

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: P188403

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24794)
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-ST-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STRAW SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1801.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.62 / 1.55
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

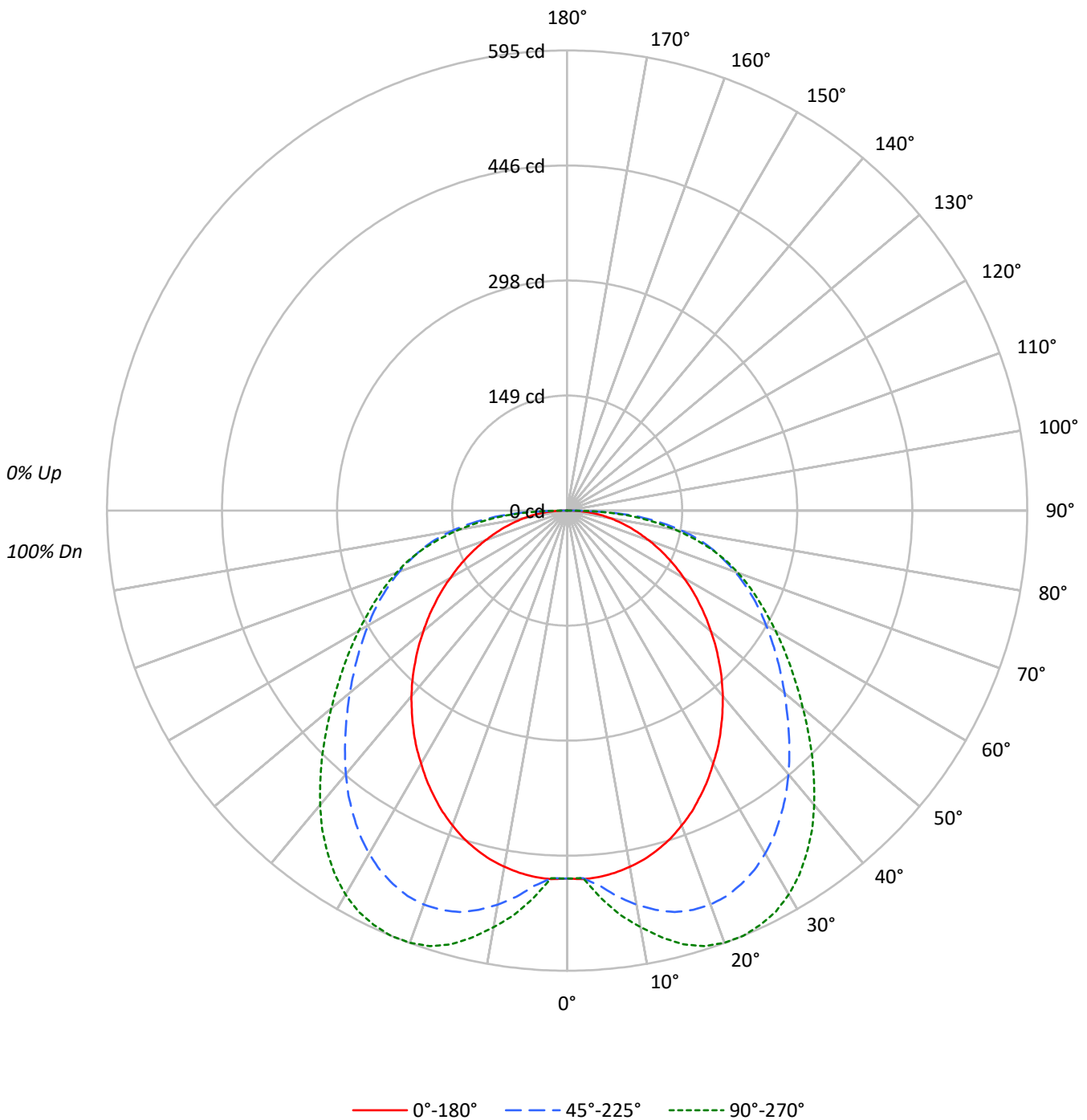
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	83	80
2	97	87	80	74	94	86	79	73	82	76	71	79	74	69	75	71	68	65
3	88	76	67	60	85	75	66	60	72	64	59	69	63	58	66	61	57	54
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46
5	73	60	50	43	71	59	50	43	56	49	42	54	47	42	52	46	42	39
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1394	1394	1394
5°	1399	1432	1479
10°	1392	1540	1627
15°	1377	1630	1761
20°	1351	1690	1854
25°	1317	1723	1911
30°	1277	1733	1939
35°	1239	1723	1932
40°	1198	1703	1901
45°	1152	1680	1856
50°	1107	1672	1815
55°	1064	1691	1803
60°	1023	1742	1824
65°	989	1835	1891
70°	960	1978	2012
75°	946	2209	2186
80°	952	2553	2396
85°	1005	3143	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.3	2.6
10°-20°	148.9	8.3
20°-30°	238.6	13.2
30°-40°	291.3	16.2
40°-50°	300.0	16.7
50°-60°	278.1	15.4
60°-70°	238.4	13.2
70°-80°	179.3	10.0
80°-90°	79.2	4.4
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°	434.7	24.1
0°-40°	726.0	40.3
0°-60°	1304.1	72.4
0°-90°	1801.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1801.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	476	476	487	498	503	45
15°	454	487	537	569	580	128
25°	407	467	533	575	591	188
35°	346	414	482	524	540	217
45°	278	346	405	437	448	215
55°	208	278	331	349	353	187
65°	143	216	265	271	273	142
75°	84	153	195	194	193	88
85°	30	71	94	86	84	32
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°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	477.0	476.4	475.7	476.4	475.7	475.7	475.0	474.4	475.7	475.7	475.7
5°	475.7	475.0	474.4	475.0	475.0	476.4	477.0	480.4	484.3	487.0	491.0
7.5°	472.4	471.7	471.1	473.1	475.7	480.4	485.7	492.3	498.3	503.6	508.2
