

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: P188404

Luminaire Tested: **22SR-LD2-20-C-UNV-L835-CD1-ST-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188404
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-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: 1857.0 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

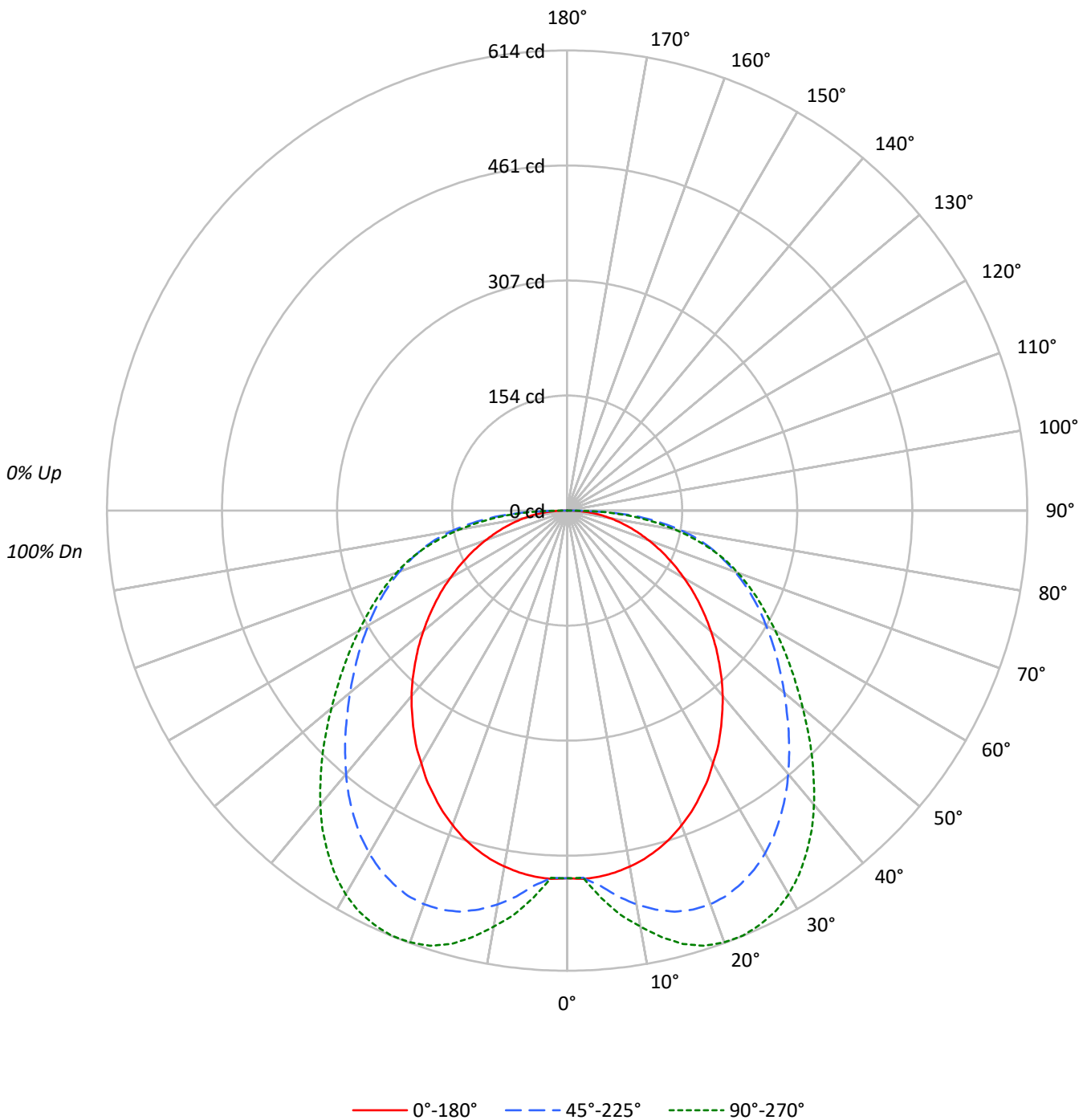
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1437	1437	1437
5°	1443	1477	1525
10°	1435	1588	1677
15°	1419	1681	1816
20°	1393	1743	1911
25°	1358	1776	1970
30°	1317	1787	2000
35°	1277	1777	1992
40°	1235	1756	1960
45°	1188	1732	1914
50°	1141	1724	1871
55°	1097	1744	1859
60°	1054	1796	1880
65°	1020	1893	1950
70°	990	2040	2075
75°	976	2277	2254
80°	980	2632	2470
85°	1035	3244	2921



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.8	2.6
10°-20°	153.5	8.3
20°-30°	246.0	13.2
30°-40°	300.4	16.2
40°-50°	309.3	16.7
50°-60°	286.7	15.4
60°-70°	245.8	13.2
70°-80°	184.9	10.0
80°-90°	81.7	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°	448.2	24.1
0°-40°	748.6	40.3
0°-60°	1344.7	72.4
0°-90°	1857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	490	490	490	490	490	
5°	490	490	502	514	518	47
15°	468	502	554	586	599	132
25°	420	481	549	593	610	193
35°	357	427	497	541	557	223
45°	287	357	418	451	462	221
55°	215	286	341	360	364	192
65°	147	222	273	279	281	146
75°	86	158	201	200	199	91
85°	31	73	96	89	87	33
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°	490.5	490.5	490.5	490.5	490.5	490.5	490.5	490.5	490.5	490.5	490.5
2.5°	491.9	491.2	490.5	491.2	490.5	490.5	489.8	489.1	490.5	490.5	490.5
5°	490.5	489.8	489.1	489.8	489.8	491.2	491.9	495.3	499.4	502.1	506.2
7.5°	487.1	486.4	485.7	487.8	490.5	495.3	500.8	507.6	513.8	519.2	524.0
10°	482.3	481.6	481.6	486.4	493.2	502.1	509.7	517.9	526.1	533.6	540.4
12.5°	476.1	476.1	476.8	485.7	496.0	506.9	515.8	526.1	536.3	545.2	553.4
15°	467.9	467.2	470.7	483.0	496.0	508.3	519.9	531.5	543.9	554.1	563.0
