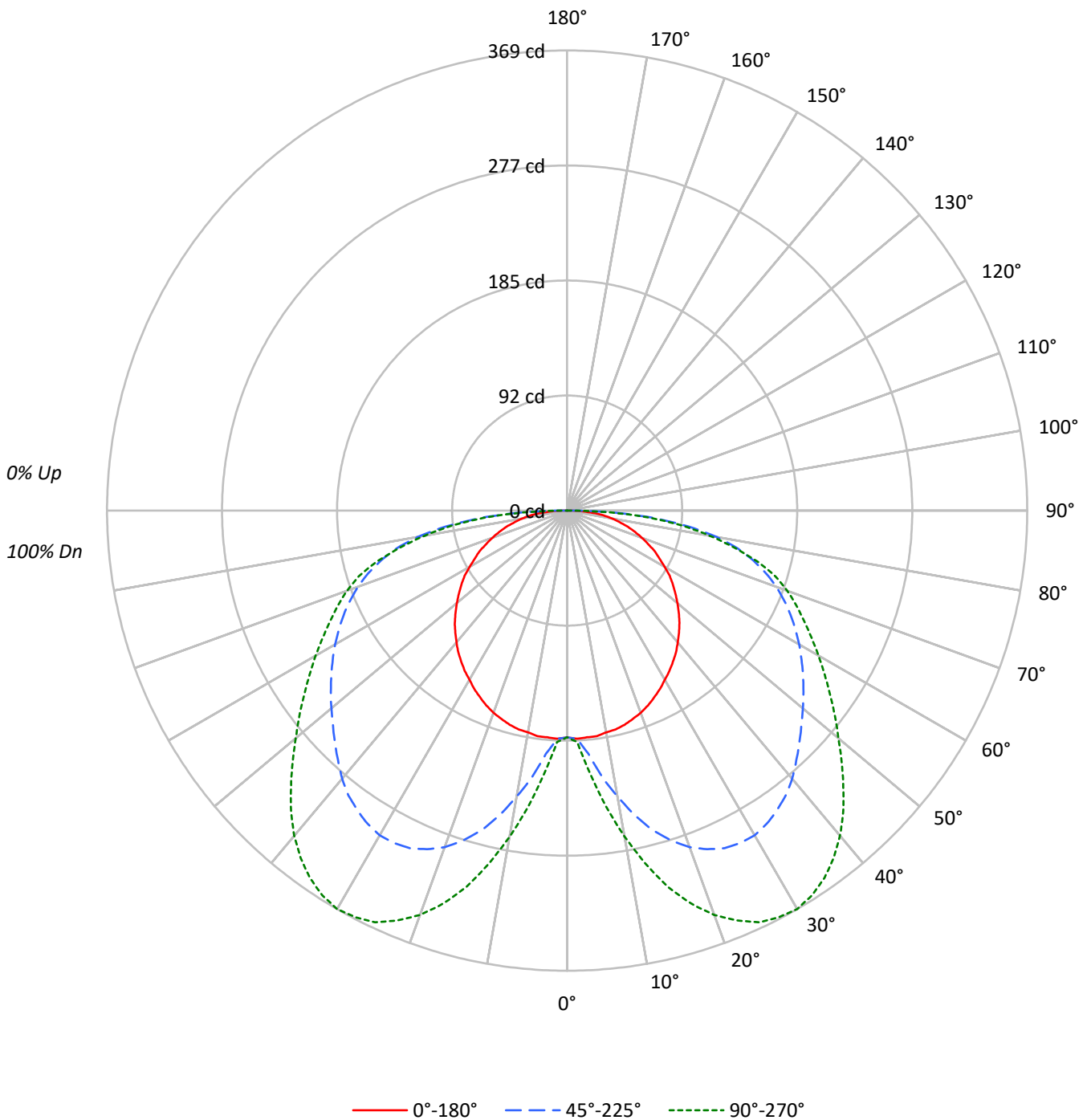
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	100	95	90	103	98	93	89	93	89	86	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	69	80	73	68	76	71	66	73	69	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	51
4	78	64	54	47	75	63	54	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	56	46	39	53	45	39	51	44	38	49	43	38	35
6	65	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	30
7	60	45	36	29	58	45	36	29	43	35	29	41	34	29	40	33	28	26
8	56	41	32	26	54	40	32	26	39	31	25	38	31	25	37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	533	533	533
5°	537	576	623
10°	537	693	790
15°	539	805	948
20°	538	896	1076
25°	534	965	1178
30°	530	1017	1248
35°	529	1049	1286
40°	528	1074	1302
45°	528	1091	1298
50°	526	1125	1295
55°	529	1180	1315
60°	529	1260	1365
65°	538	1371	1454
70°	546	1529	1609
75°	571	1750	1788
80°	616	2048	1959
85°	693	2387	2252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	1.7
10°-20°	72.5	6.3
20°-30°	130.9	11.4
30°-40°	173.4	15.1
40°-50°	190.2	16.6
50°-60°	188.1	16.4
60°-70°	172.8	15.1
70°-80°	138.2	12.1
80°-90°	60.2	5.3
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°	223.1	19.5
0°-40°	396.5	34.6
0°-60°	774.8	67.6
0°-90°	1146.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1146.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	182	182	182	182	182	
5°	182	184	196	208	212	17
15°	178	213	265	299	312	50
25°	165	227	299	347	364	76
35°	148	219	293	342	360	93
45°	127	198	263	302	313	98
55°	104	172	231	253	257	92
65°	78	146	198	207	210	76
75°	50	111	155	157	158	53
85°	21	50	71	67	67	21
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°	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8
2.5°	183.1	183.1	182.5	183.1	182.5	183.1	182.5	182.5	183.1	183.1	183.8
5°	182.5	182.5	182.5	182.5	183.1	184.4	186.4	189.1	192.4	195.7	199.0
7.5°	182.5	182.5	182.5	183.1	186.4	191.7	197.7	203.7	210.3	215.6	220.3
10°	180.5	181.1	181.1	185.1	192.4	201.0	210.3	217.6	225.6	232.9	239.5
12.5°	179.8	180.5	181.8	189.1	199.7	211.7	221.6	231.6	241.5	250.1	258.1