10°	467.7	467.1	467.1	471.7	478.4	487.0	494.3	502.2	510.2	517.5	524.1
12.5°	461.8	461.8	462.4	471.1	481.0	491.6	500.3	510.2	520.2	528.8	536.7
15°	453.8	453.1	456.5	468.4	481.0	493.0	504.2	515.5	527.5	537.4	546.0
17.5°	444.5	443.9	450.5	465.1	478.4	492.3	505.6	518.2	530.8	541.4	551.3
20°	433.2	433.2	442.5	459.8	474.4	489.6	503.6	516.8	530.8	542.1	552.7
22.5°	421.3	422.0	433.9	451.8	467.7	483.7	498.3	512.9	526.8	539.4	550.0
25°	407.4	408.7	422.6	441.2	458.5	475.0	490.3	505.6	520.2	532.8	544.0
27.5°	393.4	394.8	411.4	429.9	447.8	464.4	480.4	496.3	511.5	524.1	535.4
30°	377.5	380.8	397.4	416.7	435.2	451.8	468.4	484.3	498.9	512.2	524.1
32.5°	362.9	365.6	384.1	402.7	422.0	438.6	455.1	470.4	485.0	498.3	509.5
35°	346.3	350.3	368.9	387.5	406.0	422.6	439.2	454.5	469.1	481.7	493.0
37.5°	329.7	335.1	353.0	372.2	390.1	406.7	423.3	437.9	452.5	464.4	475.0
40°	313.2	317.8	336.4	355.0	373.5	389.5	405.4	419.3	433.2	445.2	455.1
42.5°	295.9	301.2	319.8	337.7	355.6	371.5	387.5	401.4	414.7	425.3	434.6
45°	278.0	284.6	302.5	320.5	338.4	354.3	369.6	382.8	394.8	405.4	414.0
47.5°	260.7	268.0	286.0	303.9	321.1	336.4	351.6	364.9	376.2	385.5	393.4
50°	242.8	251.5	268.7	286.0	303.9	319.1	333.7	345.7	357.6	366.9	373.5
52.5°	225.6	234.2	252.1	269.4	286.6	301.9	316.5	329.1	339.7	348.3	355.6
55°	208.3	217.6	235.5	252.8	270.0	285.3	299.9	311.8	322.4	331.1	337.0
57.5°	191.7	201.7	218.9	236.9	254.1	269.4	284.0	295.9	305.9	313.8	319.8
60°	174.5	185.8	203.0	220.3	238.2	254.1	268.0	280.0	289.9	297.2	302.5
62.5°	158.6	169.8	187.1	205.0	222.9	238.8	252.8	264.7	274.0	281.3	285.3
65°	142.6	154.6	171.8	189.8	207.7	223.6	237.5	249.5	258.1	264.7	268.7
67.5°	127.4	139.3	156.6	174.5	192.4	208.3	222.3	233.5	242.2	248.1	250.8
70°	112.1	124.1	141.3	159.2	176.5	193.1	207.0	217.6	226.2	230.9	232.9
72.5°	97.5	110.1	126.7	143.3	161.2	177.1	191.1	202.4	209.0	213.0	216.3
75°	83.6	95.5	111.5	128.0	144.6	161.2	174.5	184.4	191.1	195.1	196.4
77.5°	69.7	81.6	96.9	112.1	128.7	144.0	157.2	166.5	171.8	175.2	177.1
80°	56.4	67.0	80.9	95.5	110.8	124.7	136.7	145.3	149.9	151.3	151.3
82.5°	43.8	52.4	64.4	77.0	90.2	102.8	113.5	120.1	123.4	124.1	123.4
