

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: P188366

Luminaire Tested: **22SR-LD2-29-C-UNV-L840-CD1-SO-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188366  
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-LD2-29-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**

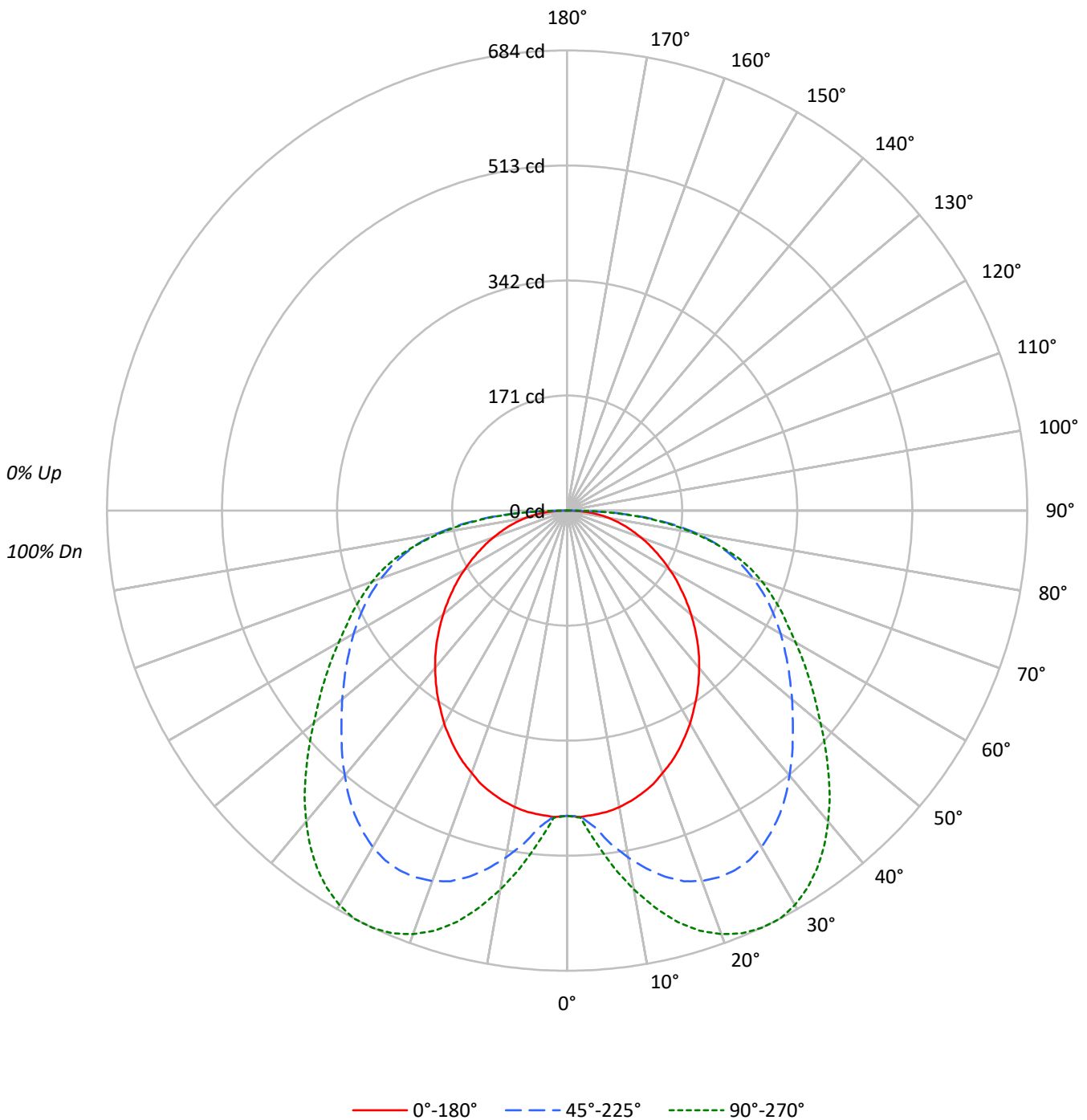
Lumens per Lamp: N/A  
Luminaire Lumens: 2090.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.85 / 1.71  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	1330	1330	1330
5°	1335	1389	1458
10°	1332	1558	1701
15°	1317	1709	1920
20°	1294	1827	2089
25°	1268	1907	2212
30°	1237	1955	2291
35°	1202	1971	2319
40°	1168	1967	2308
45°	1133	1965	2275
50°	1097	1989	2241
55°	1062	2046	2250
60°	1033	2149	2299
65°	1009	2301	2429
70°	1001	2519	2641
75°	1009	2842	2922
80°	1055	3302	3214
85°	1136	3893	3755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.5	2.2
10°-20°	155.4	7.4
20°-30°	261.3	12.5
30°-40°	329.3	15.8
40°-50°	347.2	16.6
50°-60°	330.8	15.8
60°-70°	292.7	14.0
70°-80°	227.4	10.9
80°-90°	99.4	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°	463.2	22.2
0°-40°	792.5	37.9
0°-60°	1470.5	70.4
0°-90°	2090.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2090.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	454	454	454	454	454	
5°	454	455	472	490	496	43
15°	434	486	563	615	633	122
25°	392	484	590	659	684	181
35°	336	442	551	623	648	210
45°	274	378	474	531	549	211
55°	208	313	400	434	440	186
65°	146	252	332	345	350	145
75°	89	184	251	256	258	94
85°	34	83	116	112	112	36
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°	453.8	453.8	453.8	453.8	453.8	453.8	453.8	453.8	453.8	453.8	453.8
2.5°	455.8	455.8	454.8	454.8	454.8	454.8	453.8	453.8	454.8	454.8	454.8
5°	453.8	453.8	453.8	453.8	453.8	455.8	457.9	463.0	467.1	472.2	477.4
7.5°	451.7	450.7	450.7	452.8	456.9	464.0	472.2	482.5	491.7	499.9	507.1
10°	447.7	447.7	447.7	453.8	464.0	477.4	489.6	500.9	512.2	523.5	534.7
12.5°	441.5	441.5	443.6	455.8	471.2	487.6	501.9	517.3	532.7	545.0	558.3
