

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: P188407

Luminaire Tested: **22SR-LD2-19-C-UNV-L835-CD1-ST-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188407
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-LD2-19-C-UNV-L835-CD1-ST-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STRAW SKYTRIM.

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1773.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

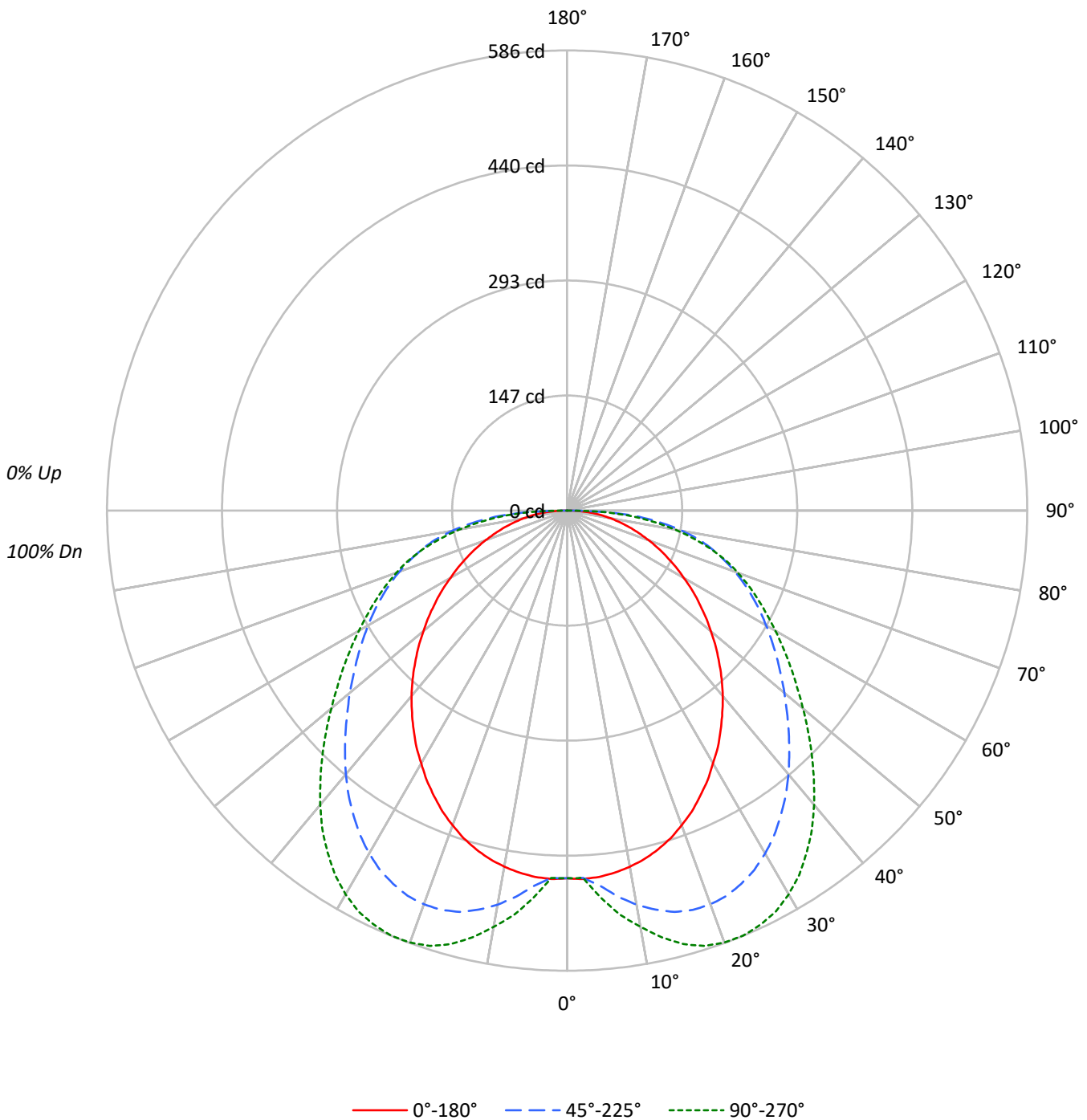
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
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°	1372	1372	1372
5°	1377	1410	1456
10°	1370	1516	1601
15°	1355	1605	1734
20°	1330	1664	1825
25°	1296	1696	1882
30°	1257	1706	1909
35°	1219	1696	1902
40°	1179	1676	1871
45°	1134	1654	1827
50°	1090	1646	1786
55°	1048	1665	1775
60°	1007	1715	1795
65°	973	1807	1861
70°	946	1947	1981
75°	932	2174	2152
80°	936	2512	2359
85°	988	3096	2790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.6	2.6
10°-20°	146.5	8.3
20°-30°	234.8	13.2
30°-40°	286.8	16.2
40°-50°	295.3	16.7
50°-60°	273.8	15.4
60°-70°	234.7	13.2
70°-80°	176.5	10.0
80°-90°	78.0	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°	427.9	24.1
0°-40°	714.8	40.3
0°-60°	1283.9	72.4
0°-90°	1773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	468	468	468	468	468	
5°	468	468	479	491	495	44
15°	447	479	529	560	572	126
25°	401	460	524	566	582	185
35°	341	408	474	516	532	213
45°	274	341	399	430	441	211
55°	205	273	326	343	348	184
65°	140	212	261	266	268	139
75°	82	151	192	191	190	87
85°	29	70	92	85	83	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°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	469.6	469.0	468.3	469.0	468.3	468.3	467.7	467.0	468.3	468.3	468.3
5°	468.3	467.7	467.0	467.7	467.7	469.0	469.6	472.9	476.8	479.4	483.3
7.5°	465.0	464.4	463.7	465.7	468.3	472.9	478.1	484.6	490.5	495.7	500.3
10°	460.5	459.8	459.8	464.4	470.9	479.4	486.6	494.4	502.3	509.5	516.0
12.5°	454.6	454.6	455.2	463.7	473.5	484.0	492.5	502.3	512.1	520.6	528.4
