

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: P188424

Luminaire Tested: **22SR-LD2-25-C-UNV-L830-CD1-TB-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188424
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-LD2-25-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: 1550.0 lumens
Efficiency: N/A
Efficacy: 79.1 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

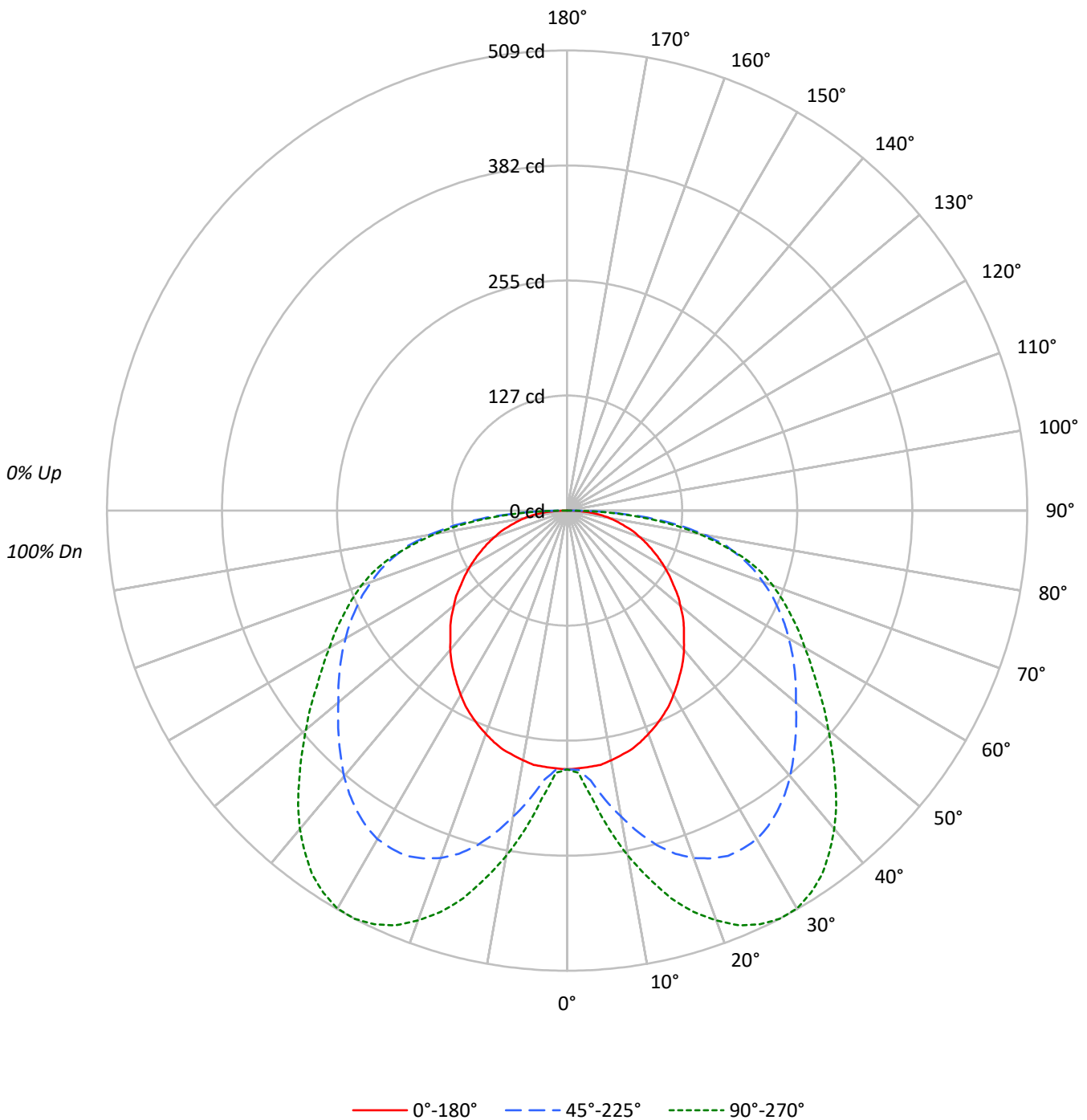
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	770	770	770
5°	769	809	863
10°	766	939	1060
15°	763	1067	1237
20°	753	1171	1381
25°	743	1251	1499
30°	731	1304	1579
35°	718	1332	1615
40°	706	1348	1615
45°	695	1359	1594
50°	684	1383	1579
55°	673	1441	1585
60°	669	1523	1635
65°	664	1642	1738
70°	670	1812	1904
75°	685	2065	2109
80°	738	2393	2289
85°	800	2757	2498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.0	1.9
10°-20°	105.4	6.8
20°-30°	185.3	12.0
30°-40°	240.4	15.5
40°-50°	258.1	16.7
50°-60°	250.4	16.2
60°-70°	226.2	14.6
70°-80°	178.2	11.5
80°-90°	76.0	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°	320.6	20.7
0°-40°	561.0	36.2
0°-60°	1069.5	69.0
0°-90°	1550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1550.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	286	286	286	286	286	
5°	284	287	300	315	320	27
15°	274	316	383	429	444	77
25°	250	328	421	484	505	115
35°	219	309	406	470	492	137
45°	183	271	357	405	419	141
55°	144	232	307	334	338	129
65°	104	192	258	270	273	104
75°	66	144	199	202	203	70
85°	26	65	89	83	81	27
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°	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2
2.5°	285.4	285.4	285.4	285.4	286.2	285.4	286.2	287.0	287.0	287.0	287.9
5°	284.5	285.4	285.4	285.4	286.2	287.9	289.5	292.9	297.1	299.6	302.9
7.5°	283.7	283.7	283.7	285.4	288.7	294.6	301.2	308.7	316.3	322.9	329.6
10°	280.4	281.2	282.0	287.0	294.6	304.6	315.4	326.3	334.6	343.8	353.0
12.5°	277.0	277.9	281.2	289.5	302.1	315.4	327.9	341.3	354.6	364.6	376.3
15°	273.7	274.5	279.5	292.9	308.7	323.8	339.6	355.5	368.8	383.0	395.5
