

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: P188369

Luminaire Tested: **22SR-LD2-29-C-UNV-L835-CD1-SO-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188369
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-L835-CD1-SO-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2049.0 lumens
Efficiency: N/A
Efficacy: 87.6 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

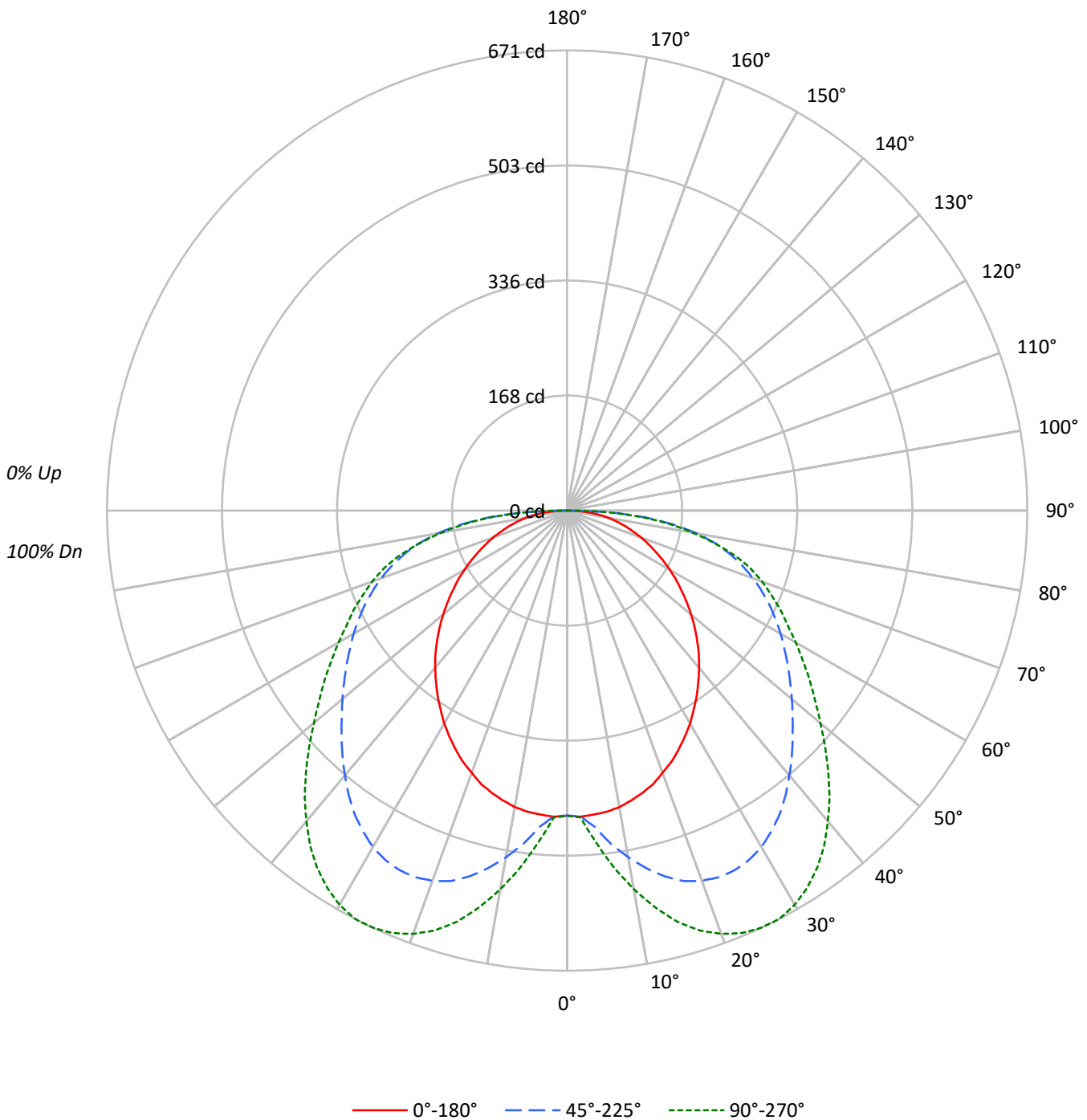
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1304	1304	1304
5°	1309	1362	1430
10°	1306	1527	1667
15°	1292	1676	1883
20°	1268	1791	2048
25°	1243	1870	2169
30°	1213	1916	2246
35°	1178	1933	2274
40°	1145	1928	2262
45°	1111	1927	2231
50°	1076	1950	2198
55°	1042	2006	2206
60°	1012	2107	2254
65°	989	2256	2382
70°	981	2469	2590
75°	989	2785	2865
80°	1034	3236	3152
85°	1113	3816	3681



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.6	2.2
10°-20°	152.3	7.4
20°-30°	256.1	12.5
30°-40°	322.8	15.8
40°-50°	340.4	16.6
50°-60°	324.3	15.8
60°-70°	287.0	14.0
70°-80°	222.9	10.9
80°-90°	97.5	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°	454.1	22.2
0°-40°	776.9	37.9
0°-60°	1441.6	70.4
0°-90°	2049.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2049.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	445	445	445	445	445	
5°	445	446	463	480	486	42
15°	426	476	552	603	621	120
25°	385	474	578	646	671	177
35°	329	433	540	611	636	206
45°	268	370	465	520	538	207
55°	204	307	393	425	432	183
65°	143	247	325	338	344	142
75°	87	181	246	251	253	92
85°	33	82	114	110	110	35
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°	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9
2.5°	446.9	446.9	445.9	445.9	445.9	445.9	444.9	444.9	445.9	445.9	445.9
5°	444.9	444.9	444.9	444.9	444.9	446.9	448.9	453.9	457.9	463.0	468.0
7.5°	442.9	441.9	441.9	443.9	447.9	454.9	463.0	473.0	482.1	490.1	497.1
10°	438.9	438.9	438.9	444.9	454.9	468.0	480.0	491.1	502.1	513.2	524.2
12.5°	432.8	432.8	434.9	446.9	462.0	478.0	492.1	507.2	522.2	534.3	547.3
15°	425.8	425.8	430.8	447.9	467.0	485.1	503.1	520.2	537.3	552.4	566.4
