

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: P188360

Luminaire Tested: **22SR-LD2-19-C-UNV-L835-CD1-PL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188360  
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-L835-CD1-PL-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

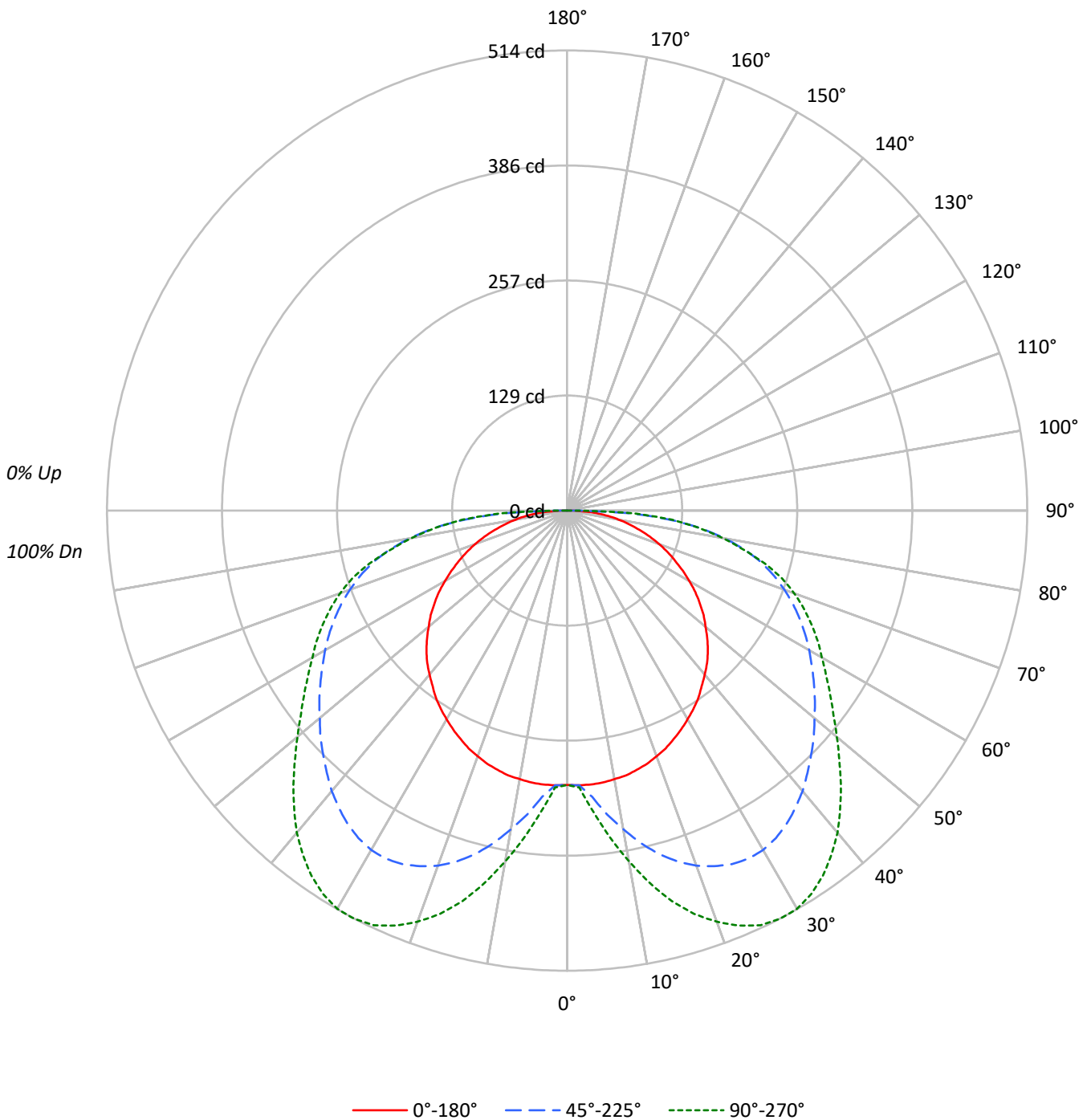
Lumens per Lamp: N/A  
Luminaire Lumens: 1700.0 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 2 / 1.87  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	898	898	898
5°	903	944	994
10°	906	1075	1184
15°	910	1205	1370
20°	911	1316	1524
25°	910	1409	1652
30°	911	1481	1738
35°	914	1528	1781
40°	915	1564	1797
45°	921	1597	1792
50°	920	1644	1793
55°	925	1719	1832
60°	923	1830	1926
65°	924	1988	2088
70°	935	2211	2312
75°	946	2545	2589
80°	992	3010	2976
85°	1099	3843	3933



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.8	1.9
10°-20°	109.8	6.5
20°-30°	192.9	11.3
30°-40°	253.8	14.9
40°-50°	279.2	16.4
50°-60°	276.7	16.3
60°-70°	254.6	15.0
70°-80°	204.1	12.0
80°-90°	97.1	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°	334.4	19.7
0°-40°	588.3	34.6
0°-60°	1144.2	67.3
0°-90°	1700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1700.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	307	308	321	334	338	29
15°	300	339	397	436	452	85
25°	282	352	436	491	511	130
35°	256	340	427	481	498	160
45°	222	309	386	422	432	171
55°	181	269	336	356	359	162
65°	133	224	287	296	301	132
75°	84	168	225	228	229	89
85°	33	79	114	115	117	34
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°	306.4	306.4	306.4	306.4	306.4	306.4	306.4	306.4	306.4	306.4	306.4
2.5°	307.1	307.8	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.1	307.8
5°	307.1	307.1	307.1	307.1	307.1	309.1	311.0	313.6	317.6	320.8	324.7
7.5°	306.4	306.4	306.4	307.1	311.0	316.2	322.8	329.3	336.5	342.4	347.6
10°	304.5	304.5	305.1	309.7	316.9	326.7	335.8	345.0	352.8	361.3	369.8
12.5°	303.2	303.2	305.1	313.6	324.7	337.2	348.3	359.4	370.5	380.3	390.1
15°	299.9	299.9	304.5	316.9	331.9	345.6	359.4	372.4	385.5	397.3	408.4