15°	434.3	434.3	439.5	456.9	476.3	494.8	513.2	530.6	548.0	563.4	577.7
17.5°	426.1	425.1	435.4	456.9	478.4	499.9	520.4	540.9	560.3	577.7	593.1
20°	414.9	415.9	430.2	454.8	478.4	503.0	524.5	546.0	567.5	585.9	602.3
22.5°	404.6	406.7	424.1	450.7	476.3	501.9	525.5	548.0	570.6	590.0	607.5
25°	392.3	394.4	414.9	443.6	470.2	496.8	521.4	546.0	568.5	590.0	608.5
27.5°	379.0	382.1	405.7	434.3	463.0	489.6	515.3	539.8	564.4	585.9	604.4
30°	365.7	369.8	395.4	425.1	452.8	480.4	507.1	531.6	556.2	577.7	597.2
32.5°	350.3	355.5	383.1	412.8	441.5	468.1	494.8	520.4	543.9	565.5	584.9
35°	336.0	342.1	369.8	399.5	428.2	455.8	481.5	507.1	529.6	551.1	570.6
37.5°	320.6	326.8	355.5	385.2	412.8	440.5	466.1	490.7	513.2	533.7	552.1
40°	305.3	312.4	340.1	369.8	396.4	424.1	448.7	473.3	494.8	514.2	532.7
42.5°	289.9	298.1	325.7	354.4	381.1	407.7	432.3	455.8	476.3	494.8	511.2
45°	273.5	282.7	309.4	338.0	364.7	390.3	414.9	437.4	456.9	474.3	490.7
47.5°	257.1	267.4	294.0	322.7	348.3	373.9	396.4	419.0	437.4	454.8	469.2
50°	240.7	252.0	278.6	306.3	331.9	357.5	380.0	401.6	419.0	436.4	449.7
52.5°	224.3	237.7	264.3	290.9	316.5	341.1	363.7	384.1	401.6	417.9	430.2
55°	207.9	222.3	248.9	275.6	301.2	325.7	347.3	368.8	385.2	400.5	411.8
57.5°	192.6	206.9	233.6	260.2	285.8	310.4	331.9	352.4	368.8	383.1	394.4
60°	176.2	192.6	218.2	244.8	270.4	295.0	316.5	337.0	353.4	366.7	375.9
62.5°	160.8	177.2	203.8	229.5	255.1	279.7	301.2	321.7	337.0	349.3	357.5
65°	145.5	162.9	188.5	214.1	239.7	264.3	285.8	305.3	320.6	331.9	339.1
67.5°	131.1	148.5	174.1	198.7	224.3	247.9	270.4	288.9	302.2	313.5	318.6
70°	116.8	134.2	158.8	183.4	207.9	231.5	253.0	271.5	284.8	294.0	299.1
72.5°	102.4	119.9	143.4	167.0	191.6	214.1	235.6	253.0	265.3	273.5	277.6
75°	89.1	105.5	128.0	150.6	173.1	195.7	216.1	232.5	243.8	251.0	255.1
77.5°	75.8	92.2	112.7	133.2	154.7	176.2	195.7	210.0	221.3	226.4	230.5
80°	62.5	76.8	95.3	113.7	134.2	152.6	171.1	183.4	192.6	195.7	196.7
82.5°	49.2	60.4	75.8	91.2	108.6	125.0	140.3	149.6	157.8	158.8	159.8
85°	33.8	41.0	52.2	63.5	76.8	90.1	102.4	109.6	115.8	115.8	116.8
