

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: P188417

Luminaire Tested: **22SR-LD2-29-C-UNV-L850-CD1-TB-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188417  
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-L850-CD1-TB-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2072.0 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

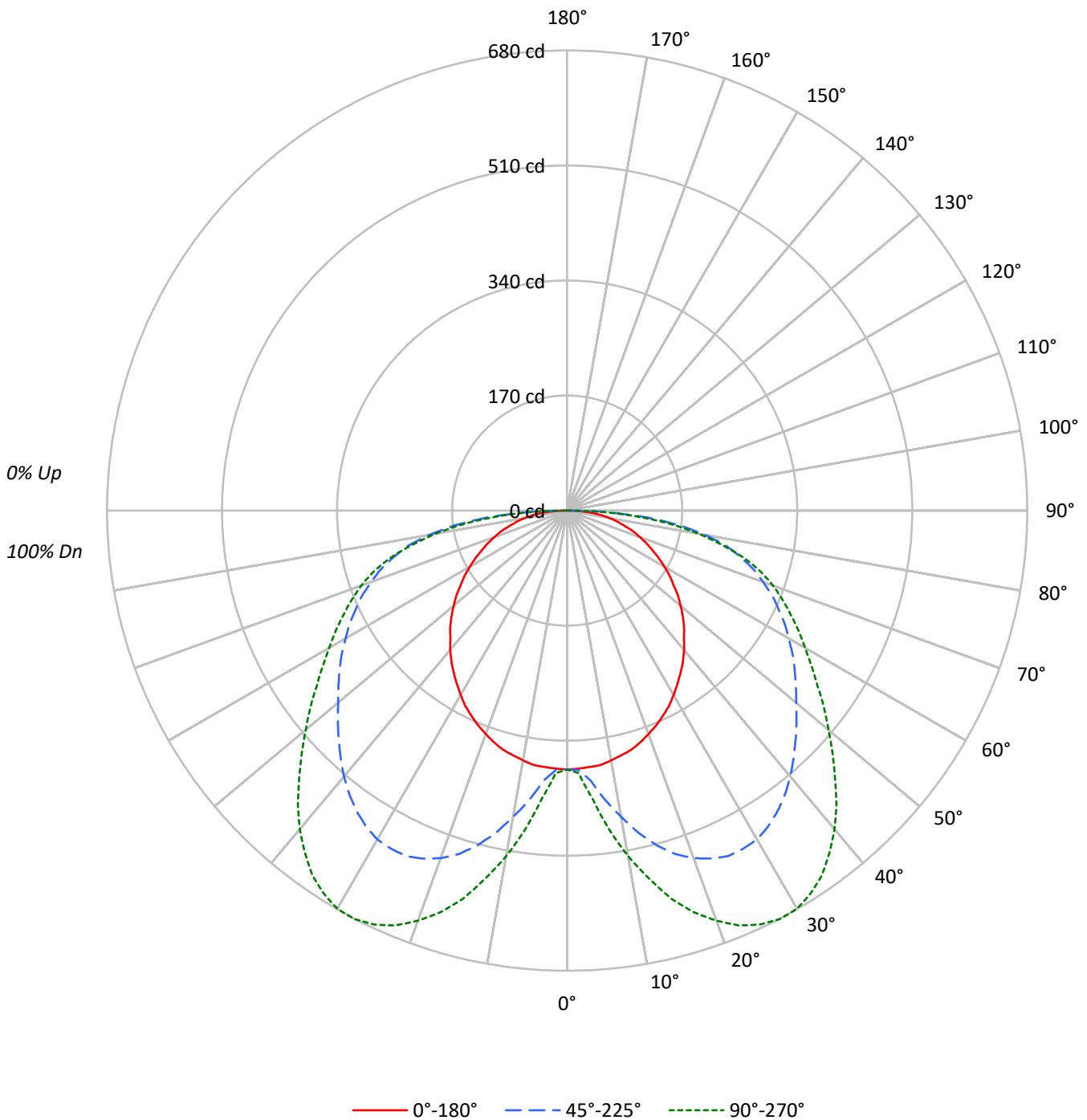
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1030	1030	1030
5°	1028	1082	1154
10°	1024	1256	1417
15°	1019	1426	1653
20°	1006	1565	1846
25°	993	1673	2004
30°	978	1743	2111
35°	960	1781	2158
40°	944	1802	2159
45°	930	1817	2131
50°	915	1849	2111
55°	900	1926	2120
60°	894	2035	2185
65°	888	2195	2323
70°	895	2423	2545
75°	916	2760	2819
80°	986	3199	3059
85°	1068	3687	3341



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.1	1.9
10°-20°	140.9	6.8
20°-30°	247.6	12.0
30°-40°	321.4	15.5
40°-50°	345.0	16.7
50°-60°	334.7	16.2
60°-70°	302.4	14.6
70°-80°	238.2	11.5
80°-90°	101.6	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°	428.6	20.7
0°-40°	750.0	36.2
0°-60°	1429.7	69.0
0°-90°	2072.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2072.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	383	383	383	383	383	
5°	380	384	400	421	427	36
15°	366	423	512	573	593	103
25°	335	438	563	646	675	154
35°	292	413	542	629	657	183
45°	244	362	477	541	560	188
55°	192	310	410	446	452	172
65°	139	257	345	361	365	138
75°	88	193	266	269	271	94
85°	35	86	119	112	108	37
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°	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6
2.5°	381.5	381.5	381.5	381.5	382.6	381.5	382.6	383.7	383.7	383.7	384.8
5°	380.4	381.5	381.5	381.5	382.6	384.8	387.1	391.5	397.1	400.4	404.9
7.5°	379.3	379.3	379.3	381.5	385.9	393.8	402.7	412.7	422.8	431.7	440.6
10°	374.8	375.9	377.0	383.7	393.8	407.1	421.6	436.1	447.3	459.6	471.8
12.5°	370.3	371.4	375.9	387.1	403.8	421.6	438.4	456.2	474.1	487.5	503.1
15°	365.9	367.0	373.7	391.5	412.7	432.8	454.0	475.2	493.0	512.0	528.7
