

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: P188359

Luminaire Tested: **22SR-LD2-19-C-UNV-L830-CD1-PL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24639)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-19-C-UNV-L830-CD1-PL-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

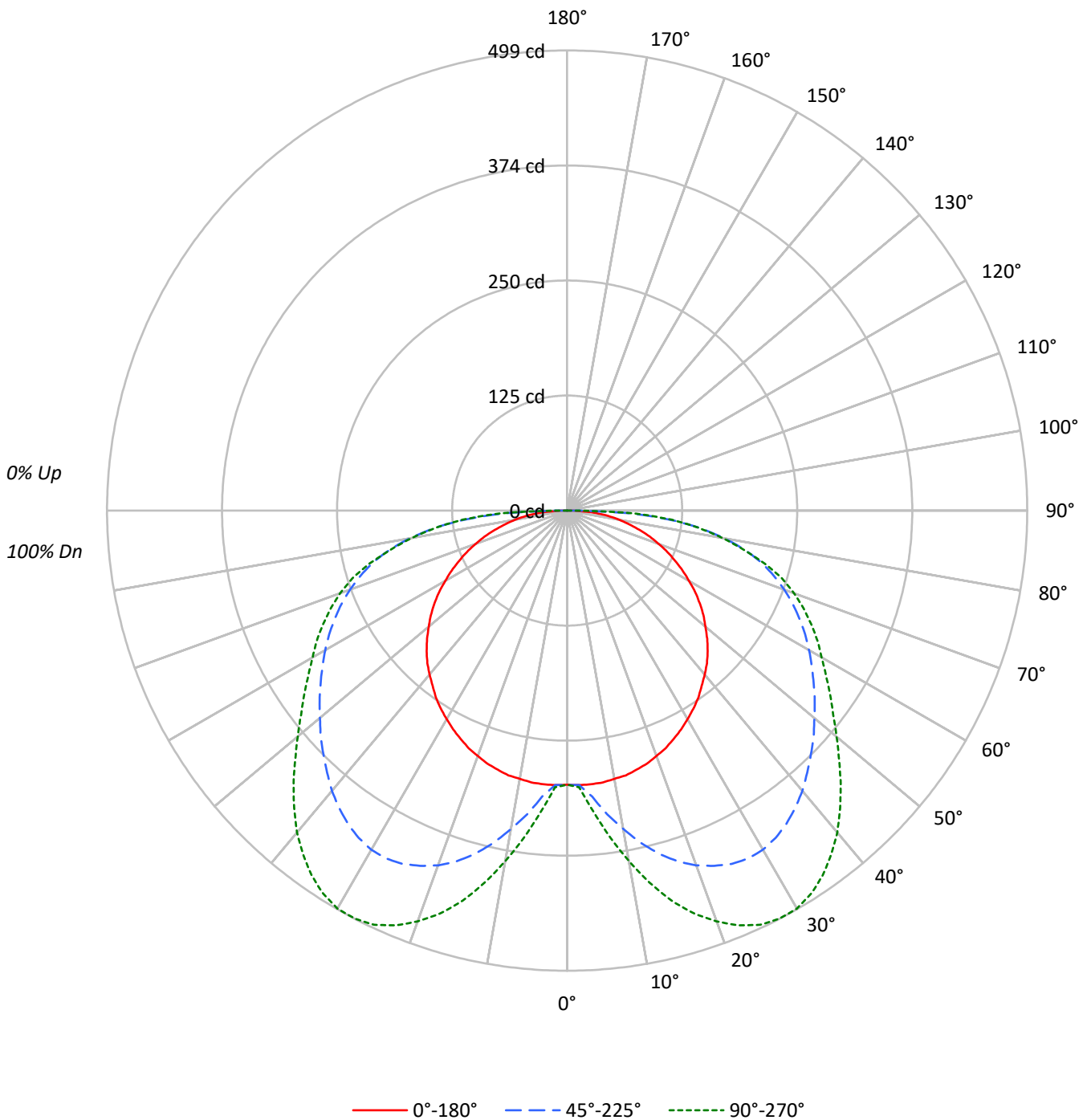
Lumens per Lamp: N/A  
Luminaire Lumens: 1649.0 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 2 / 1.87  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (A<sub>in</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	100	95	90	103	98	93	88	93	89	85	89	86	83	85	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62
3	85	73	64	56	83	72	63	56	69	61	55	66	59	54	63	57	53	50
4	78	64	54	47	75	63	53	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	55	46	39	53	45	39	51	44	38	49	43	38	35
6	65	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	30
7	60	46	36	29	58	45	36	29	43	35	29	42	34	29	40	34	28	26
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	22	20
10	49	35	26	21	47	34	26	21	33	26	20	32	25	20	31	25	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	871	871	871
5°	876	915	964
10°	879	1043	1148
15°	882	1169	1329
20°	883	1277	1478
25°	883	1367	1602
30°	883	1437	1686
35°	886	1483	1728
40°	887	1518	1743
45°	893	1549	1739
50°	893	1595	1739
55°	897	1667	1778
60°	895	1776	1868
65°	896	1929	2026
70°	906	2144	2243
75°	918	2468	2511
80°	962	2919	2887
85°	1066	3728	3812



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.8	1.9
10°-20°	106.5	6.5
20°-30°	187.1	11.3
30°-40°	246.2	14.9
40°-50°	270.8	16.4
50°-60°	268.4	16.3
60°-70°	247.0	15.0
70°-80°	198.0	12.0
80°-90°	94.2	5.7
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°	324.4	19.7
0°-40°	570.6	34.6
0°-60°	1109.8	67.3
0°-90°	1649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	297	297	297	297	297	
5°	298	299	311	324	328	28
15°	291	329	385	423	438	82
25°	273	341	423	476	496	126
35°	248	330	414	466	483	155
45°	216	299	374	410	420	166
55°	176	261	326	345	348	157
65°	129	217	278	287	292	128
75°	81	163	218	221	222	86
85°	32	77	111	112	113	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°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3
