

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: P188374

Luminaire Tested: **22SR-LD2-25-C-UNV-L835-CD1-SO-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188374
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-LD2-25-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: 1755.0 lumens
Efficiency: N/A
Efficacy: 89.5 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

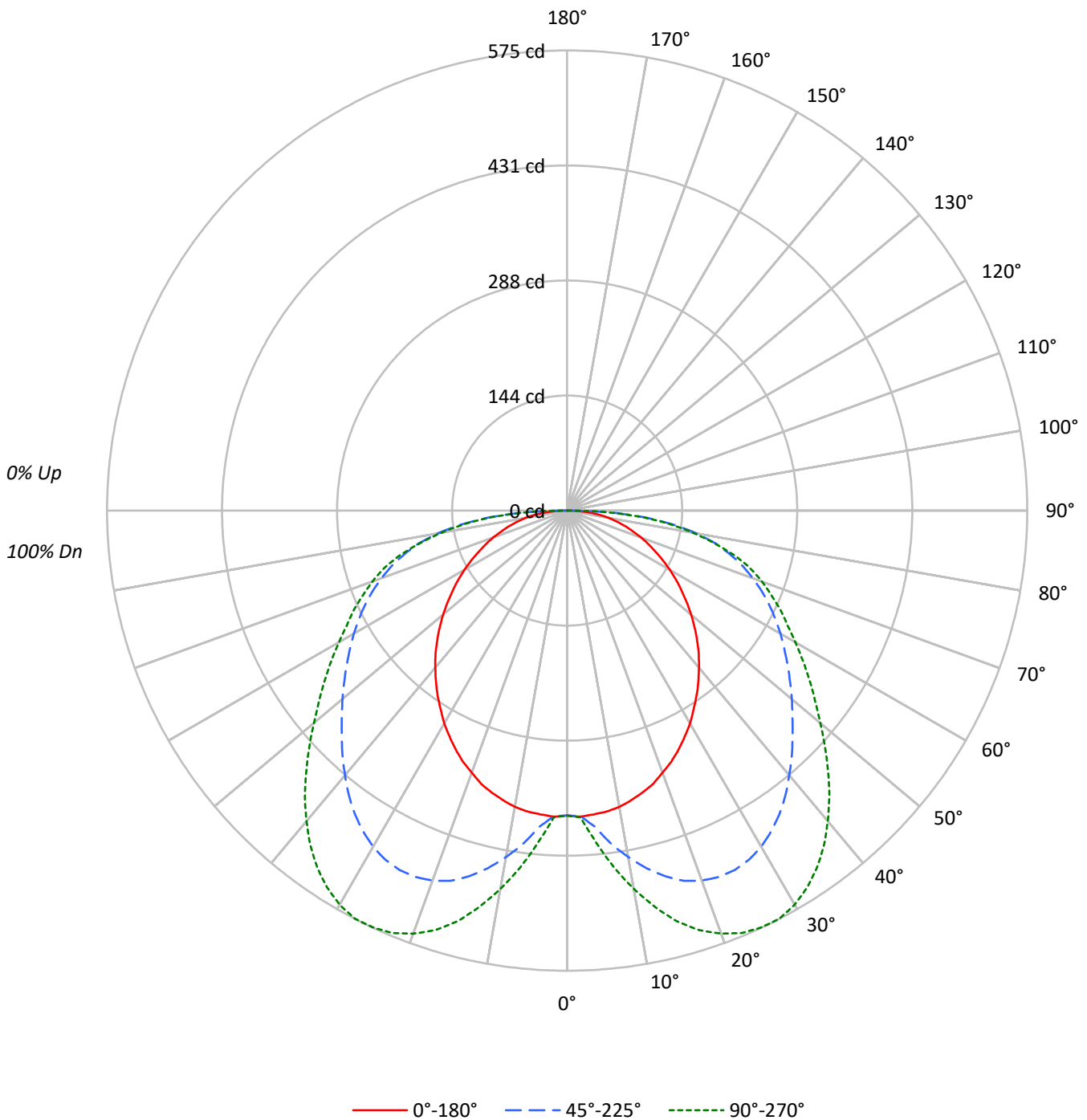
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1117	1117	1117
5°	1121	1166	1224
10°	1118	1308	1428
15°	1106	1435	1613
20°	1086	1534	1754
25°	1065	1602	1858
30°	1039	1641	1924
35°	1009	1655	1948
40°	980	1652	1938
45°	952	1650	1911
50°	921	1670	1882
55°	892	1718	1890
60°	867	1804	1930
65°	847	1932	2040
70°	840	2115	2218
75°	847	2385	2454
80°	886	2772	2700
85°	955	3268	3153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	2.2
10°-20°	130.5	7.4
20°-30°	219.4	12.5
30°-40°	276.5	15.8
40°-50°	291.5	16.6
50°-60°	277.8	15.8
60°-70°	245.8	14.0
70°-80°	190.9	10.9
80°-90°	83.5	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°	389.0	22.2
0°-40°	665.4	37.9
0°-60°	1234.8	70.4
0°-90°	1755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1755.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	381	381	381	381	381	
5°	381	382	396	411	416	36
15°	365	408	473	517	532	103
25°	329	406	496	554	575	152
35°	282	371	463	523	544	176
45°	230	317	398	446	461	177
55°	175	263	336	364	370	156
65°	122	212	279	290	294	121
75°	75	155	211	215	217	79
85°	28	70	97	94	94	30
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°	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1
2.5°	382.8	382.8	381.9	381.9	381.9	381.9	381.1	381.1	381.9	381.9	381.9
5°	381.1	381.1	381.1	381.1	381.1	382.8	384.5	388.8	392.2	396.5	400.8
7.5°	379.3	378.5	378.5	380.2	383.6	389.7	396.5	405.1	412.9	419.8	425.8
10°	375.9	375.9	375.9	381.1	389.7	400.8	411.2	420.6	430.1	439.6	449.0
12.5°	370.7	370.7	372.5	382.8	395.7	409.4	421.5	434.4	447.3	457.6	468.8
15°	364.7	364.7	369.0	383.6	400.0	415.5	430.9	445.6	460.2	473.1	485.1
