

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: P188270

Luminaire Tested: **22SR-LD2-25-C-UNV-L850-CD1-BR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24796)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-25-C-UNV-L850-CD1-BR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH BELLADONNA ROSE

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1621.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 2.23 / 2.03
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

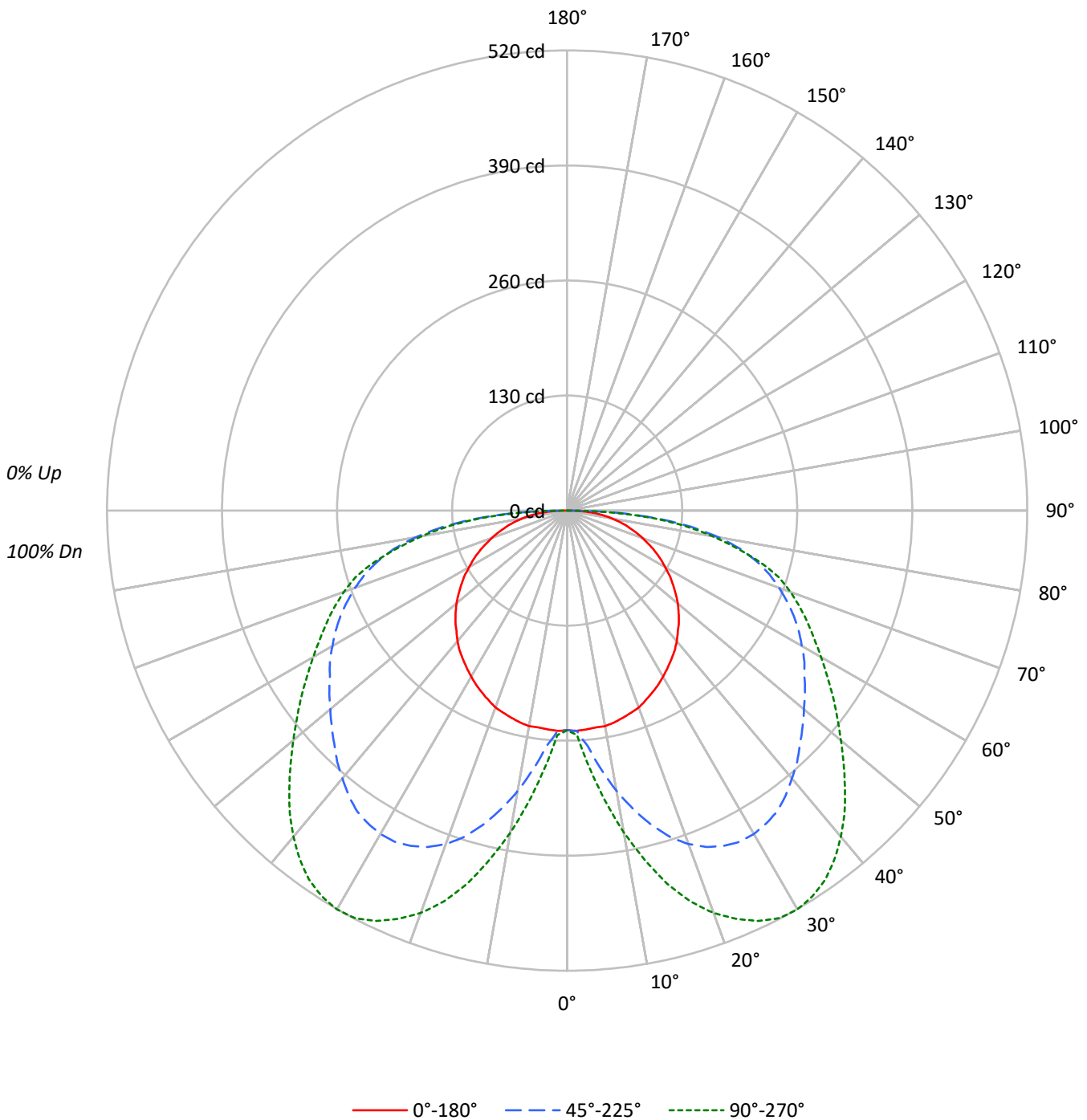
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20				20			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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	106	100	95	90	103	98	93	88	93	89	86	89	86	83	86	83	80	78	78	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62	62	62
3	85	73	64	56	83	72	63	56	68	61	55	66	59	54	63	57	53	50	50	50
4	78	64	54	46	75	63	53	46	60	52	45	57	50	45	55	49	44	42	42	42
5	71	56	46	39	69	55	46	39	53	45	38	51	44	38	49	43	37	35	35	35
6	65	50	41	33	63	49	40	33	47	39	33	46	38	33	44	37	32	30	30	30
7	60	45	36	29	58	44	35	29	43	35	29	41	34	28	40	33	28	26	26	26
8	56	41	32	26	54	40	32	25	39	31	25	38	30	25	36	30	25	23	23	23
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20	20	20
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	18	18	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	727	727	727
5°	730	786	859
10°	736	957	1099
15°	736	1115	1323
20°	738	1250	1509
25°	735	1352	1654
30°	733	1428	1760
35°	734	1482	1820
40°	737	1512	1840
45°	740	1543	1839
50°	744	1593	1841
55°	746	1672	1873
60°	750	1796	1941
65°	761	1959	2079
70°	777	2184	2299
75°	811	2508	2562
80°	871	2931	2820
85°	995	3432	3274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	1.7
10°-20°	100.5	6.2
20°-30°	183.1	11.3
30°-40°	244.1	15.1
40°-50°	268.9	16.6
50°-60°	267.2	16.5
60°-70°	246.4	15.2
70°-80°	197.5	12.2
80°-90°	86.3	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°	310.7	19.2
0°-40°	554.7	34.2
0°-60°	1090.8	67.3
0°-90°	1621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	248	248	248	248	248	
5°	248	250	267	285	292	24
15°	242	293	368	417	436	69
25°	227	316	418	486	512	105
35°	205	307	414	484	509	129
45°	178	278	372	428	444	138
55°	146	245	327	360	367	131
65°	110	207	283	295	300	109
75°	72	159	222	225	226	75
85°	30	73	102	96	97	30
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°	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2
2.5°	249.2	249.2	249.2	248.2	248.2	248.2	248.2	248.2	248.2	249.2	249.2