17.5°	359.2	360.3	371.4	394.9	418.3	442.8	466.3	490.8	512.0	532.1	549.9
20°	351.4	353.6	368.1	394.9	421.6	448.4	475.2	500.8	524.3	546.6	567.8
22.5°	343.6	346.9	364.8	394.9	423.9	452.9	481.9	508.6	533.2	556.6	578.9
25°	334.6	338.0	360.3	392.6	422.8	452.9	484.1	512.0	537.6	563.3	585.6
27.5°	325.7	330.2	354.7	387.1	419.4	450.6	481.9	510.9	537.6	563.3	587.8
30°	314.6	320.1	348.0	381.5	413.8	446.2	477.4	507.5	534.3	561.1	584.5
32.5°	303.4	310.1	339.1	372.6	406.0	438.4	469.6	499.7	526.5	553.3	577.8
35°	292.2	300.1	330.2	363.6	397.1	428.3	459.6	489.7	516.5	542.1	566.6
37.5°	281.1	288.9	319.0	352.5	385.9	417.2	447.3	476.3	504.2	528.7	552.1
40°	268.8	277.7	309.0	341.3	373.7	404.9	433.9	462.9	488.6	513.1	534.3
42.5°	255.4	266.6	296.7	329.1	360.3	390.4	419.4	447.3	473.0	495.3	515.3
45°	244.3	254.3	284.4	316.8	346.9	377.0	406.0	432.8	456.2	477.4	496.4
47.5°	232.0	243.2	272.2	304.5	334.6	362.5	391.5	416.1	439.5	459.6	477.4
50°	218.6	232.0	259.9	291.1	322.4	350.3	378.1	401.6	423.9	441.7	458.4
52.5°	206.4	219.7	248.7	278.9	309.0	338.0	362.5	387.1	408.3	426.1	440.6
55°	191.9	208.6	236.5	266.6	295.6	324.6	350.3	373.7	393.8	410.5	423.9
57.5°	179.6	196.3	224.2	254.3	283.3	311.2	336.9	359.2	379.3	394.9	406.0
60°	166.2	184.0	211.9	242.1	269.9	297.8	323.5	345.8	363.6	378.1	389.3
62.5°	152.8	171.8	199.7	228.7	256.6	284.4	310.1	331.3	348.0	362.5	371.4
65°	139.4	158.4	187.4	215.3	243.2	271.1	294.5	315.7	332.4	344.7	353.6
67.5°	127.2	146.1	174.0	200.8	229.8	255.4	280.0	300.1	315.7	327.9	334.6
70°	113.8	133.9	159.5	186.3	214.2	239.8	263.2	282.2	297.8	307.9	314.6
72.5°	102.6	120.5	145.0	170.7	197.4	223.1	245.4	265.5	278.9	288.9	293.4
75°	88.1	107.1	130.5	155.0	180.7	205.2	226.4	244.3	257.7	265.5	269.9
77.5°	75.9	94.8	116.0	137.2	161.7	185.2	205.2	222.0	234.2	240.9	243.2
80°	63.6	79.2	98.2	118.2	139.4	160.6	179.6	194.1	204.1	206.4	207.5
82.5°	50.2	62.5	78.1	95.9	113.8	130.5	147.2	157.3	166.2	167.3	167.3
85°	34.6	42.4	53.5	65.8	79.2	93.7	106.0	113.8	117.1	119.4	119.4
87.5°	17.8	21.2	26.8	31.2	39.0	49.1	55.8	56.9	60.2	61.3	63.6