17.5°	417.8	416.8	426.8	447.9	469.0	490.1	510.2	530.3	549.3	566.4	581.5
20°	406.7	407.7	421.8	445.9	469.0	493.1	514.2	535.3	556.4	574.4	590.5
22.5°	396.7	398.7	415.8	441.9	467.0	492.1	515.2	537.3	559.4	578.5	595.5
25°	384.6	386.6	406.7	434.9	461.0	487.1	511.2	535.3	557.4	578.5	596.5
27.5°	371.6	374.6	397.7	425.8	453.9	480.0	505.2	529.3	553.4	574.4	592.5
30°	358.5	362.5	387.7	416.8	443.9	471.0	497.1	521.2	545.3	566.4	585.5
32.5°	343.5	348.5	375.6	404.7	432.8	459.0	485.1	510.2	533.3	554.4	573.4
35°	329.4	335.4	362.5	391.7	419.8	446.9	472.0	497.1	519.2	540.3	559.4
37.5°	314.3	320.4	348.5	377.6	404.7	431.8	456.9	481.0	503.1	523.2	541.3
40°	299.3	306.3	333.4	362.5	388.7	415.8	439.9	464.0	485.1	504.1	522.2
42.5°	284.2	292.2	319.4	347.5	373.6	399.7	423.8	446.9	467.0	485.1	501.1
45°	268.1	277.2	303.3	331.4	357.5	382.6	406.7	428.8	447.9	465.0	481.0
47.5°	252.1	262.1	288.2	316.3	341.5	366.6	388.7	410.7	428.8	445.9	460.0
50°	236.0	247.1	273.2	300.3	325.4	350.5	372.6	393.7	410.7	427.8	440.9
52.5°	219.9	233.0	259.1	285.2	310.3	334.4	356.5	376.6	393.7	409.7	421.8
55°	203.9	217.9	244.0	270.2	295.3	319.4	340.4	361.5	377.6	392.7	403.7
57.5°	188.8	202.9	229.0	255.1	280.2	304.3	325.4	345.5	361.5	375.6	386.6
60°	172.7	188.8	213.9	240.0	265.1	289.2	310.3	330.4	346.5	359.5	368.6
62.5°	157.7	173.7	199.9	225.0	250.1	274.2	295.3	315.3	330.4	342.5	350.5
65°	142.6	159.7	184.8	209.9	235.0	259.1	280.2	299.3	314.3	325.4	332.4
67.5°	128.5	145.6	170.7	194.8	219.9	243.0	265.1	283.2	296.3	307.3	312.3
70°	114.5	131.6	155.7	179.8	203.9	227.0	248.1	266.1	279.2	288.2	293.2
72.5°	100.4	117.5	140.6	163.7	187.8	209.9	231.0	248.1	260.1	268.1	272.2
75°	87.4	103.4	125.5	147.6	169.7	191.8	211.9	228.0	239.0	246.0	250.1
77.5°	74.3	90.4	110.5	130.6	151.6	172.7	191.8	205.9	216.9	221.9	226.0
80°	61.3	75.3	93.4	111.5	131.6	149.6	167.7	179.8	188.8	191.8	192.8
82.5°	48.2	59.3	74.3	89.4	106.5	122.5	137.6	146.6	154.7	155.7	156.7
85°	33.1	40.2	51.2	62.3	75.3	88.4	100.4	107.5	113.5	113.5	114.5
87.5°	17.1	19.1	24.1	31.1	39.2	46.2	55.2	58.2	62.3	63.3	63.3