5°	248.2	248.2	249.2	248.2	249.2	251.1	253.9	258.7	261.6	267.3	271.1
7.5°	247.3	248.2	248.2	250.1	253.9	261.6	269.2	278.8	287.3	295.0	301.7
10°	247.3	247.3	248.2	253.0	263.5	275.9	288.3	299.8	310.3	321.7	331.3
12.5°	245.3	245.3	248.2	258.7	274.0	290.2	303.6	318.9	333.2	345.6	357.0
15°	242.5	243.4	249.2	264.4	283.5	301.7	318.9	336.0	353.2	367.5	380.9
17.5°	239.6	240.6	250.1	270.2	291.2	312.2	331.3	351.3	369.4	386.6	401.0
20°	236.8	236.8	251.1	274.0	296.9	320.8	341.8	362.8	382.8	401.0	417.2
22.5°	232.0	233.9	251.1	276.8	301.7	325.5	348.4	371.4	392.4	411.5	428.6
25°	227.2	230.1	250.1	276.8	302.6	328.4	352.3	376.1	398.1	418.1	436.3
27.5°	222.4	225.3	248.2	275.9	303.6	329.4	355.1	379.0	401.9	422.0	441.0
30°	216.7	221.5	245.3	273.0	301.7	328.4	353.2	378.0	401.0	422.0	441.0
32.5°	211.0	216.7	242.5	270.2	298.8	324.6	351.3	375.2	398.1	419.1	439.1
35°	205.2	211.0	237.7	266.3	294.0	320.8	346.5	370.4	392.4	414.3	432.5
37.5°	199.5	206.2	232.0	260.6	288.3	314.1	339.9	363.7	385.7	405.7	423.9
40°	192.8	200.5	226.3	253.9	280.7	306.4	331.3	354.2	376.1	395.2	412.4
42.5°	185.2	193.8	219.6	247.3	274.0	298.8	323.6	345.6	365.6	384.7	401.0
45°	178.5	188.1	212.9	239.6	266.3	290.2	315.0	336.0	355.1	372.3	387.6
47.5°	170.9	181.4	206.2	232.0	257.8	282.6	305.5	325.5	343.7	360.9	375.2
50°	163.2	173.7	198.6	224.3	250.1	274.0	295.9	316.0	333.2	349.4	362.8
52.5°	154.7	167.1	190.9	216.7	241.5	265.4	286.4	306.4	323.6	338.9	350.4
55°	146.1	158.5	183.3	209.1	232.9	256.8	277.8	296.9	313.1	327.4	338.9
57.5°	137.5	150.8	175.7	200.5	224.3	248.2	268.3	287.3	303.6	317.9	327.4
60°	127.9	143.2	167.1	191.9	215.8	238.7	259.7	277.8	293.1	306.4	315.0
62.5°	119.3	134.6	158.5	182.3	206.2	229.1	250.1	268.3	282.6	295.0	302.6
65°	109.8	125.1	148.9	172.8	195.7	218.6	239.6	256.8	271.1	282.6	289.3
67.5°	100.2	116.5	139.4	162.3	186.2	208.1	228.2	245.3	258.7	269.2	274.9
70°	90.7	106.9	128.9	151.8	174.7	196.7	215.8	232.9	245.3	254.9	259.7
72.5°	81.1	97.4	118.4	140.3	162.3	184.2	202.4	218.6	230.1	239.6	243.4
75°	71.6	86.9	106.9	127.0	148.0	169.9	187.1	202.4	213.8	221.5	224.3
77.5°	62.1	76.4	94.5	113.6	133.7	153.7	170.9	184.2	193.8	200.5	202.4
80°	51.6	64.9	81.1	98.3	115.5	134.6	148.9	161.3	169.9	173.7	172.8
82.5°	41.0	51.6	64.9	79.2	93.6	109.8	122.2	131.7	138.4	141.3	139.4
85°	29.6	36.3	44.9	55.4	66.8	79.2	88.8	95.5	100.2	102.1	100.2
87.5°	15.3	17.2	21.0	25.8	32.5	41.0	46.8	52.5	52.5	54.4	53.5
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: P188270