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°	382.6	382.6	382.6	382.6	382.6	382.6	382.6	382.6
2.5°	385.9	385.9	387.1	387.1	387.1	388.2	388.2	388.2
5°	410.5	413.8	418.3	422.8	423.9	427.2	427.2	427.2
7.5°	446.2	452.9	459.6	465.1	469.6	470.7	473.0	475.2
10°	483.0	490.8	500.8	506.4	509.8	514.2	515.3	518.7
12.5°	515.3	526.5	535.4	544.3	549.9	554.4	555.5	556.6
15°	542.1	556.6	568.9	577.8	583.4	587.8	592.3	593.4
17.5°	566.6	581.1	593.4	603.5	612.4	618.0	620.2	622.4
20°	585.6	601.2	614.6	625.8	634.7	640.3	643.6	644.7
22.5°	599.0	615.7	630.2	642.5	650.3	658.1	661.5	663.7
25°	606.8	624.7	640.3	652.5	662.6	669.3	673.7	674.8
27.5°	609.0	628.0	643.6	657.0	667.0	673.7	678.2	680.4
30°	606.8	625.8	642.5	655.9	665.9	672.6	677.1	679.3
32.5°	599.0	618.0	634.7	648.1	658.1	664.8	668.2	670.4
35°	586.7	605.7	622.4	634.7	643.6	651.4	654.8	657.0
37.5°	572.2	590.1	604.6	616.8	624.7	631.3	635.8	636.9
40°	553.3	570.0	583.4	595.6	603.5	609.0	612.4	614.6
42.5°	533.2	547.7	560.0	570.0	578.9	584.5	587.8	589.0
45°	513.1	525.4	536.5	545.5	551.0	556.6	558.8	560.0
47.5°	491.9	504.2	513.1	520.9	525.4	528.7	531.0	532.1
50°	471.8	481.9	489.7	495.3	498.6	502.0	504.2	504.2
52.5°	451.8	460.7	466.3	470.7	475.2	477.4	478.5	478.5
55°	433.9	439.5	445.1	447.3	448.4	449.5	451.8	451.8
57.5°	414.9	419.4	422.8	425.0	426.1	428.3	428.3	428.3
60°	396.0	399.3	400.4	402.7	403.8	404.9	406.0	406.0
62.5°	377.0	379.3	381.5	381.5	382.6	384.8	384.8	385.9
65°	356.9	359.2	360.3	361.4	362.5	363.6	364.8	364.8
67.5°	338.0	339.1	339.1	340.2	341.3	343.6	344.7	344.7
70°	316.8	316.8	316.8	317.9	319.0	321.2	322.4	323.5
72.5°	294.5	294.5	294.5	295.6	296.7	298.9	300.1	300.1
75°	269.9	269.9	268.8	269.9	268.8	269.9	268.8	271.1
77.5°	240.9	237.6	236.5	235.4	233.1	234.2	233.1	234.2
80°	205.2	201.9	198.5	197.4	197.4	196.3	195.2	197.4
82.5°	164.0	160.6	158.4	157.3	157.3	157.3	158.4	156.2
85°	117.1	113.8	111.5	111.5	109.3	109.3	109.3	108.2
87.5°	58.0	60.2	59.1	59.1	55.8	53.5	54.7	54.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)