17.5°	268.7	269.5	277.9	295.4	312.9	331.3	348.8	367.2	383.0	398.0	411.4
20°	262.8	264.5	275.4	295.4	315.4	335.4	355.5	374.7	392.2	408.9	424.7
22.5°	257.0	259.5	272.9	295.4	317.1	338.8	360.5	380.5	398.9	416.4	433.1
25°	250.3	252.8	269.5	293.7	316.3	338.8	362.1	383.0	402.2	421.4	438.1
27.5°	243.7	247.0	265.3	289.5	313.7	337.1	360.5	382.2	402.2	421.4	439.7
30°	235.3	239.5	260.3	285.4	309.6	333.8	357.1	379.7	399.7	419.7	437.2
32.5°	227.0	232.0	253.7	278.7	303.7	327.9	351.3	373.8	393.9	413.9	432.2
35°	218.6	224.5	247.0	272.0	297.1	320.4	343.8	366.3	386.3	405.5	423.9
37.5°	210.3	216.1	238.6	263.7	288.7	312.1	334.6	356.3	377.2	395.5	413.0
40°	201.1	207.8	231.1	255.3	279.5	302.9	324.6	346.3	365.5	383.8	399.7
42.5°	191.1	199.4	222.0	246.2	269.5	292.1	313.7	334.6	353.8	370.5	385.5
45°	182.7	190.3	212.8	237.0	259.5	282.0	303.7	323.8	341.3	357.1	371.3
47.5°	173.6	181.9	203.6	227.8	250.3	271.2	292.9	311.2	328.8	343.8	357.1
50°	163.5	173.6	194.4	217.8	241.2	262.0	282.9	300.4	317.1	330.4	343.0
52.5°	154.4	164.4	186.1	208.6	231.1	252.8	271.2	289.5	305.4	318.8	329.6
55°	143.5	156.0	176.9	199.4	221.1	242.8	262.0	279.5	294.6	307.1	317.1
57.5°	134.3	146.9	167.7	190.3	211.9	232.8	252.0	268.7	283.7	295.4	303.7
60°	124.3	137.7	158.5	181.1	201.9	222.8	242.0	258.7	272.0	282.9	291.2
62.5°	114.3	128.5	149.4	171.1	191.9	212.8	232.0	247.8	260.3	271.2	277.9
65°	104.3	118.5	140.2	161.0	181.9	202.8	220.3	236.1	248.7	257.8	264.5
67.5°	95.1	109.3	130.2	150.2	171.9	191.1	209.4	224.5	236.1	245.3	250.3
70°	85.1	100.1	119.3	139.4	160.2	179.4	196.9	211.1	222.8	230.3	235.3
72.5°	76.8	90.1	108.5	127.7	147.7	166.9	183.6	198.6	208.6	216.1	219.5
75°	65.9	80.1	97.6	116.0	135.2	153.5	169.4	182.7	192.8	198.6	201.9
77.5°	56.7	70.9	86.8	102.6	121.0	138.5	153.5	166.1	175.2	180.2	181.9
80°	47.6	59.2	73.4	88.4	104.3	120.2	134.3	145.2	152.7	154.4	155.2
82.5°	37.5	46.7	58.4	71.8	85.1	97.6	110.1	117.7	124.3	125.2	125.2
85°	25.9	31.7	40.1	49.2	59.2	70.1	79.3	85.1	87.6	89.3	89.3
87.5°	13.4	15.9	20.0	23.4	29.2	36.7	41.7	42.6	45.1	45.9	47.6