17.5°	357.8	357.0	365.6	383.6	401.7	419.8	437.0	454.2	470.5	485.1	498.0
20°	348.4	349.2	361.3	381.9	401.7	422.3	440.4	458.5	476.5	492.0	505.8
22.5°	339.8	341.5	356.1	378.5	400.0	421.5	441.3	460.2	479.1	495.5	510.1
25°	329.4	331.2	348.4	372.5	394.8	417.2	437.8	458.5	477.4	495.5	510.9
27.5°	318.3	320.8	340.6	364.7	388.8	411.2	432.7	453.3	474.0	492.0	507.5
30°	307.1	310.5	332.0	357.0	380.2	403.4	425.8	446.4	467.1	485.1	501.5
32.5°	294.2	298.5	321.7	346.7	370.7	393.1	415.5	437.0	456.8	474.8	491.2
35°	282.1	287.3	310.5	335.5	359.6	382.8	404.3	425.8	444.7	462.8	479.1
37.5°	269.2	274.4	298.5	323.4	346.7	369.9	391.4	412.0	430.9	448.2	463.6
40°	256.3	262.4	285.6	310.5	332.9	356.1	376.8	397.4	415.5	431.8	447.3
42.5°	243.4	250.3	273.5	297.6	320.0	342.4	363.0	382.8	400.0	415.5	429.2
45°	229.7	237.4	259.8	283.9	306.2	327.7	348.4	367.3	383.6	398.3	412.0
47.5°	215.9	224.5	246.9	271.0	292.5	314.0	332.9	351.8	367.3	381.9	394.0
50°	202.1	211.6	234.0	257.2	278.7	300.2	319.1	337.2	351.8	366.4	377.6
52.5°	188.4	199.6	221.9	244.3	265.8	286.4	305.4	322.6	337.2	351.0	361.3
55°	174.6	186.7	209.0	231.4	252.9	273.5	291.6	309.7	323.4	336.3	345.8
57.5°	161.7	173.8	196.1	218.5	240.0	260.6	278.7	295.9	309.7	321.7	331.2
60°	148.0	161.7	183.2	205.6	227.1	247.7	265.8	283.0	296.8	307.9	315.7
62.5°	135.0	148.8	171.2	192.7	214.2	234.8	252.9	270.1	283.0	293.3	300.2
65°	122.1	136.8	158.3	179.8	201.3	221.9	240.0	256.3	269.2	278.7	284.7
67.5°	110.1	124.7	146.2	166.9	188.4	208.2	227.1	242.6	253.8	263.2	267.5
70°	98.1	112.7	133.3	154.0	174.6	194.4	212.5	227.9	239.1	246.9	251.2
72.5°	86.0	100.6	120.4	140.2	160.9	179.8	197.8	212.5	222.8	229.7	233.1
75°	74.8	88.6	107.5	126.4	145.4	164.3	181.5	195.3	204.7	210.7	214.2
77.5°	63.7	77.4	94.6	111.8	129.9	148.0	164.3	176.3	185.8	190.1	193.5
80°	52.5	64.5	80.0	95.5	112.7	128.2	143.6	154.0	161.7	164.3	165.2
82.5°	41.3	50.8	63.7	76.6	91.2	104.9	117.8	125.6	132.5	133.3	134.2
85°	28.4	34.4	43.9	53.3	64.5	75.7	86.0	92.0	97.2	97.2	98.1
87.5°	14.6	16.3	20.6	26.7	33.5	39.6	47.3	49.9	53.3	54.2	54.2
