

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: P188318

Luminaire Tested: **22SR-LD2-29-C-UNV-L830-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188318  
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-LD2-29-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**

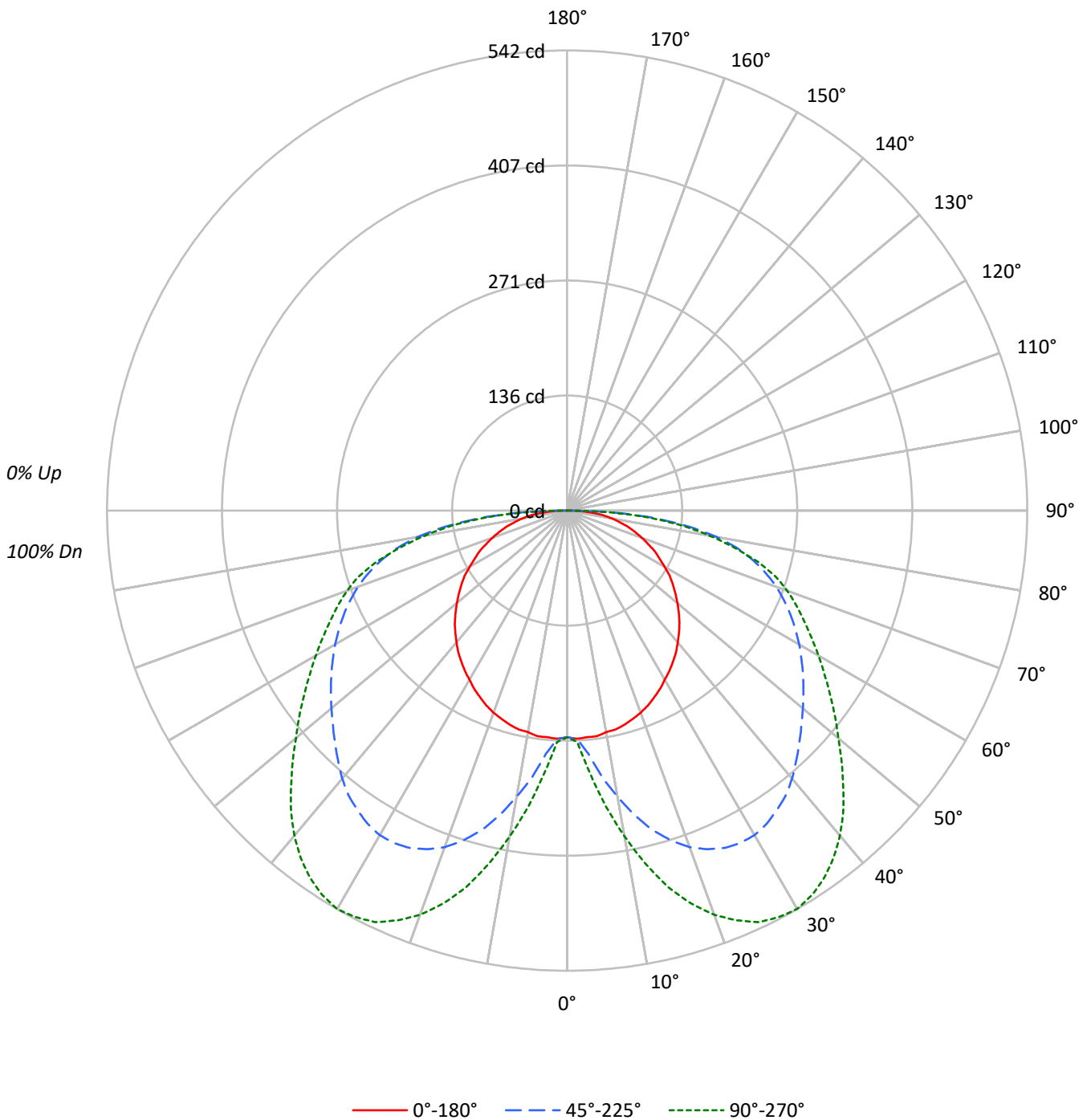
Lumens per Lamp: N/A  
Luminaire Lumens: 1683.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 2.19 / 2  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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	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°	782	782	782
5°	788	845	914
10°	788	1018	1160
15°	792	1182	1392
20°	790	1316	1580
25°	784	1418	1729
30°	778	1493	1833
35°	777	1541	1889
40°	775	1577	1912
45°	775	1603	1906
50°	773	1652	1901
55°	776	1732	1931
60°	776	1850	2004
65°	790	2013	2135
70°	801	2245	2363
75°	839	2570	2625
80°	904	3009	2877
85°	1015	3506	3308



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.0	1.7
10°-20°	106.5	6.3
20°-30°	192.2	11.4
30°-40°	254.6	15.1
40°-50°	279.4	16.6
50°-60°	276.3	16.4
60°-70°	253.7	15.1
70°-80°	202.9	12.1
80°-90°	88.4	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°	327.7	19.5
0°-40°	582.2	34.6
0°-60°	1137.9	67.6
0°-90°	1683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	267	267	267	267	267	
5°	268	270	287	305	311	26
15°	261	312	390	439	459	74
25°	243	334	438	509	535	112
35°	217	322	431	503	528	136
45°	187	290	387	443	460	144
55°	152	253	339	372	378	136
65°	114	214	290	304	308	112
75°	74	163	227	231	232	78
85°	30	74	104	98	98	31
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°	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0
2.5°	268.9	268.9	268.0	268.9	268.0	268.9	268.0	268.0	268.9	268.9	269.9
5°	268.0	268.0	268.0	268.0	268.9	270.9	273.8	277.7	282.6	287.4	292.3
7.5°	268.0	268.0	268.0	268.9	273.8	281.6	290.4	299.1	308.9	316.7	323.5
10°	265.0	266.0	266.0	271.9	282.6	295.2	308.9	319.6	331.3	342.0	351.8
12.5°	264.1	265.0	267.0	277.7	293.3	310.8	325.4	340.1	354.7	367.3	379.0