85°	29.9	35.8	45.1	55.1	65.0	76.3	85.6	90.2	92.2	93.5	92.2
87.5°	15.9	17.9	23.2	29.2	36.5	43.8	49.8	53.1	55.1	55.1	55.7
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°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	475.7	475.7	476.4	475.7	475.7	476.4	475.7	475.7
5°	493.0	494.3	497.6	498.9	499.6	501.6	501.6	502.9
7.5°	511.5	514.9	518.2	520.8	522.8	525.5	526.1	527.5
10°	528.8	532.8	536.7	540.7	543.4	544.7	546.0	546.7
12.5°	542.7	548.0	553.3	557.3	560.6	562.6	564.6	565.3
15°	552.7	560.0	565.9	571.2	574.6	577.2	579.2	580.5
17.5°	559.3	567.3	573.9	579.9	583.9	586.5	589.2	590.5
20°	561.3	569.3	577.2	583.2	587.8	591.1	593.1	594.5
22.5°	559.3	567.9	575.9	582.5	587.2	591.1	593.1	595.1
25°	554.0	563.3	571.9	578.5	583.9	587.8	589.8	591.1
27.5°	546.0	556.0	564.6	571.2	576.6	580.5	583.2	584.5
30°	534.8	544.0	553.3	560.0	565.3	569.3	571.9	573.2
32.5°	520.8	530.1	538.7	545.4	551.3	554.7	557.3	558.6
35°	503.6	512.9	521.5	527.5	533.4	536.7	539.4	540.1
37.5°	485.0	494.3	502.2	507.6	513.5	516.2	519.5	520.2
40°	464.4	473.1	480.4	485.7	491.0	493.6	495.6	496.9
42.5°	443.2	451.2	458.5	463.1	467.1	469.7	472.4	472.4
45°	422.6	428.6	435.2	439.2	443.2	445.2	447.2	447.8
47.5°	401.4	407.4	412.7	415.3	419.3	420.6	422.0	422.6
50°	380.8	386.1	390.1	392.8	395.4	396.8	398.1	398.1
52.5°	360.9	365.6	368.9	370.2	372.9	373.5	374.2	374.9
55°	342.3	345.7	348.3	349.0	351.0	351.0	352.3	353.0
57.5°	324.4	326.4	328.4	328.4	329.7	329.7	331.1	331.7
60°	306.5	307.8	308.5	308.5	309.8	309.2	310.5	311.2
62.5°	288.6	289.3	289.3	289.3	289.9	289.9	290.6	291.3
65°	270.7	270.7	270.7	270.7	271.4	270.7	272.0	272.7
67.5°	252.8	252.1	252.1	251.5	252.8	252.1	253.4	254.1
70°	234.2	234.2	232.9	232.9	233.5	234.2	234.9	234.9
72.5°	215.6	214.3	214.3	213.6	214.3	215.0	216.3	215.6
75°	196.4	195.7	194.4	193.7	193.7	193.1	193.7	193.1
77.5°	173.8	171.8	169.2	168.5	167.2	166.5	167.2	167.9
80°	147.3	145.3	143.3	142.6	141.3	141.3	141.3	142.0
82.5°	119.4	118.1	116.1	116.1	114.8	114.8	114.8	114.1
85°	88.2	87.6	86.3	86.3	84.9	84.9	84.9	84.3
87.5°	51.8	51.8	50.4	51.1	49.1	49.1	49.1	49.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)