87.5°	17.4	19.5	24.6	31.8	40.0	47.1	56.3	59.4	63.5	64.5	64.5
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°	453.8	453.8	453.8	453.8	453.8	453.8	453.8	453.8
2.5°	455.8	455.8	455.8	456.9	456.9	456.9	456.9	456.9
5°	481.5	484.5	488.6	490.7	492.7	494.8	495.8	495.8
7.5°	512.2	517.3	523.5	527.6	530.6	533.7	535.7	535.7
10°	541.9	550.1	555.2	562.4	566.5	568.5	571.6	571.6
12.5°	567.5	576.7	584.9	593.1	597.2	600.3	604.4	604.4
15°	589.0	601.3	610.5	619.7	624.9	629.0	632.0	633.1
17.5°	606.4	618.7	629.0	639.2	645.4	650.5	653.5	654.6
20°	616.7	631.0	642.3	652.5	659.7	665.8	668.9	669.9
22.5°	623.8	638.2	650.5	661.7	669.9	676.1	679.2	680.2
25°	624.9	640.2	653.5	664.8	674.0	680.2	683.3	684.3
27.5°	621.8	638.2	651.5	663.8	673.0	679.2	683.3	684.3
30°	614.6	631.0	645.4	657.6	665.8	673.0	676.1	677.1
32.5°	602.3	618.7	633.1	644.3	653.5	660.7	663.8	664.8
35°	588.0	603.4	616.7	629.0	637.2	644.3	648.4	648.4
37.5°	568.5	583.9	597.2	608.5	616.7	623.8	626.9	627.9
40°	548.0	562.4	574.7	585.9	594.1	600.3	603.4	603.4
42.5°	526.5	540.9	552.1	561.4	568.5	574.7	576.7	577.7
45°	504.0	516.3	526.5	534.7	540.9	546.0	548.0	549.1
47.5°	482.5	493.7	503.0	510.1	515.3	518.3	519.4	520.4
50°	461.0	471.2	478.4	484.5	487.6	490.7	491.7	491.7
52.5°	440.5	449.7	454.8	458.9	462.0	465.1	465.1	465.1
55°	421.0	428.2	432.3	435.4	437.4	439.5	440.5	440.5
57.5°	401.6	406.7	409.7	412.8	413.8	414.9	414.9	415.9
60°	382.1	386.2	388.2	390.3	390.3	391.3	392.3	392.3
62.5°	362.6	364.7	366.7	367.7	367.7	369.8	369.8	369.8
65°	342.1	344.2	345.2	345.2	346.2	348.3	348.3	350.3
67.5°	321.7	322.7	322.7	323.7	324.7	326.8	326.8	328.8
70°	301.2	302.2	301.2	303.2	303.2	305.3	306.3	308.3
72.5°	279.7	279.7	279.7	280.7	281.7	283.8	284.8	285.8
75°	255.1	256.1	256.1	256.1	255.1	256.1	256.1	258.1
77.5°	227.4	225.4	223.3	223.3	221.3	222.3	222.3	224.3
80°	193.6	191.6	189.5	189.5	187.5	189.5	190.5	190.5
82.5°	156.7	155.7	153.7	153.7	152.6	152.6	152.6	153.7
85°	114.7	113.7	111.7	111.7	110.6	110.6	111.7	111.7
87.5°	63.5	62.5	61.5	61.5	59.4	60.4	62.5	61.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)