

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: P188419

Luminaire Tested: **22SR-LD2-29-C-UNV-L830-CD1-TB-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188419
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-L830-CD1-TB-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1810.0 lumens
Efficiency: N/A
Efficacy: 77.4 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

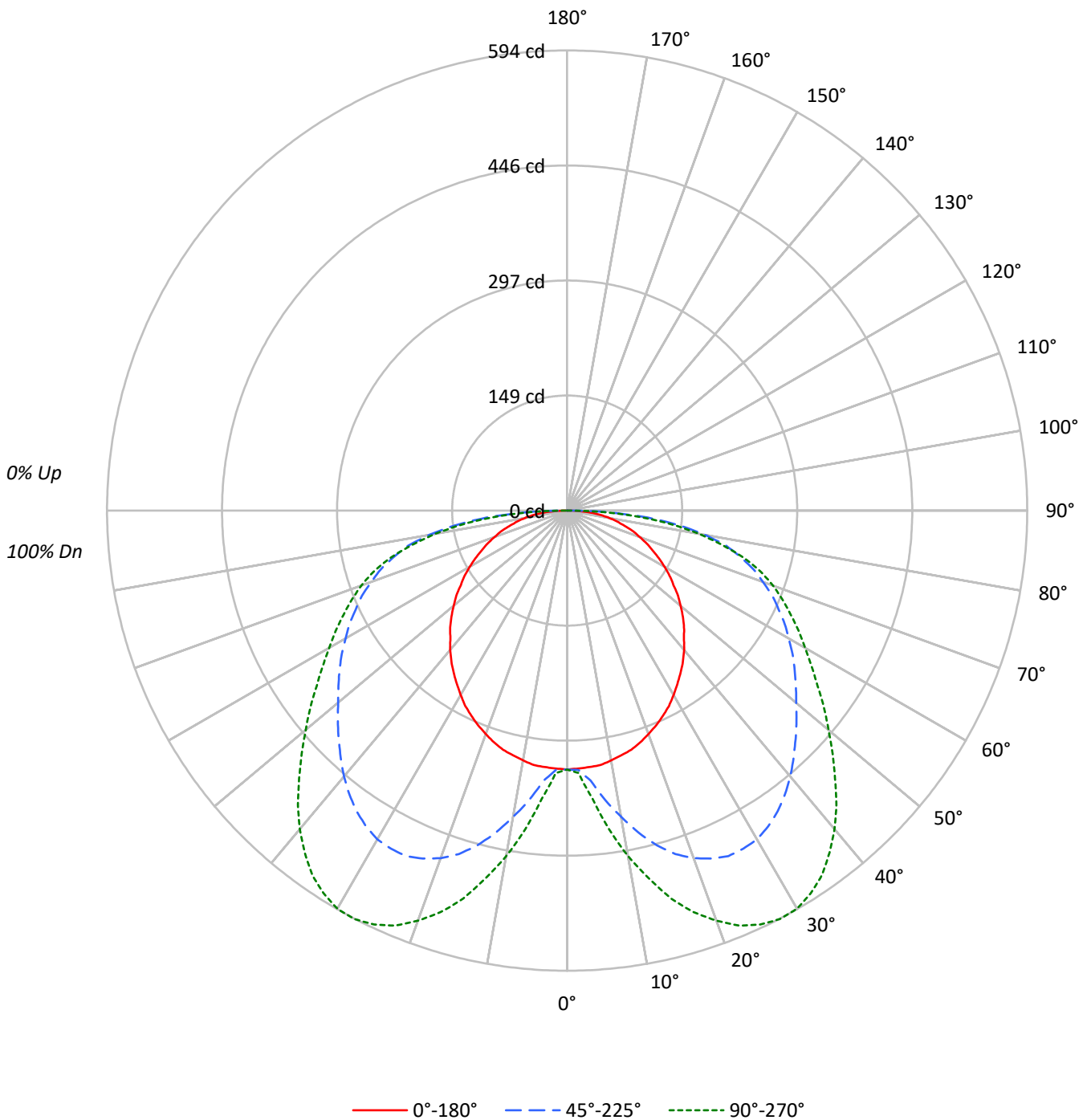
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	899	899	899
5°	898	945	1008
10°	895	1097	1238
15°	890	1246	1444
20°	879	1367	1613
25°	868	1461	1750
30°	854	1523	1844
35°	839	1556	1885
40°	825	1574	1886
45°	812	1587	1862
50°	800	1616	1844
55°	786	1682	1851
60°	781	1778	1909
65°	776	1917	2029
70°	782	2116	2223
75°	801	2411	2462
80°	860	2794	2673
85°	932	3220	2918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	1.9
10°-20°	123.0	6.8
20°-30°	216.3	12.0
30°-40°	280.8	15.5
40°-50°	301.4	16.7
50°-60°	292.4	16.2
60°-70°	264.2	14.6
70°-80°	208.1	11.5
80°-90°	88.8	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°	374.4	20.7
0°-40°	655.1	36.2
0°-60°	1248.9	69.0
0°-90°	1810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	334	334	334	334	334	
5°	332	335	350	367	373	32
15°	320	369	447	501	518	90
25°	292	382	492	565	590	135
35°	255	361	474	549	574	160
45°	213	316	417	473	489	165
55°	168	271	359	390	395	151
65°	122	225	301	315	319	121
75°	77	169	232	235	237	82
85°	30	76	104	97	94	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°	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2
2.5°	333.2	333.2	333.2	333.2	334.2	333.2	334.2	335.2	335.2	335.2	336.2
5°	332.3	333.2	333.2	333.2	334.2	336.2	338.1	342.0	346.9	349.8	353.7
7.5°	331.3	331.3	331.3	333.2	337.1	344.0	351.8	360.5	369.3	377.1	384.9
10°	327.4	328.4	329.3	335.2	344.0	355.7	368.3	381.0	390.7	401.5	412.2
12.5°	323.5	324.5	328.4	338.1	352.7	368.3	382.9	398.5	414.1	425.8	439.5
15°	319.6	320.6	326.4	342.0	360.5	378.1	396.6	415.1	430.7	447.3	461.9