CATALOG NUMBER: 22SR-LD2-25-C-UNV-L850-CD1-BR-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	248.2	248.2	248.2	248.2	248.2	248.2	248.2	248.2
2.5°	250.1	250.1	251.1	252.0	252.0	252.0	252.0	253.9
5°	276.8	279.7	283.5	286.4	287.3	288.3	290.2	292.1
7.5°	307.4	313.1	316.9	323.6	325.5	327.4	328.4	331.3
10°	339.9	347.5	352.3	358.0	362.8	364.7	366.6	369.4
12.5°	366.6	376.1	383.8	391.4	395.2	400.0	401.0	403.8
15°	393.3	403.8	412.4	421.0	426.7	430.5	433.4	436.3
17.5°	415.3	425.8	436.3	446.8	452.5	457.3	460.1	463.0
20°	431.5	444.9	456.3	466.8	472.6	478.3	481.1	484.0
22.5°	443.9	458.2	470.6	481.1	488.8	495.5	498.3	499.3
25°	453.5	467.8	481.1	491.6	500.2	506.9	509.8	511.7
27.5°	458.2	473.5	487.8	499.3	507.9	514.6	517.4	519.3
30°	459.2	474.5	488.8	500.2	508.8	515.5	518.4	520.3
32.5°	456.3	472.6	485.9	497.4	506.0	512.6	515.5	516.5
35°	449.6	465.9	479.2	489.7	498.3	504.1	507.9	508.8
37.5°	440.1	455.4	467.8	478.3	486.9	492.6	495.5	496.4
40°	428.6	442.0	454.4	464.0	471.6	477.3	480.2	481.1
42.5°	416.2	428.6	439.1	448.7	455.4	460.1	463.0	464.0
45°	401.9	413.4	423.9	431.5	437.2	441.0	443.9	443.9
47.5°	387.6	398.1	407.6	413.4	418.1	421.0	422.9	423.9
50°	374.2	383.8	390.5	396.2	400.0	401.9	403.8	403.8
52.5°	360.9	368.5	374.2	378.0	381.9	382.8	384.7	384.7
55°	348.4	354.2	358.9	361.8	363.7	364.7	365.6	366.6
57.5°	335.1	339.9	342.7	344.6	346.5	347.5	347.5	348.4
60°	321.7	325.5	327.4	328.4	329.4	330.3	331.3	331.3
62.5°	307.4	310.3	311.2	312.2	313.1	314.1	315.0	315.0
65°	293.1	295.0	295.0	295.9	296.9	298.8	298.8	299.8
67.5°	277.8	278.8	278.8	279.7	280.7	282.6	283.5	284.5
70°	261.6	262.5	262.5	263.5	264.4	265.4	267.3	268.3
72.5°	244.4	244.4	244.4	245.3	247.3	248.2	250.1	251.1
75°	225.3	224.3	225.3	224.3	224.3	225.3	225.3	226.3
77.5°	201.4	198.6	196.7	195.7	194.7	194.7	195.7	196.7
80°	170.9	168.0	166.1	165.2	165.2	166.1	166.1	167.1
82.5°	138.4	135.6	133.7	133.7	132.7	133.7	133.7	134.6
85°	100.2	98.3	96.4	95.5	95.5	96.4	96.4	97.4
87.5°	53.5	52.5	51.6	51.6	49.6	51.6	51.6	51.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)