17.5°	458.3	457.7	464.5	479.6	493.2	507.6	521.3	534.3	547.3	558.2	568.5
20°	446.7	446.7	456.3	474.1	489.1	504.9	519.2	532.9	547.3	558.9	569.9
22.5°	434.4	435.1	447.4	465.9	482.3	498.7	513.8	528.8	543.2	556.2	567.1
25°	420.0	421.4	435.8	454.9	472.7	489.8	505.5	521.3	536.3	549.3	561.0
27.5°	405.7	407.0	424.1	443.3	461.8	478.9	495.3	511.7	527.4	540.4	552.1
30°	389.3	392.7	409.8	429.6	448.8	465.9	483.0	499.4	514.4	528.1	540.4
32.5°	374.2	376.9	396.1	415.2	435.1	452.2	469.3	485.0	500.1	513.8	525.4
35°	357.1	361.2	380.4	399.5	418.7	435.8	452.9	468.6	483.7	496.7	508.3
37.5°	340.0	345.5	363.9	383.8	402.2	419.4	436.5	451.5	466.6	478.9	489.8
40°	322.9	327.7	346.8	366.0	385.1	401.6	418.0	432.3	446.7	459.0	469.3
42.5°	305.1	310.6	329.7	348.2	366.7	383.1	399.5	413.9	427.6	438.5	448.1
45°	286.6	293.5	311.9	330.4	348.9	365.3	381.0	394.7	407.0	418.0	426.9
47.5°	268.9	276.4	294.8	313.3	331.1	346.8	362.6	376.3	387.9	397.5	405.7
50°	250.4	259.3	277.1	294.8	313.3	329.1	344.1	356.4	368.7	378.3	385.1
52.5°	232.6	241.5	260.0	277.7	295.5	311.3	326.3	339.3	350.3	359.2	366.7
55°	214.8	224.4	242.9	260.6	278.4	294.2	309.2	321.5	332.5	341.4	347.5
57.5°	197.7	208.0	225.8	244.2	262.0	277.7	292.8	305.1	315.4	323.6	329.7
60°	179.9	191.5	209.3	227.1	245.6	262.0	276.4	288.7	299.0	306.5	311.9
62.5°	163.5	175.1	192.9	211.4	229.9	246.3	260.6	273.0	282.5	290.1	294.2
65°	147.1	159.4	177.2	195.7	214.1	230.5	244.9	257.2	266.1	273.0	277.1
67.5°	131.3	143.7	161.4	179.9	198.4	214.8	229.2	240.8	249.7	255.9	258.6
70°	115.6	127.9	145.7	164.2	182.0	199.1	213.4	224.4	233.3	238.1	240.1
72.5°	100.6	113.6	130.7	147.8	166.2	182.7	197.0	208.6	215.5	219.6	223.0
75°	86.2	98.5	114.9	132.0	149.1	166.2	179.9	190.2	197.0	201.1	202.5
77.5°	71.8	84.1	99.9	115.6	132.7	148.4	162.1	171.7	177.2	180.6	182.7
80°	58.1	69.1	83.5	98.5	114.2	128.6	140.9	149.8	154.6	156.0	156.0
82.5°	45.2	54.0	66.4	79.4	93.0	106.0	117.0	123.8	127.2	127.9	127.2
85°	30.8	36.9	46.5	56.8	67.0	78.7	88.2	93.0	95.1	96.5	95.1
87.5°	16.4	18.5	23.9	30.1	37.6	45.2	51.3	54.7	56.8	56.8	57.5