15°	177.8	177.8	182.5	193.1	206.3	219.0	231.6	243.5	254.8	265.4	274.7
17.5°	175.2	175.2	182.5	196.4	211.0	225.6	239.5	252.8	266.1	277.3	288.0
20°	172.5	173.2	182.5	199.0	215.0	231.6	246.2	260.8	274.7	287.3	299.2
22.5°	169.2	169.9	182.5	200.4	217.6	234.9	250.8	266.1	280.7	293.9	306.5
25°	165.2	167.2	181.1	199.7	218.3	236.2	252.8	269.4	285.3	298.6	311.8
27.5°	161.2	163.9	179.1	198.4	217.6	236.2	253.5	270.7	286.0	300.6	313.8
30°	156.6	159.9	177.2	197.1	216.3	234.9	252.8	270.0	286.0	300.6	313.8
32.5°	152.6	156.6	174.5	194.4	213.6	232.2	250.1	267.4	283.3	297.9	311.2
35°	148.0	151.9	170.5	190.4	209.7	228.2	246.2	262.7	279.3	293.3	306.5
37.5°	143.3	148.0	166.5	186.4	205.7	224.3	241.5	258.1	273.4	288.0	300.6
40°	138.0	143.3	161.9	181.8	200.4	218.3	235.5	251.5	266.7	280.7	292.6
42.5°	132.7	138.7	156.6	176.5	195.1	213.0	229.6	244.8	259.4	272.0	283.3
45°	127.4	134.0	151.9	170.5	189.1	206.3	222.3	237.5	250.8	263.4	274.0
47.5°	121.4	128.7	146.6	165.2	183.1	199.7	215.6	230.2	243.5	254.8	264.7
50°	115.4	123.4	141.3	159.2	176.5	193.7	209.0	222.9	235.5	246.8	256.1
52.5°	109.5	118.1	135.4	153.3	170.5	187.1	202.4	215.6	228.2	238.9	246.8
55°	103.5	112.1	130.0	147.3	164.5	180.5	195.7	209.0	220.9	230.9	238.2
57.5°	97.5	106.8	124.1	140.7	157.9	174.5	189.1	202.4	213.6	222.9	230.2
60°	90.2	100.9	117.4	134.7	151.3	167.9	182.5	195.1	206.3	215.0	221.6
62.5°	83.6	94.9	111.5	128.1	144.6	160.6	175.2	187.8	198.4	206.3	212.3
65°	77.6	88.2	104.8	120.8	137.3	153.9	167.9	180.5	190.4	197.7	203.0
67.5°	70.3	81.6	97.5	113.5	130.0	146.0	159.9	171.8	181.8	188.4	193.1
70°	63.7	75.0	90.2	106.2	122.1	137.3	151.3	163.2	171.8	178.5	181.8
72.5°	57.1	68.3	82.9	98.2	113.5	128.7	142.0	152.6	161.2	167.2	169.9
75°	50.4	61.0	75.0	89.6	103.5	118.1	131.4	142.0	149.3	154.6	156.6
77.5°	43.1	53.7	66.3	79.6	92.9	106.8	118.8	128.7	136.0	140.0	142.0
80°	36.5	45.1	56.4	69.0	80.9	93.6	104.2	112.8	118.8	121.4	120.8
82.5°	29.2	35.8	45.1	55.7	65.7	76.3	85.6	92.9	96.9	98.2	98.2
85°	20.6	24.5	31.2	38.5	46.4	54.4	61.7	67.0	70.3	71.0	71.0