2.5°	297.9	298.5	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	298.5
5°	297.9	297.9	297.9	297.9	297.9	299.8	301.7	304.2	308.0	311.2	315.0
7.5°	297.3	297.3	297.3	297.9	301.7	306.8	313.1	319.4	326.4	332.1	337.2
10°	295.3	295.3	296.0	300.4	307.4	316.9	325.8	334.6	342.2	350.5	358.7
12.5°	294.1	294.1	296.0	304.2	315.0	327.0	337.8	348.6	359.4	368.9	378.4
15°	290.9	290.9	295.3	307.4	322.0	335.3	348.6	361.3	373.9	385.3	396.1
17.5°	287.7	287.7	294.7	310.6	326.4	341.6	356.8	372.0	386.0	398.7	410.7
20°	283.3	283.9	294.1	311.8	328.9	346.7	363.8	379.6	395.5	409.4	422.7
22.5°	278.9	279.5	292.8	312.5	330.8	349.9	368.2	386.0	402.5	417.0	431.6
25°	273.2	275.1	290.3	311.2	331.5	351.1	370.8	389.2	406.9	422.7	437.3
27.5°	267.5	270.0	287.1	308.7	330.2	350.5	370.8	390.4	408.2	425.3	439.9
30°	261.1	264.3	283.3	305.5	327.7	348.6	369.5	389.2	407.5	424.6	439.2
32.5°	254.8	258.0	278.2	301.1	323.2	344.8	365.7	386.0	403.7	420.8	436.1
35°	247.8	252.3	273.2	296.0	318.8	340.3	361.3	380.9	398.7	414.5	429.1
37.5°	239.6	245.3	266.2	289.6	312.5	334.0	354.3	373.9	391.1	406.3	420.2
40°	232.0	238.3	259.9	282.7	305.5	327.0	346.7	365.7	382.2	396.8	410.1
42.5°	224.4	231.3	252.3	275.1	297.3	318.8	338.4	356.2	372.0	385.3	398.0
45°	215.5	223.1	244.0	266.8	289.0	309.9	328.9	346.1	361.9	373.9	385.3
47.5°	206.0	214.9	235.8	258.6	280.1	300.4	319.4	335.3	349.9	362.5	372.7
50°	195.8	206.0	226.9	249.7	270.6	290.9	309.3	325.1	338.4	349.9	359.4
52.5°	186.3	196.5	217.4	239.6	261.1	281.4	299.2	314.4	327.0	338.4	346.7
55°	175.6	186.3	207.9	229.4	251.0	270.6	288.4	303.6	315.6	326.4	334.0
57.5°	164.8	176.2	197.1	219.3	240.2	260.5	278.2	292.8	304.9	314.4	321.3
60°	152.7	165.4	186.3	208.5	230.1	249.7	267.5	282.0	293.4	303.0	308.7
62.5°	141.3	154.0	176.2	197.7	218.7	238.9	256.7	270.6	282.0	290.9	296.0
65°	129.3	142.6	164.2	186.3	207.3	227.5	244.6	259.2	270.0	278.2	283.3
67.5°	117.9	131.2	152.1	173.7	194.6	215.5	232.0	245.9	256.7	264.9	269.4
70°	105.8	119.2	140.1	160.4	181.9	201.5	218.7	232.6	242.7	250.3	254.8
72.5°	93.8	107.7	126.8	147.7	168.0	188.2	204.1	218.0	228.2	235.1	238.9
75°	81.1	95.1	114.1	132.5	153.4	173.0	188.9	202.2	211.7	218.0	221.2
77.5°	69.1	81.8	100.1	118.5	136.9	155.9	171.1	184.4	192.0	197.7	200.9
80°	57.0	68.4	84.9	102.0	118.5	136.3	150.2	162.3	169.9	173.0	174.9
