

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: P188420

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33586)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-29-C-UNV-L835-CD1-TB-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1866.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 2.03 / 1.86
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

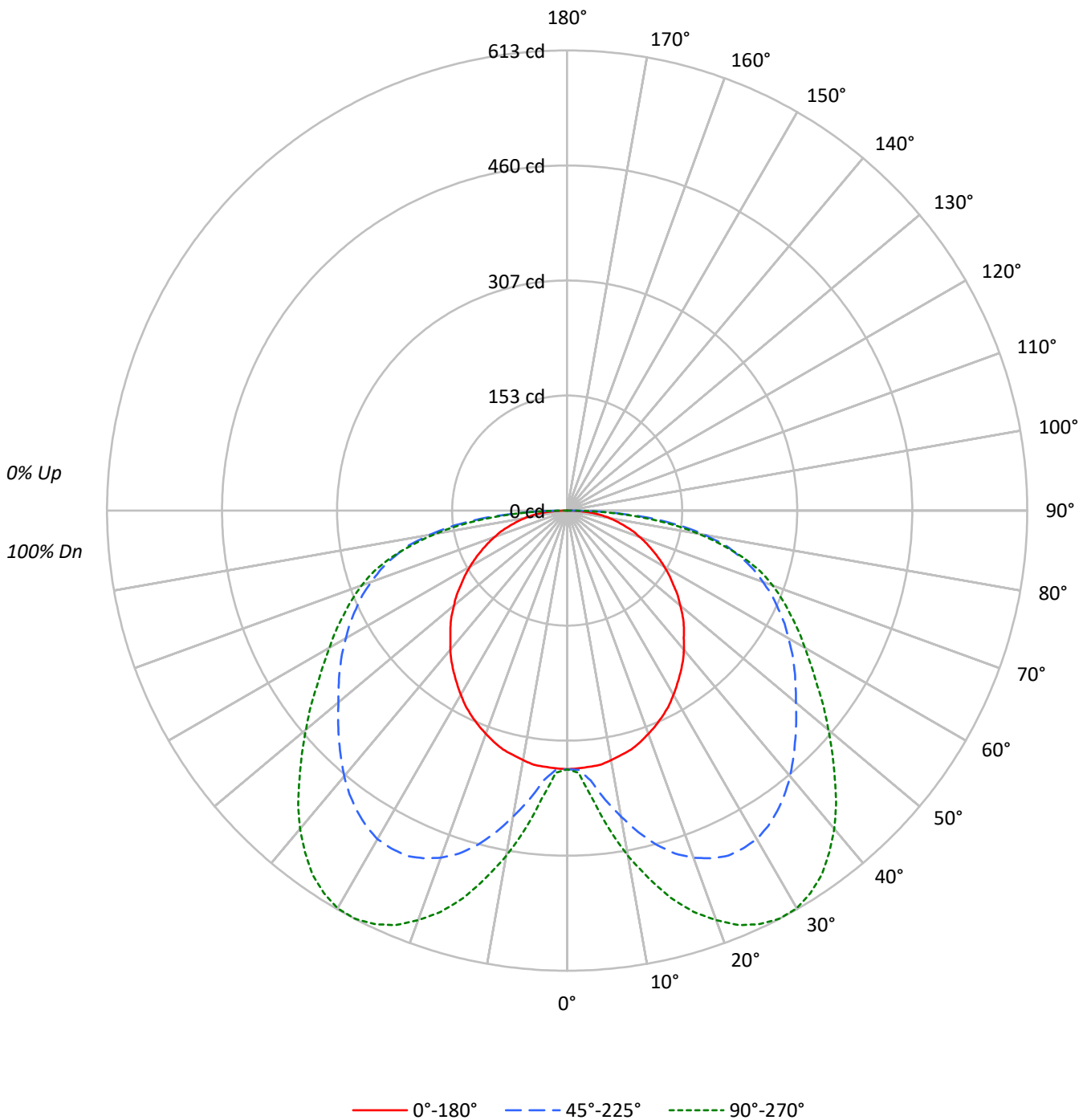
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	101	95	91	104	98	93	89	94	90	86	90	87	84	86	84	81	79
2	95	86	78	71	93	84	77	70	80	74	69	77	72	67	74	69	66	63
3	86	74	65	58	83	73	64	57	69	62	56	67	60	55	64	59	54	52
4	78	65	55	48	76	64	54	47	61	53	47	59	52	46	56	50	45	43
5	72	58	48	40	69	56	47	40	54	46	40	52	45	39	50	44	39	36
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	31
7	61	46	37	30	59	45	37	30	44	36	30	42	35	30	41	34	29	27
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	927	927	927
5°	925	974	1039
10°	922	1131	1276
15°	918	1285	1489
20°	906	1410	1663
25°	895	1506	1805
30°	880	1570	1901
35°	865	1604	1944
40°	850	1623	1944
45°	837	1636	1919
50°	824	1665	1901
55°	811	1734	1909
60°	806	1833	1968
65°	800	1976	2092
70°	806	2182	2292
75°	826	2486	2538
80°	888	2879	2755
85°	960	3319	3007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	1.9
10°-20°	126.9	6.8
20°-30°	223.0	12.0
30°-40°	289.4	15.5
40°-50°	310.7	16.7
50°-60°	301.5	16.2
60°-70°	272.3	14.6
70°-80°	214.5	11.5
80°-90°	91.5	4.9
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°	386.0	20.7
0°-40°	675.4	36.2
0°-60°	1287.6	69.0
0°-90°	1866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1866.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	345	345	345	345	345	
5°	343	346	361	379	385	33
15°	330	381	461	516	534	93
25°	301	394	507	582	608	139
35°	263	372	488	566	592	165
45°	220	326	430	487	504	170
55°	173	279	370	402	407	155
65°	126	232	310	325	328	125
75°	79	174	239	243	244	84
85°	31	78	108	100	97	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°	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6
2.5°	343.6	343.6	343.6	343.6	344.6	343.6	344.6	345.6	345.6	345.6	346.6
5°	342.6	343.6	343.6	343.6	344.6	346.6	348.6	352.6	357.6	360.6	364.7