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°	286.2	286.2	286.2	286.2	286.2	286.2	286.2	286.2
2.5°	288.7	288.7	289.5	289.5	289.5	290.4	290.4	290.4
5°	307.1	309.6	312.9	316.3	317.1	319.6	319.6	319.6
7.5°	333.8	338.8	343.8	348.0	351.3	352.1	353.8	355.5
10°	361.3	367.2	374.7	378.8	381.3	384.7	385.5	388.0
12.5°	385.5	393.9	400.5	407.2	411.4	414.7	415.5	416.4
15°	405.5	416.4	425.6	432.2	436.4	439.7	443.1	443.9
17.5°	423.9	434.7	443.9	451.4	458.1	462.3	463.9	465.6
20°	438.1	449.8	459.8	468.1	474.8	479.0	481.5	482.3
22.5°	448.1	460.6	471.5	480.6	486.5	492.3	494.8	496.5
25°	453.9	467.3	479.0	488.1	495.7	500.7	504.0	504.8
27.5°	455.6	469.8	481.5	491.5	499.0	504.0	507.3	509.0
30°	453.9	468.1	480.6	490.6	498.2	503.2	506.5	508.2
32.5°	448.1	462.3	474.8	484.8	492.3	497.3	499.8	501.5
35°	438.9	453.1	465.6	474.8	481.5	487.3	489.8	491.5
37.5°	428.1	441.4	452.3	461.4	467.3	472.3	475.6	476.5
40°	413.9	426.4	436.4	445.6	451.4	455.6	458.1	459.8
42.5°	398.9	409.7	418.9	426.4	433.1	437.2	439.7	440.6
45°	383.8	393.0	401.4	408.0	412.2	416.4	418.1	418.9
47.5°	368.0	377.2	383.8	389.7	393.0	395.5	397.2	398.0
50°	353.0	360.5	366.3	370.5	373.0	375.5	377.2	377.2
52.5°	337.9	344.6	348.8	352.1	355.5	357.1	358.0	358.0
55°	324.6	328.8	332.9	334.6	335.4	336.3	337.9	337.9
57.5°	310.4	313.7	316.3	317.9	318.8	320.4	320.4	320.4
60°	296.2	298.7	299.6	301.2	302.1	302.9	303.7	303.7
62.5°	282.0	283.7	285.4	285.4	286.2	287.9	287.9	288.7
65°	267.0	268.7	269.5	270.4	271.2	272.0	272.9	272.9
67.5°	252.8	253.7	253.7	254.5	255.3	257.0	257.8	257.8
70°	237.0	237.0	237.0	237.8	238.6	240.3	241.2	242.0
72.5°	220.3	220.3	220.3	221.1	222.0	223.6	224.5	224.5
75°	201.9	201.9	201.1	201.9	201.1	201.9	201.1	202.8
77.5°	180.2	177.7	176.9	176.1	174.4	175.2	174.4	175.2
80°	153.5	151.0	148.5	147.7	147.7	146.9	146.0	147.7
82.5°	122.7	120.2	118.5	117.7	117.7	117.7	118.5	116.8
85°	87.6	85.1	83.4	83.4	81.8	81.8	81.8	80.9
87.5°	43.4	45.1	44.2	44.2	41.7	40.1	40.9	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)