82.5°	45.0	55.1	67.8	83.0	97.6	112.2	124.9	135.0	140.7	145.1	146.4
85°	31.7	38.0	48.2	58.9	71.0	83.0	94.4	102.0	107.7	110.9	111.5
87.5°	16.5	19.0	24.1	30.4	39.3	47.5	53.9	58.9	63.4	66.5	69.7
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°	297.3	297.3	297.3	297.3	297.3	297.3	297.3	297.3
2.5°	298.5	298.5	299.8	299.8	300.4	300.4	299.8	300.4
5°	317.5	320.1	323.9	323.9	326.4	327.7	327.7	327.7
7.5°	341.0	344.8	349.2	351.8	354.9	356.8	357.5	357.5
10°	363.8	369.5	374.6	378.4	382.2	384.1	386.0	386.0
12.5°	385.3	392.3	398.7	403.7	408.2	410.7	412.6	413.2
15°	405.0	413.9	420.2	426.5	431.6	434.8	436.7	438.0
17.5°	421.5	431.0	438.6	444.9	450.6	454.4	457.6	458.2
20°	434.2	444.3	453.2	460.1	466.5	470.3	473.4	474.1
22.5°	443.7	455.1	464.6	472.2	478.5	483.0	485.5	486.8
25°	450.0	461.4	472.2	480.4	487.4	491.8	493.7	495.6
27.5°	453.2	465.2	476.0	484.2	491.2	495.6	498.2	498.8
30°	453.2	464.6	475.3	483.6	489.9	494.4	496.9	498.2
32.5°	448.7	460.1	470.3	478.5	484.2	488.7	491.2	492.5
35°	441.8	452.5	462.7	469.6	476.0	479.1	482.3	483.0
37.5°	432.2	442.4	451.9	458.2	463.9	467.1	469.6	470.3
40°	420.8	430.3	438.6	444.3	449.4	452.5	454.4	455.7
42.5°	408.2	416.4	423.4	428.4	432.2	435.4	436.7	438.0
45°	394.2	401.2	407.5	412.0	415.1	417.0	418.9	419.6
47.5°	380.3	386.6	391.7	395.5	396.8	398.7	399.3	399.9
50°	366.3	371.4	375.8	377.7	379.6	380.9	380.9	381.5
52.5°	352.4	357.5	359.4	361.9	363.2	363.8	363.8	363.8
55°	339.1	342.9	344.8	346.1	346.7	348.0	348.0	348.0
57.5°	326.4	328.9	329.6	330.8	331.5	332.7	332.7	332.7
60°	312.5	315.0	315.6	316.3	316.9	318.2	318.8	318.8
62.5°	299.8	301.7	301.1	302.3	303.0	304.2	305.5	306.1
65°	285.8	287.1	287.1	287.7	289.6	290.3	291.5	292.2
67.5°	271.9	272.5	272.5	273.8	275.1	276.3	277.0	277.6
70°	256.1	257.3	256.7	258.0	259.2	260.5	261.8	261.8
72.5°	239.6	240.2	240.8	240.2	241.5	242.7	243.4	244.0
75°	220.6	221.8	221.8	220.6	221.2	221.2	221.8	221.8
77.5°	198.4	197.7	195.8	194.6	194.6	195.2	195.2	195.8
80°	173.0	171.8	170.5	169.2	169.2	169.9	169.9	171.1
82.5°	145.1	143.9	142.6	142.0	142.6	142.6	143.2	143.9
85°	112.2	110.3	112.2	110.9	112.2	112.2	112.2	113.4
87.5°	69.7	70.4	72.3	71.6	71.0	71.6	74.2	72.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)