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°	444.9	444.9	444.9	444.9	444.9	444.9	444.9	444.9
2.5°	446.9	446.9	446.9	447.9	447.9	447.9	447.9	447.9
5°	472.0	475.0	479.0	481.0	483.1	485.1	486.1	486.1
7.5°	502.1	507.2	513.2	517.2	520.2	523.2	525.2	525.2
10°	531.3	539.3	544.3	551.3	555.4	557.4	560.4	560.4
12.5°	556.4	565.4	573.4	581.5	585.5	588.5	592.5	592.5
15°	577.5	589.5	598.5	607.6	612.6	616.6	619.6	620.6
17.5°	594.5	606.6	616.6	626.7	632.7	637.7	640.7	641.7
20°	604.6	618.6	629.7	639.7	646.8	652.8	655.8	656.8
22.5°	611.6	625.7	637.7	648.8	656.8	662.8	665.8	666.8
25°	612.6	627.7	640.7	651.8	660.8	666.8	669.9	670.9
27.5°	609.6	625.7	638.7	650.8	659.8	665.8	669.9	670.9
30°	602.6	618.6	632.7	644.7	652.8	659.8	662.8	663.8
32.5°	590.5	606.6	620.6	631.7	640.7	647.8	650.8	651.8
35°	576.5	591.5	604.6	616.6	624.7	631.7	635.7	635.7
37.5°	557.4	572.4	585.5	596.5	604.6	611.6	614.6	615.6
40°	537.3	551.3	563.4	574.4	582.5	588.5	591.5	591.5
42.5°	516.2	530.3	541.3	550.3	557.4	563.4	565.4	566.4
45°	494.1	506.2	516.2	524.2	530.3	535.3	537.3	538.3
47.5°	473.0	484.1	493.1	500.1	505.2	508.2	509.2	510.2
50°	451.9	462.0	469.0	475.0	478.0	481.0	482.1	482.1
52.5°	431.8	440.9	445.9	449.9	452.9	455.9	455.9	455.9
55°	412.8	419.8	423.8	426.8	428.8	430.8	431.8	431.8
57.5°	393.7	398.7	401.7	404.7	405.7	406.7	406.7	407.7
60°	374.6	378.6	380.6	382.6	382.6	383.6	384.6	384.6
62.5°	355.5	357.5	359.5	360.5	360.5	362.5	362.5	362.5
65°	335.4	337.4	338.4	338.4	339.4	341.5	341.5	343.5
67.5°	315.3	316.3	316.3	317.4	318.4	320.4	320.4	322.4
70°	295.3	296.3	295.3	297.3	297.3	299.3	300.3	302.3
72.5°	274.2	274.2	274.2	275.2	276.2	278.2	279.2	280.2
75°	250.1	251.1	251.1	251.1	250.1	251.1	251.1	253.1
77.5°	222.9	220.9	218.9	218.9	216.9	217.9	217.9	219.9
80°	189.8	187.8	185.8	185.8	183.8	185.8	186.8	186.8
82.5°	153.7	152.6	150.6	150.6	149.6	149.6	149.6	150.6
85°	112.5	111.5	109.5	109.5	108.5	108.5	109.5	109.5
87.5°	62.3	61.3	60.3	60.3	58.2	59.3	61.3	60.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)