17.5°	296.6	296.6	303.8	320.2	336.5	352.2	367.9	383.5	397.9	411.0	423.4
20°	292.1	292.7	303.2	321.5	339.1	357.4	375.1	391.4	407.7	422.1	435.8
22.5°	287.5	288.1	301.9	322.1	341.1	360.7	379.6	397.9	414.9	429.9	445.0
25°	281.6	283.6	299.3	320.8	341.7	362.0	382.2	401.2	419.5	435.8	450.8
27.5°	275.7	278.3	296.0	318.2	340.4	361.3	382.2	402.5	420.8	438.4	453.5
30°	269.2	272.5	292.1	314.9	337.8	359.4	380.9	401.2	420.1	437.8	452.8
32.5°	262.7	265.9	286.8	310.4	333.2	355.4	377.0	397.9	416.2	433.9	449.5
35°	255.5	260.1	281.6	305.1	328.7	350.9	372.4	392.7	411.0	427.3	442.4
37.5°	247.0	252.9	274.4	298.6	322.1	344.3	365.2	385.5	403.1	418.8	433.2
40°	239.1	245.7	267.9	291.4	314.9	337.2	357.4	377.0	394.0	409.0	422.7
42.5°	231.3	238.5	260.1	283.6	306.4	328.7	348.9	367.2	383.5	397.3	410.3
45°	222.2	230.0	251.6	275.1	297.9	319.5	339.1	356.8	373.1	385.5	397.3
47.5°	212.4	221.5	243.1	266.6	288.8	309.7	329.3	345.6	360.7	373.7	384.2
50°	201.9	212.4	233.9	257.4	279.0	299.9	318.9	335.2	348.9	360.7	370.5
52.5°	192.1	202.6	224.1	247.0	269.2	290.1	308.4	324.1	337.2	348.9	357.4
55°	181.0	192.1	214.3	236.5	258.7	279.0	297.3	313.0	325.4	336.5	344.3
57.5°	169.9	181.6	203.2	226.1	247.6	268.5	286.8	301.9	314.3	324.1	331.3
60°	157.5	170.5	192.1	215.0	237.2	257.4	275.7	290.8	302.5	312.3	318.2
62.5°	145.7	158.8	181.6	203.9	225.4	246.3	264.6	279.0	290.8	299.9	305.1
65°	133.3	147.0	169.2	192.1	213.7	234.6	252.2	267.2	278.3	286.8	292.1
67.5°	121.5	135.3	156.8	179.0	200.6	222.2	239.1	253.5	264.6	273.1	277.7
70°	109.1	122.8	144.4	165.3	187.5	207.8	225.4	239.8	250.3	258.1	262.7
72.5°	96.7	111.1	130.7	152.2	173.2	194.1	210.4	224.8	235.2	242.4	246.3
75°	83.6	98.0	117.6	136.6	158.1	178.4	194.7	208.4	218.2	224.8	228.0
77.5°	71.2	84.3	103.2	122.2	141.1	160.7	176.4	190.1	198.0	203.9	207.1
80°	58.8	70.6	87.6	105.2	122.2	140.5	154.9	167.3	175.1	178.4	180.3
82.5°	46.4	56.8	69.9	85.6	100.6	115.7	128.7	139.2	145.1	149.6	150.9
85°	32.7	39.2	49.7	60.8	73.2	85.6	97.4	105.2	111.1	114.3	115.0
87.5°	17.0	19.6	24.8	31.4	40.5	49.0	55.5	60.8	65.3	68.6	71.9
