

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: P188316

Luminaire Tested: **22SR-LD2-29-C-UNV-L840-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24793)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-29-C-UNV-L840-CD1-PG-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

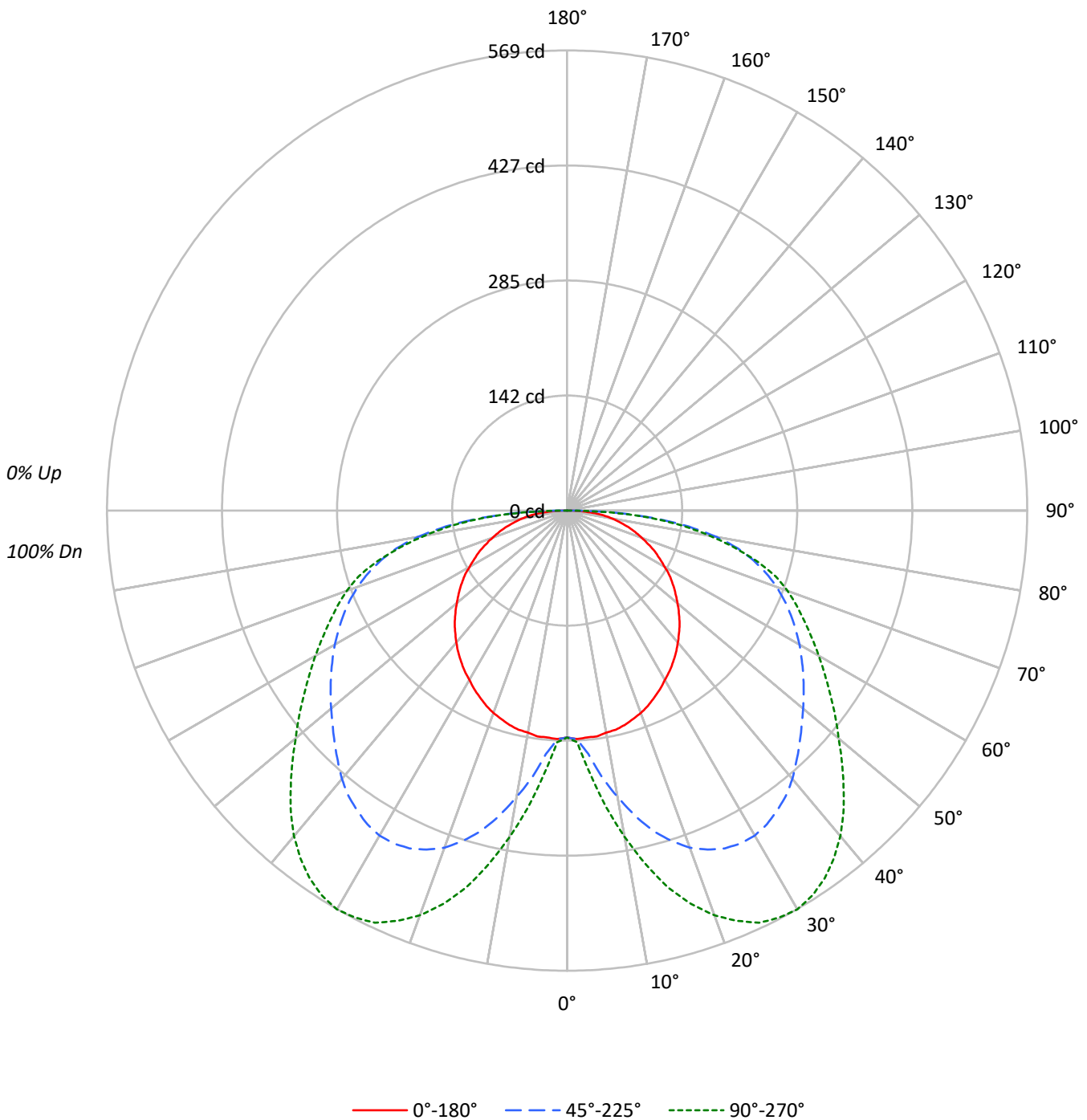
Lumens per Lamp: N/A  
Luminaire Lumens: 1769.0 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 2.2 / 2  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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	100	95	90	103	98	93	89	93	89	86	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	69	80	73	68	76	71	66	73	69	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	51
4	78	64	54	47	75	63	54	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	56	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	45	36	29	58	45	36	29	43	35	29	41	34	29	40	33	28	26
8	56	41	32	26	54	40	32	26	39	31	25	38	31	25	37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18

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

	0°	45°	90°
0°	822	822	822
5°	828	889	961
10°	829	1070	1219
15°	833	1243	1463
20°	830	1383	1661
25°	824	1490	1818
30°	818	1570	1926
35°	817	1619	1986
40°	815	1657	2010
45°	815	1685	2003
50°	812	1737	1998
55°	816	1821	2030
60°	816	1944	2107
65°	831	2116	2244
70°	842	2360	2483
75°	881	2701	2760
80°	950	3162	3024
85°	1066	3685	3476