15°	446.8	446.1	449.4	461.1	473.5	485.3	496.4	507.5	519.3	529.1	537.5
17.5°	437.6	437.0	443.5	457.9	470.9	484.6	497.7	510.1	522.5	533.0	542.8
20°	426.5	426.5	435.7	452.6	467.0	482.0	495.7	508.8	522.5	533.6	544.1
22.5°	414.8	415.4	427.2	444.8	460.5	476.1	490.5	504.9	518.6	531.0	541.5
25°	401.0	402.3	416.1	434.3	451.3	467.7	482.7	497.7	512.1	524.5	535.6
27.5°	387.3	388.6	405.0	423.2	440.9	457.2	472.9	488.6	503.6	516.0	527.1
30°	371.6	374.9	391.2	410.2	428.5	444.8	461.1	476.8	491.2	504.2	516.0
32.5°	357.3	359.9	378.2	396.5	415.4	431.7	448.1	463.1	477.5	490.5	501.6
35°	340.9	344.9	363.2	381.4	399.7	416.1	432.4	447.4	461.8	474.2	485.3
37.5°	324.6	329.8	347.5	366.4	384.1	400.4	416.7	431.1	445.5	457.2	467.7
40°	308.3	312.9	331.1	349.4	367.7	383.4	399.1	412.8	426.5	438.3	448.1
42.5°	291.3	296.5	314.8	332.5	350.1	365.8	381.4	395.2	408.2	418.7	427.8
45°	273.7	280.2	297.8	315.5	333.1	348.8	363.8	376.9	388.6	399.1	407.6
47.5°	256.7	263.9	281.5	299.1	316.1	331.1	346.2	359.2	370.3	379.5	387.3
50°	239.1	247.5	264.5	281.5	299.1	314.2	328.5	340.3	352.0	361.2	367.7
52.5°	222.1	230.6	248.2	265.2	282.2	297.2	311.6	324.0	334.4	342.9	350.1
55°	205.1	214.2	231.9	248.9	265.8	280.9	295.2	307.0	317.4	325.9	331.8
57.5°	188.8	198.6	215.5	233.2	250.2	265.2	279.5	291.3	301.1	308.9	314.8
60°	171.8	182.9	199.9	216.8	234.5	250.2	263.9	275.6	285.4	292.6	297.8
62.5°	156.1	167.2	184.2	201.8	219.5	235.1	248.9	260.6	269.8	276.9	280.9
65°	140.4	152.2	169.2	186.8	204.4	220.1	233.8	245.6	254.1	260.6	264.5
67.5°	125.4	137.2	154.1	171.8	189.4	205.1	218.8	229.9	238.4	244.3	246.9
70°	110.4	122.1	139.1	156.8	173.7	190.1	203.8	214.2	222.7	227.3	229.3
72.5°	96.0	108.4	124.8	141.1	158.7	174.4	188.1	199.2	205.7	209.7	212.9
75°	82.3	94.1	109.7	126.1	142.4	158.7	171.8	181.6	188.1	192.0	193.3
77.5°	68.6	80.3	95.4	110.4	126.7	141.7	154.8	163.9	169.2	172.4	174.4
80°	55.5	66.0	79.7	94.1	109.1	122.8	134.5	143.0	147.6	148.9	148.9
82.5°	43.1	51.6	63.4	75.8	88.8	101.2	111.7	118.2	121.5	122.1	121.5
85°	29.4	35.3	44.4	54.2	64.0	75.1	84.3	88.8	90.8	92.1	90.8