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°	490.5	490.5	490.5	490.5	490.5	490.5	490.5	490.5
2.5°	490.5	490.5	491.2	490.5	490.5	491.2	490.5	490.5
5°	508.3	509.7	513.1	514.4	515.1	517.2	517.2	518.5
7.5°	527.4	530.9	534.3	537.0	539.1	541.8	542.5	543.9
10°	545.2	549.3	553.4	557.5	560.3	561.6	563.0	563.7
12.5°	559.6	565.1	570.5	574.6	578.1	580.1	582.2	582.9
15°	569.9	577.4	583.5	589.0	592.4	595.2	597.2	598.6
17.5°	576.7	584.9	591.7	597.9	602.0	604.7	607.5	608.8
20°	578.7	587.0	595.2	601.3	606.1	609.5	611.6	613.0
22.5°	576.7	585.6	593.8	600.6	605.4	609.5	611.6	613.6
25°	571.2	580.8	589.7	596.5	602.0	606.1	608.2	609.5
27.5°	563.0	573.3	582.2	589.0	594.5	598.6	601.3	602.7
30°	551.4	561.0	570.5	577.4	582.9	587.0	589.7	591.1
32.5°	537.0	546.6	555.5	562.3	568.5	571.9	574.6	576.0
35°	519.2	528.8	537.7	543.9	550.0	553.4	556.2	556.9
37.5°	500.1	509.7	517.9	523.3	529.5	532.2	535.6	536.3
40°	478.9	487.8	495.3	500.8	506.2	509.0	511.0	512.4
42.5°	457.0	465.2	472.7	477.5	481.6	484.3	487.1	487.1
45°	435.8	441.9	448.8	452.9	457.0	459.0	461.1	461.8
47.5°	413.9	420.0	425.5	428.2	432.3	433.7	435.1	435.8
50°	392.7	398.1	402.2	405.0	407.7	409.1	410.5	410.5
52.5°	372.1	376.9	380.4	381.7	384.5	385.1	385.8	386.5
55°	353.0	356.4	359.2	359.8	361.9	361.9	363.3	363.9
57.5°	334.5	336.6	338.6	338.6	340.0	340.0	341.4	342.0
60°	316.1	317.4	318.1	318.1	319.5	318.8	320.2	320.8
62.5°	297.6	298.3	298.3	298.3	299.0	299.0	299.6	300.3
65°	279.1	279.1	279.1	279.1	279.8	279.1	280.5	281.2
67.5°	260.6	260.0	260.0	259.3	260.6	260.0	261.3	262.0
70°	241.5	241.5	240.1	240.1	240.8	241.5	242.2	242.2
72.5°	222.3	221.0	221.0	220.3	221.0	221.6	223.0	222.3
75°	202.5	201.8	200.4	199.8	199.8	199.1	199.8	199.1
77.5°	179.2	177.2	174.4	173.8	172.4	171.7	172.4	173.1
80°	151.9	149.8	147.8	147.1	145.7	145.7	145.7	146.4
82.5°	123.1	121.8	119.7	119.7	118.3	118.3	118.3	117.7
85°	91.0	90.3	88.9	88.9	87.6	87.6	87.6	86.9
87.5°	53.4	53.4	52.0	52.7	50.6	50.6	50.6	51.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)