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°	381.1	381.1	381.1	381.1	381.1	381.1	381.1	381.1
2.5°	382.8	382.8	382.8	383.6	383.6	383.6	383.6	383.6
5°	404.3	406.9	410.3	412.0	413.7	415.5	416.3	416.3
7.5°	430.1	434.4	439.6	443.0	445.6	448.2	449.9	449.9
10°	455.0	461.9	466.2	472.2	475.7	477.4	480.0	480.0
12.5°	476.5	484.3	491.2	498.0	501.5	504.1	507.5	507.5
15°	494.6	504.9	512.7	520.4	524.7	528.1	530.7	531.6
17.5°	509.2	519.5	528.1	536.8	541.9	546.2	548.8	549.7
20°	517.8	529.9	539.3	547.9	554.0	559.1	561.7	562.6
22.5°	523.8	535.9	546.2	555.7	562.6	567.7	570.3	571.2
25°	524.7	537.6	548.8	558.3	566.0	571.2	573.7	574.6
27.5°	522.1	535.9	547.1	557.4	565.1	570.3	573.7	574.6
30°	516.1	529.9	541.9	552.2	559.1	565.1	567.7	568.6
32.5°	505.8	519.5	531.6	541.1	548.8	554.8	557.4	558.3
35°	493.7	506.6	517.8	528.1	535.0	541.1	544.5	544.5
37.5°	477.4	490.3	501.5	510.9	517.8	523.8	526.4	527.3
40°	460.2	472.2	482.6	492.0	498.9	504.1	506.6	506.6
42.5°	442.1	454.2	463.6	471.4	477.4	482.6	484.3	485.1
45°	423.2	433.5	442.1	449.0	454.2	458.5	460.2	461.1
47.5°	405.1	414.6	422.3	428.4	432.7	435.2	436.1	437.0
50°	387.1	395.7	401.7	406.9	409.4	412.0	412.9	412.9
52.5°	369.9	377.6	381.9	385.4	387.9	390.5	390.5	390.5
55°	353.5	359.6	363.0	365.6	367.3	369.0	369.9	369.9
57.5°	337.2	341.5	344.1	346.7	347.5	348.4	348.4	349.2
60°	320.8	324.3	326.0	327.7	327.7	328.6	329.4	329.4
62.5°	304.5	306.2	307.9	308.8	308.8	310.5	310.5	310.5
65°	287.3	289.0	289.9	289.9	290.7	292.5	292.5	294.2
67.5°	270.1	271.0	271.0	271.8	272.7	274.4	274.4	276.1
70°	252.9	253.8	252.9	254.6	254.6	256.3	257.2	258.9
72.5°	234.8	234.8	234.8	235.7	236.5	238.3	239.1	240.0
75°	214.2	215.0	215.0	215.0	214.2	215.0	215.0	216.8
77.5°	191.0	189.2	187.5	187.5	185.8	186.7	186.7	188.4
80°	162.6	160.9	159.1	159.1	157.4	159.1	160.0	160.0
82.5°	131.6	130.7	129.0	129.0	128.2	128.2	128.2	129.0
85°	96.3	95.5	93.8	93.8	92.9	92.9	93.8	93.8
87.5°	53.3	52.5	51.6	51.6	49.9	50.8	52.5	51.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)