87.5°	15.7	17.6	22.9	28.7	35.9	43.1	49.0	52.3	54.2	54.2	54.9
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°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	468.3	468.3	469.0	468.3	468.3	469.0	468.3	468.3
5°	485.3	486.6	489.9	491.2	491.8	493.8	493.8	495.1
7.5°	503.6	506.8	510.1	512.7	514.7	517.3	518.0	519.3
10°	520.6	524.5	528.4	532.3	534.9	536.2	537.5	538.2
12.5°	534.3	539.5	544.7	548.6	551.9	553.9	555.8	556.5
15°	544.1	551.3	557.1	562.4	565.6	568.2	570.2	571.5
17.5°	550.6	558.4	565.0	570.9	574.8	577.4	580.0	581.3
20°	552.6	560.4	568.2	574.1	578.7	582.0	583.9	585.2
22.5°	550.6	559.1	566.9	573.5	578.0	582.0	583.9	585.9
25°	545.4	554.5	563.0	569.5	574.8	578.7	580.7	582.0
27.5°	537.5	547.3	555.8	562.4	567.6	571.5	574.1	575.4
30°	526.4	535.6	544.7	551.3	556.5	560.4	563.0	564.3
32.5°	512.7	521.9	530.4	536.9	542.8	546.0	548.6	550.0
35°	495.7	504.9	513.4	519.3	525.1	528.4	531.0	531.7
37.5°	477.5	486.6	494.4	499.7	505.5	508.2	511.4	512.1
40°	457.2	465.7	472.9	478.1	483.3	485.9	487.9	489.2
42.5°	436.3	444.1	451.3	455.9	459.8	462.4	465.0	465.0
45°	416.1	421.9	428.5	432.4	436.3	438.3	440.2	440.9
47.5°	395.2	401.0	406.3	408.9	412.8	414.1	415.4	416.1
50°	374.9	380.1	384.1	386.7	389.3	390.6	391.9	391.9
52.5°	355.3	359.9	363.2	364.5	367.1	367.7	368.4	369.0
55°	337.0	340.3	342.9	343.6	345.5	345.5	346.8	347.5
57.5°	319.4	321.4	323.3	323.3	324.6	324.6	325.9	326.6
60°	301.8	303.1	303.7	303.7	305.0	304.4	305.7	306.3
62.5°	284.1	284.8	284.8	284.8	285.4	285.4	286.1	286.7
65°	266.5	266.5	266.5	266.5	267.1	266.5	267.8	268.4
67.5°	248.9	248.2	248.2	247.5	248.9	248.2	249.5	250.2
70°	230.6	230.6	229.3	229.3	229.9	230.6	231.2	231.2
72.5°	212.3	211.0	211.0	210.3	211.0	211.6	212.9	212.3
75°	193.3	192.7	191.4	190.7	190.7	190.1	190.7	190.1
77.5°	171.1	169.2	166.6	165.9	164.6	163.9	164.6	165.2
80°	145.0	143.0	141.1	140.4	139.1	139.1	139.1	139.8
82.5°	117.6	116.3	114.3	114.3	113.0	113.0	113.0	112.3
85°	86.9	86.2	84.9	84.9	83.6	83.6	83.6	83.0
87.5°	50.9	50.9	49.6	50.3	48.3	48.3	48.3	49.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)