17.5°	313.8	314.7	324.5	344.9	365.4	386.8	407.3	428.7	447.3	464.8	480.4
20°	306.9	308.9	321.6	344.9	368.3	391.7	415.1	437.5	458.0	477.5	496.0
22.5°	300.1	303.0	318.6	344.9	370.3	395.6	420.9	444.3	465.8	486.2	505.7
25°	292.3	295.2	314.7	343.0	369.3	395.6	422.9	447.3	469.7	492.1	511.6
27.5°	284.5	288.4	309.9	338.1	366.4	393.7	420.9	446.3	469.7	492.1	513.5
30°	274.8	279.7	304.0	333.2	361.5	389.8	417.0	443.4	466.7	490.1	510.6
32.5°	265.0	270.9	296.2	325.5	354.7	382.9	410.2	436.5	459.9	483.3	504.7
35°	255.3	262.1	288.4	317.7	346.9	374.2	401.5	427.8	451.1	473.6	495.0
37.5°	245.5	252.4	278.7	307.9	337.1	364.4	390.7	416.1	440.4	461.9	482.3
40°	234.8	242.6	269.9	298.2	326.4	353.7	379.0	404.4	426.8	448.2	466.7
42.5°	223.1	232.9	259.2	287.4	314.7	341.0	366.4	390.7	413.1	432.6	450.2
45°	213.4	222.2	248.5	276.7	303.0	329.3	354.7	378.1	398.5	417.0	433.6
47.5°	202.7	212.4	237.8	266.0	292.3	316.7	342.0	363.5	383.9	401.5	417.0
50°	191.0	202.7	227.0	254.3	281.6	306.0	330.3	350.8	370.3	385.9	400.5
52.5°	180.3	192.0	217.3	243.6	269.9	295.2	316.7	338.1	356.6	372.2	384.9
55°	167.6	182.2	206.6	232.9	258.2	283.6	306.0	326.4	344.0	358.6	370.3
57.5°	156.9	171.5	195.9	222.2	247.5	271.9	294.3	313.8	331.3	344.9	354.7
60°	145.2	160.8	185.1	211.4	235.8	260.2	282.6	302.1	317.7	330.3	340.1
62.5°	133.5	150.1	174.4	199.8	224.1	248.5	270.9	289.4	304.0	316.7	324.5
65°	121.8	138.4	163.7	188.1	212.4	236.8	257.2	275.8	290.4	301.1	308.9
67.5°	111.1	127.6	152.0	175.4	200.7	223.1	244.6	262.1	275.8	286.5	292.3
70°	99.4	116.9	139.3	162.7	187.1	209.5	230.0	246.5	260.2	268.9	274.8
72.5°	89.6	105.2	126.7	149.1	172.5	194.9	214.4	231.9	243.6	252.4	256.3
75°	77.0	93.5	114.0	135.4	157.9	179.3	197.8	213.4	225.1	231.9	235.8
77.5°	66.3	82.8	101.3	119.9	141.3	161.8	179.3	193.9	204.6	210.5	212.4
80°	55.5	69.2	85.7	103.3	121.8	140.3	156.9	169.5	178.3	180.3	181.2
82.5°	43.8	54.6	68.2	83.8	99.4	114.0	128.6	137.4	145.2	146.2	146.2
85°	30.2	37.0	46.8	57.5	69.2	81.8	92.6	99.4	102.3	104.3	104.3
87.5°	15.6	18.5	23.4	27.3	34.1	42.9	48.7	49.7	52.6	53.6	55.5