15°	261.1	261.1	268.0	283.5	303.0	321.5	340.1	357.6	374.2	389.8	403.4
17.5°	257.2	257.2	268.0	288.4	309.9	331.3	351.8	371.2	390.7	407.3	422.9
20°	253.3	254.3	268.0	292.3	315.7	340.1	361.5	382.9	403.4	421.9	439.4
22.5°	248.5	249.4	268.0	294.3	319.6	344.9	368.3	390.7	412.2	431.7	450.2
25°	242.6	245.5	266.0	293.3	320.6	346.9	371.2	395.6	419.0	438.5	458.0
27.5°	236.8	240.7	263.1	291.3	319.6	346.9	372.2	397.6	420.0	441.4	460.9
30°	230.0	234.8	260.2	289.4	317.7	344.9	371.2	396.6	420.0	441.4	460.9
32.5°	224.1	230.0	256.3	285.5	313.8	341.0	367.3	392.7	416.1	437.5	457.0
35°	217.3	223.1	250.4	279.6	307.9	335.2	361.5	385.9	410.2	430.7	450.2
37.5°	210.5	217.3	244.6	273.8	302.1	329.3	354.7	379.0	401.4	422.9	441.4
40°	202.7	210.5	237.8	267.0	294.3	320.6	345.9	369.3	391.7	412.2	429.7
42.5°	194.9	203.6	230.0	259.2	286.5	312.8	337.1	359.5	381.0	399.5	416.1
45°	187.1	196.8	223.1	250.4	277.7	303.0	326.4	348.8	368.3	386.8	402.4
47.5°	178.3	189.0	215.3	242.6	268.9	293.3	316.7	338.1	357.6	374.2	388.8
50°	169.5	181.2	207.5	233.9	259.2	284.5	306.9	327.4	345.9	362.5	376.1
52.5°	160.8	173.4	198.8	225.1	250.4	274.8	297.2	316.7	335.2	350.8	362.5
55°	152.0	164.7	191.0	216.3	241.6	265.0	287.4	306.9	324.5	339.1	349.8
57.5°	143.2	156.9	182.2	206.6	231.9	256.3	277.7	297.2	313.8	327.4	338.1
60°	132.5	148.1	172.5	197.8	222.2	246.5	268.0	286.5	303.0	315.7	325.4
62.5°	122.8	139.3	163.7	188.1	212.4	235.8	257.2	275.8	291.3	303.0	311.8
65°	114.0	129.6	154.0	177.3	201.7	226.1	246.5	265.0	279.6	290.4	298.2
67.5°	103.3	119.8	143.2	166.6	191.0	214.4	234.8	252.4	267.0	276.7	283.5
70°	93.5	110.1	132.5	155.9	179.3	201.7	222.2	239.7	252.4	262.1	267.0
72.5°	83.8	100.4	121.8	144.2	166.6	189.0	208.5	224.1	236.8	245.5	249.4
75°	74.1	89.6	110.1	131.5	152.0	173.4	192.9	208.5	219.2	227.0	230.0
77.5°	63.3	78.9	97.4	116.9	136.4	156.9	174.4	189.0	199.7	205.6	208.5
80°	53.6	66.3	82.8	101.3	118.9	137.4	153.0	165.6	174.4	178.3	177.3
82.5°	42.9	52.6	66.3	81.8	96.5	112.1	125.7	136.4	142.3	144.2	144.2
85°	30.2	36.1	45.8	56.5	68.2	79.9	90.6	98.4	103.3	104.3	104.3