7.5°	341.5	341.5	341.5	343.6	347.6	354.6	362.6	371.7	380.7	388.8	396.8
10°	337.5	338.5	339.5	345.6	354.6	366.7	379.7	392.8	402.8	413.9	424.9
12.5°	333.5	334.5	338.5	348.6	363.6	379.7	394.8	410.9	426.9	439.0	453.1
15°	329.5	330.5	336.5	352.6	371.7	389.8	408.9	427.9	444.0	461.1	476.2
17.5°	323.5	324.5	334.5	355.6	376.7	398.8	419.9	442.0	461.1	479.2	495.2
20°	316.4	318.4	331.5	355.6	379.7	403.8	427.9	451.0	472.1	492.2	511.3
22.5°	309.4	312.4	328.5	355.6	381.7	407.8	434.0	458.1	480.2	501.3	521.4
25°	301.4	304.4	324.5	353.6	380.7	407.8	436.0	461.1	484.2	507.3	527.4
27.5°	293.3	297.3	319.4	348.6	377.7	405.8	434.0	460.1	484.2	507.3	529.4
30°	283.3	288.3	313.4	343.6	372.7	401.8	429.9	457.1	481.2	505.3	526.4
32.5°	273.2	279.3	305.4	335.5	365.7	394.8	422.9	450.0	474.1	498.3	520.4
35°	263.2	270.2	297.3	327.5	357.6	385.7	413.9	441.0	465.1	488.2	510.3
37.5°	253.1	260.2	287.3	317.4	347.6	375.7	402.8	428.9	454.1	476.2	497.3
40°	242.1	250.1	278.3	307.4	336.5	364.7	390.8	416.9	440.0	462.1	481.2
42.5°	230.0	240.1	267.2	296.3	324.5	351.6	377.7	402.8	425.9	446.0	464.1
45°	220.0	229.0	256.2	285.3	312.4	339.5	365.7	389.8	410.9	429.9	447.0
47.5°	208.9	219.0	245.1	274.2	301.4	326.5	352.6	374.7	395.8	413.9	429.9
50°	196.9	208.9	234.1	262.2	290.3	315.4	340.5	361.6	381.7	397.8	412.9
52.5°	185.8	197.9	224.0	251.1	278.3	304.4	326.5	348.6	367.7	383.7	396.8
55°	172.8	187.9	213.0	240.1	266.2	292.3	315.4	336.5	354.6	369.7	381.7
57.5°	161.7	176.8	201.9	229.0	255.2	280.3	303.4	323.5	341.5	355.6	365.7
60°	149.7	165.8	190.9	218.0	243.1	268.2	291.3	311.4	327.5	340.5	350.6
62.5°	137.6	154.7	179.8	205.9	231.0	256.2	279.3	298.4	313.4	326.5	334.5
65°	125.6	142.6	168.8	193.9	219.0	244.1	265.2	284.3	299.4	310.4	318.4
67.5°	114.5	131.6	156.7	180.8	206.9	230.0	252.1	270.2	284.3	295.3	301.4
70°	102.5	120.5	143.7	167.8	192.9	216.0	237.1	254.2	268.2	277.3	283.3
72.5°	92.4	108.5	130.6	153.7	177.8	200.9	221.0	239.1	251.1	260.2	264.2
75°	79.4	96.4	117.5	139.6	162.7	184.8	203.9	220.0	232.1	239.1	243.1
77.5°	68.3	85.4	104.5	123.6	145.7	166.8	184.8	199.9	211.0	217.0	219.0
80°	57.3	71.3	88.4	106.5	125.6	144.7	161.7	174.8	183.8	185.8	186.8