87.5°	10.6	11.9	14.6	18.6	22.6	27.2	32.5	35.8	37.2	37.8	37.8
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°	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8
2.5°	183.8	184.4	185.1	185.1	185.1	185.8	185.8	185.8
5°	201.7	205.0	207.0	208.3	209.7	211.0	212.3	211.7
7.5°	224.3	228.2	231.6	234.2	236.2	238.2	239.5	239.5
10°	244.8	250.1	254.8	258.8	262.1	263.4	265.4	265.4
12.5°	265.4	271.4	276.7	282.0	285.3	288.0	289.9	289.9
15°	282.6	289.9	295.9	301.9	306.5	309.8	311.2	312.5
17.5°	297.2	305.2	312.5	319.1	323.8	327.1	329.1	330.4
20°	308.5	317.8	325.8	332.4	338.4	341.7	343.7	345.0
22.5°	317.1	327.1	335.7	343.0	348.3	352.3	355.0	355.6
25°	323.1	333.7	343.0	350.3	356.3	360.3	362.9	364.3
27.5°	325.8	336.4	346.3	354.3	360.3	364.9	366.9	367.6
30°	326.4	337.1	347.0	355.0	361.6	365.6	367.6	368.9
32.5°	323.8	334.4	344.4	352.3	358.3	362.3	364.9	365.6
35°	318.5	329.1	338.4	346.3	352.3	356.3	358.9	359.6
37.5°	311.8	321.8	331.1	338.4	344.4	348.3	350.3	351.0
40°	303.2	313.2	321.1	328.4	333.7	337.1	339.7	340.4
42.5°	293.9	303.2	311.2	317.1	321.8	325.8	327.1	327.8
45°	283.3	291.9	299.2	304.5	308.5	311.8	313.2	313.2
47.5°	273.4	281.3	287.3	291.9	294.6	297.2	297.9	298.6
50°	263.4	270.0	275.3	278.7	281.3	283.3	284.0	284.0
52.5°	254.1	259.4	263.4	266.7	268.0	270.0	270.7	270.7
55°	244.8	248.8	252.1	254.1	255.4	256.8	256.8	257.4
57.5°	235.5	238.9	240.8	242.2	243.5	244.2	244.8	244.8
60°	225.6	228.2	229.6	230.2	230.9	232.2	232.2	232.9
62.5°	215.6	217.6	218.3	219.0	219.6	220.3	220.9	220.9
65°	205.0	206.3	207.0	207.7	208.3	209.0	210.3	209.7
67.5°	194.4	195.1	195.7	196.4	197.1	198.4	199.0	199.0
70°	183.1	183.1	183.8	184.4	185.1	186.4	187.1	187.8
72.5°	171.2	170.5	171.2	171.8	173.2	174.5	175.2	175.2
75°	157.2	157.2	157.2	157.2	157.2	157.9	157.9	157.9
77.5°	141.3	138.0	137.3	136.7	136.7	136.7	136.7	137.3
80°	119.4	116.8	116.1	115.4	116.1	116.1	116.1	116.1
82.5°	96.9	94.2	93.6	92.9	92.9	92.9	92.9	93.6
85°	69.7	68.3	67.7	66.3	67.0	67.0	67.7	67.0
87.5°	37.8	35.8	35.8	35.2	36.5	35.8	35.8	35.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)