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°	334.2	334.2	334.2	334.2	334.2	334.2	334.2	334.2
2.5°	337.1	337.1	338.1	338.1	338.1	339.1	339.1	339.1
5°	358.6	361.5	365.4	369.3	370.3	373.2	373.2	373.2
7.5°	389.8	395.6	401.5	406.3	410.2	411.2	413.1	415.1
10°	421.9	428.7	437.5	442.4	445.3	449.2	450.2	453.1
12.5°	450.2	459.9	467.7	475.5	480.4	484.3	485.3	486.2
15°	473.6	486.2	496.9	504.7	509.6	513.5	517.4	518.4
17.5°	495.0	507.7	518.4	527.2	534.9	539.8	541.8	543.7
20°	511.6	525.2	536.9	546.6	554.4	559.3	562.2	563.2
22.5°	523.3	537.9	550.5	561.3	568.1	574.9	577.8	579.8
25°	530.1	545.7	559.3	570.0	578.8	584.6	588.5	589.5
27.5°	532.0	548.6	562.2	573.9	582.7	588.5	592.4	594.4
30°	530.1	546.6	561.3	572.9	581.7	587.6	591.5	593.4
32.5°	523.3	539.8	554.4	566.1	574.9	580.7	583.7	585.6
35°	512.5	529.1	543.7	554.4	562.2	569.1	572.0	573.9
37.5°	499.9	515.5	528.1	538.8	545.7	551.5	555.4	556.4
40°	483.3	497.9	509.6	520.3	527.2	532.0	534.9	536.9
42.5°	465.8	478.4	489.2	497.9	505.7	510.6	513.5	514.5
45°	448.2	458.9	468.7	476.5	481.4	486.2	488.2	489.2
47.5°	429.7	440.4	448.2	455.0	458.9	461.9	463.8	464.8
50°	412.2	420.9	427.8	432.6	435.6	438.5	440.4	440.4
52.5°	394.6	402.4	407.3	411.2	415.1	417.0	418.0	418.0
55°	379.0	383.9	388.8	390.7	391.7	392.7	394.6	394.6
57.5°	362.5	366.4	369.3	371.2	372.2	374.2	374.2	374.2
60°	345.9	348.8	349.8	351.8	352.7	353.7	354.7	354.7
62.5°	329.3	331.3	333.2	333.2	334.2	336.2	336.2	337.1
65°	311.8	313.8	314.7	315.7	316.7	317.7	318.6	318.6
67.5°	295.2	296.2	296.2	297.2	298.2	300.1	301.1	301.1
70°	276.7	276.7	276.7	277.7	278.7	280.6	281.6	282.6
72.5°	257.2	257.2	257.2	258.2	259.2	261.1	262.1	262.1
75°	235.8	235.8	234.8	235.8	234.8	235.8	234.8	236.8
77.5°	210.5	207.5	206.6	205.6	203.7	204.6	203.7	204.6
80°	179.3	176.4	173.4	172.5	172.5	171.5	170.5	172.5
82.5°	143.2	140.3	138.4	137.4	137.4	137.4	138.4	136.4
85°	102.3	99.4	97.4	97.4	95.5	95.5	95.5	94.5
87.5°	50.7	52.6	51.6	51.6	48.7	46.8	47.7	47.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)