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°	306.4	306.4	306.4	306.4	306.4	306.4	306.4	306.4
2.5°	307.8	307.8	309.1	309.1	309.7	309.7	309.1	309.7
5°	327.4	330.0	333.9	333.9	336.5	337.8	337.8	337.8
7.5°	351.5	355.4	360.0	362.6	365.9	367.9	368.5	368.5
10°	375.1	380.9	386.2	390.1	394.0	396.0	397.9	397.9
12.5°	397.3	404.5	411.0	416.2	420.8	423.4	425.4	426.0
15°	417.5	426.7	433.2	439.7	445.0	448.2	450.2	451.5
17.5°	434.5	444.3	452.2	458.7	464.6	468.5	471.8	472.4
20°	447.6	458.0	467.2	474.4	480.9	484.8	488.1	488.7
22.5°	457.4	469.1	478.9	486.8	493.3	497.9	500.5	501.8
25°	463.9	475.7	486.8	495.3	502.5	507.0	509.0	511.0
27.5°	467.2	479.6	490.7	499.2	506.4	511.0	513.6	514.2
30°	467.2	478.9	490.0	498.5	505.1	509.7	512.3	513.6
32.5°	462.6	474.4	484.8	493.3	499.2	503.8	506.4	507.7
35°	455.4	466.5	477.0	484.2	490.7	494.0	497.2	497.9
37.5°	445.6	456.1	465.9	472.4	478.3	481.6	484.2	484.8
40°	433.9	443.7	452.2	458.0	463.3	466.5	468.5	469.8
42.5°	420.8	429.3	436.5	441.7	445.6	448.9	450.2	451.5
45°	406.4	413.6	420.1	424.7	428.0	429.9	431.9	432.5
47.5°	392.0	398.6	403.8	407.7	409.0	411.0	411.6	412.3
50°	377.7	382.9	387.5	389.4	391.4	392.7	392.7	393.3
52.5°	363.3	368.5	370.5	373.1	374.4	375.1	375.1	375.1
55°	349.6	353.5	355.4	356.8	357.4	358.7	358.7	358.7
57.5°	336.5	339.1	339.8	341.1	341.7	343.0	343.0	343.0
60°	322.1	324.7	325.4	326.0	326.7	328.0	328.7	328.7
62.5°	309.1	311.0	310.4	311.7	312.3	313.6	314.9	315.6
65°	294.7	296.0	296.0	296.6	298.6	299.3	300.6	301.2
67.5°	280.3	281.0	281.0	282.3	283.6	284.9	285.5	286.2
70°	264.0	265.3	264.6	265.9	267.2	268.5	269.9	269.9
72.5°	247.0	247.6	248.3	247.6	248.9	250.3	250.9	251.6
75°	227.4	228.7	228.7	227.4	228.0	228.0	228.7	228.7
77.5°	204.5	203.9	201.9	200.6	200.6	201.2	201.2	201.9
80°	178.4	177.1	175.8	174.5	174.5	175.1	175.1	176.4
82.5°	149.6	148.3	147.0	146.4	147.0	147.0	147.7	148.3
85°	115.7	113.7	115.7	114.3	115.7	115.7	115.7	117.0
87.5°	71.9	72.5	74.5	73.8	73.2	73.8	76.4	75.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)