82.5°	45.2	56.3	70.3	86.4	102.5	117.5	132.6	141.6	149.7	150.7	150.7
85°	31.1	38.2	48.2	59.3	71.3	84.4	95.4	102.5	105.5	107.5	107.5
87.5°	16.1	19.1	24.1	28.1	35.2	44.2	50.2	51.2	54.2	55.3	57.3
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°	344.6	344.6	344.6	344.6	344.6	344.6	344.6	344.6
2.5°	347.6	347.6	348.6	348.6	348.6	349.6	349.6	349.6
5°	369.7	372.7	376.7	380.7	381.7	384.7	384.7	384.7
7.5°	401.8	407.8	413.9	418.9	422.9	423.9	425.9	427.9
10°	435.0	442.0	451.0	456.1	459.1	463.1	464.1	467.1
12.5°	464.1	474.1	482.2	490.2	495.2	499.3	500.3	501.3
15°	488.2	501.3	512.3	520.4	525.4	529.4	533.4	534.4
17.5°	510.3	523.4	534.4	543.5	551.5	556.5	558.5	560.5
20°	527.4	541.5	553.5	563.6	571.6	576.6	579.6	580.6
22.5°	539.4	554.5	567.6	578.6	585.7	592.7	595.7	597.7
25°	546.5	562.5	576.6	587.7	596.7	602.7	606.7	607.8
27.5°	548.5	565.6	579.6	591.7	600.7	606.7	610.8	612.8
30°	546.5	563.6	578.6	590.7	599.7	605.7	609.8	611.8
32.5°	539.4	556.5	571.6	583.6	592.7	598.7	601.7	603.7
35°	528.4	545.5	560.5	571.6	579.6	586.7	589.7	591.7
37.5°	515.3	531.4	544.5	555.5	562.5	568.6	572.6	573.6
40°	498.3	513.3	525.4	536.4	543.5	548.5	551.5	553.5
42.5°	480.2	493.2	504.3	513.3	521.4	526.4	529.4	530.4
45°	462.1	473.1	483.2	491.2	496.2	501.3	503.3	504.3
47.5°	443.0	454.1	462.1	469.1	473.1	476.2	478.2	479.2
50°	424.9	434.0	441.0	446.0	449.0	452.0	454.1	454.1
52.5°	406.8	414.9	419.9	423.9	427.9	429.9	431.0	431.0
55°	390.8	395.8	400.8	402.8	403.8	404.8	406.8	406.8
57.5°	373.7	377.7	380.7	382.7	383.7	385.7	385.7	385.7
60°	356.6	359.6	360.6	362.6	363.6	364.7	365.7	365.7
62.5°	339.5	341.5	343.6	343.6	344.6	346.6	346.6	347.6
65°	321.5	323.5	324.5	325.5	326.5	327.5	328.5	328.5
67.5°	304.4	305.4	305.4	306.4	307.4	309.4	310.4	310.4
70°	285.3	285.3	285.3	286.3	287.3	289.3	290.3	291.3
72.5°	265.2	265.2	265.2	266.2	267.2	269.2	270.2	270.2
75°	243.1	243.1	242.1	243.1	242.1	243.1	242.1	244.1
77.5°	217.0	214.0	213.0	212.0	210.0	211.0	210.0	211.0
80°	184.8	181.8	178.8	177.8	177.8	176.8	175.8	177.8
82.5°	147.7	144.7	142.6	141.6	141.6	141.6	142.6	140.6
85°	105.5	102.5	100.5	100.5	98.4	98.4	98.4	97.4
87.5°	52.2	54.2	53.2	53.2	50.2	48.2	49.2	49.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)