87.5°	15.6	17.5	21.4	27.3	33.1	39.9	47.7	52.6	54.6	55.5	55.5
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°	267.0	267.0	267.0	267.0	267.0	267.0	267.0	267.0
2.5°	269.9	270.9	271.9	271.9	271.9	272.8	272.8	272.8
5°	296.2	301.1	304.0	306.0	307.9	309.9	311.8	310.8
7.5°	329.3	335.2	340.1	344.0	346.9	349.8	351.8	351.8
10°	359.5	367.3	374.2	380.0	384.9	386.8	389.8	389.8
12.5°	389.8	398.5	406.3	414.1	419.0	422.9	425.8	425.8
15°	415.1	425.8	434.6	443.3	450.2	455.0	457.0	458.9
17.5°	436.5	448.2	458.9	468.7	475.5	480.4	483.3	485.2
20°	453.1	466.7	478.4	488.2	496.9	501.8	504.7	506.7
22.5°	465.8	480.4	493.0	503.8	511.6	517.4	521.3	522.3
25°	474.5	490.1	503.8	514.5	523.2	529.1	533.0	534.9
27.5°	478.4	494.0	508.6	520.3	529.1	535.9	538.8	539.8
30°	479.4	495.0	509.6	521.3	531.0	536.9	539.8	541.8
32.5°	475.5	491.1	505.7	517.4	526.2	532.0	535.9	536.9
35°	467.7	483.3	496.9	508.6	517.4	523.2	527.1	528.1
37.5°	458.0	472.6	486.2	496.9	505.7	511.6	514.5	515.5
40°	445.3	459.9	471.6	482.3	490.1	495.0	498.9	499.9
42.5°	431.7	445.3	457.0	465.8	472.6	478.4	480.4	481.3
45°	416.1	428.7	439.4	447.2	453.1	458.0	459.9	459.9
47.5°	401.4	413.1	421.9	428.7	432.6	436.5	437.5	438.5
50°	386.8	396.6	404.4	409.2	413.1	416.1	417.0	417.0
52.5°	373.2	381.0	386.8	391.7	393.7	396.6	397.6	397.6
55°	359.5	365.4	370.3	373.2	375.1	377.1	377.1	378.1
57.5°	345.9	350.8	353.7	355.7	357.6	358.6	359.5	359.5
60°	331.3	335.2	337.1	338.1	339.1	341.0	341.0	342.0
62.5°	316.7	319.6	320.6	321.5	322.5	323.5	324.5	324.5
65°	301.1	303.0	304.0	305.0	306.0	306.9	308.9	307.9
67.5°	285.5	286.5	287.4	288.4	289.4	291.3	292.3	292.3
70°	268.9	268.9	269.9	270.9	271.9	273.8	274.8	275.8
72.5°	251.4	250.4	251.4	252.4	254.3	256.3	257.2	257.2
75°	230.9	230.9	230.9	230.9	230.9	231.9	231.9	231.9
77.5°	207.5	202.7	201.7	200.7	200.7	200.7	200.7	201.7
80°	175.4	171.5	170.5	169.5	170.5	170.5	170.5	170.5
82.5°	142.3	138.4	137.4	136.4	136.4	136.4	136.4	137.4
85°	102.3	100.4	99.4	97.4	98.4	98.4	99.4	98.4
87.5°	55.5	52.6	52.6	51.6	53.6	52.6	52.6	51.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)