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.5	1.7
10°-20°	111.9	6.3
20°-30°	202.0	11.4
30°-40°	267.6	15.1
40°-50°	293.7	16.6
50°-60°	290.4	16.4
60°-70°	266.7	15.1
70°-80°	213.3	12.1
80°-90°	92.9	5.3
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°	344.4	19.5
0°-40°	612.0	34.6
0°-60°	1196.1	67.6
0°-90°	1769.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	281	281	281	281	281	
5°	282	284	302	321	327	27
15°	274	328	410	461	482	77
25°	255	351	461	535	562	118
35°	228	338	453	528	555	143
45°	197	305	407	466	483	152
55°	160	266	356	391	397	143
65°	120	225	305	320	324	118
75°	78	171	239	243	244	82
85°	32	78	110	103	103	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°	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6
2.5°	282.7	282.7	281.6	282.7	281.6	282.7	281.6	281.6	282.7	282.7	283.7
5°	281.6	281.6	281.6	281.6	282.7	284.7	287.8	291.9	297.0	302.1	307.3
7.5°	281.6	281.6	281.6	282.7	287.8	296.0	305.2	314.4	324.7	332.9	340.0
10°	278.6	279.6	279.6	285.7	297.0	310.3	324.7	335.9	348.2	359.5	369.7
12.5°	277.6	278.6	280.6	291.9	308.3	326.7	342.1	357.4	372.8	386.1	398.4
15°	274.5	274.5	281.6	298.0	318.5	338.0	357.4	375.9	393.3	409.7	424.0
17.5°	270.4	270.4	281.6	303.2	325.7	348.2	369.7	390.2	410.7	428.1	444.5
20°	266.3	267.3	281.6	307.3	331.8	357.4	380.0	402.5	424.0	443.5	461.9
22.5°	261.2	262.2	281.6	309.3	335.9	362.6	387.1	410.7	433.2	453.7	473.2
25°	255.0	258.1	279.6	308.3	337.0	364.6	390.2	415.8	440.4	460.9	481.4
27.5°	248.9	253.0	276.5	306.2	335.9	364.6	391.2	417.9	441.4	464.0	484.4
30°	241.7	246.8	273.5	304.2	333.9	362.6	390.2	416.8	441.4	464.0	484.4
32.5°	235.6	241.7	269.4	300.1	329.8	358.5	386.1	412.7	437.3	459.9	480.3
35°	228.4	234.5	263.2	293.9	323.6	352.3	380.0	405.6	431.2	452.7	473.2
37.5°	221.2	228.4	257.1	287.8	317.5	346.2	372.8	398.4	422.0	444.5	464.0
40°	213.0	221.2	249.9	280.6	309.3	337.0	363.6	388.2	411.7	433.2	451.7
42.5°	204.8	214.1	241.7	272.4	301.1	328.8	354.4	377.9	400.5	419.9	437.3
45°	196.6	206.9	234.5	263.2	291.9	318.5	343.1	366.7	387.1	406.6	423.0
47.5°	187.4	198.7	226.3	255.0	282.7	308.3	332.9	355.4	375.9	393.3	408.6
50°	178.2	190.5	218.2	245.8	272.4	299.1	322.6	344.1	363.6	381.0	395.3
52.5°	169.0	182.3	208.9	236.6	263.2	288.8	312.4	332.9	352.3	368.7	381.0
55°	159.8	173.1	200.7	227.4	254.0	278.6	302.1	322.6	341.1	356.4	367.7
57.5°	150.6	164.9	191.5	217.1	243.8	269.4	291.9	312.4	329.8	344.1	355.4
60°	139.3	155.7	181.3	207.9	233.5	259.1	281.6	301.1	318.5	331.8	342.1
62.5°	129.0	146.5	172.1	197.7	223.3	247.9	270.4	289.8	306.2	318.5	327.7
65°	119.8	136.2	161.8	186.4	212.0	237.6	259.1	278.6	293.9	305.2	313.4
67.5°	108.6	126.0	150.6	175.1	200.7	225.3	246.8	265.3	280.6	290.9	298.0
70°	98.3	115.7	139.3	163.9	188.4	212.0	233.5	251.9	265.3	275.5	280.6
72.5°	88.1	105.5	128.0	151.6	175.1	198.7	219.2	235.6	248.9	258.1	262.2
75°	77.8	94.2	115.7	138.3	159.8	182.3	202.8	219.2	230.4	238.6	241.7
77.5°	66.6	83.0	102.4	122.9	143.4	164.9	183.3	198.7	210.0	216.1	219.2
80°	56.3	69.6	87.1	106.5	125.0	144.4	160.8	174.1	183.3	187.4	186.4
82.5°	45.1	55.3	69.6	86.0	101.4	117.8	132.1	143.4	149.5	151.6	151.6
85°	31.7	37.9	48.1	59.4	71.7	84.0	95.2	103.4	108.6	109.6	109.6
87.5°	16.4	18.4	22.5	28.7	34.8	42.0	50.2	55.3	57.4	58.4	58.4
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°	280.6	280.6	280.6	280.6	280.6	280.6	280.6	280.6
2.5°	283.7	284.7	285.7	285.7	285.7	286.8	286.8	286.8
5°	311.4	316.5	319.5	321.6	323.6	325.7	327.7	326.7
7.5°	346.2	352.3	357.4	361.5	364.6	367.7	369.7	369.7
10°	377.9	386.1	393.3	399.4	404.6	406.6	409.7	409.7
12.5°	409.7	418.9	427.1	435.3	440.4	444.5	447.6	447.6
15°	436.3	447.6	456.8	466.0	473.2	478.3	480.3	482.4
17.5°	458.8	471.1	482.4	492.6	499.8	504.9	508.0	510.0
20°	476.2	490.6	502.9	513.1	522.3	527.5	530.5	532.6
22.5°	489.6	504.9	518.2	529.5	537.7	543.8	547.9	549.0
25°	498.8	515.2	529.5	540.8	550.0	556.1	560.2	562.3
27.5°	502.9	519.3	534.6	546.9	556.1	563.3	566.4	567.4
30°	503.9	520.3	535.6	547.9	558.2	564.3	567.4	569.4
32.5°	499.8	516.2	531.5	543.8	553.1	559.2	563.3	564.3
35°	491.6	508.0	522.3	534.6	543.8	550.0	554.1	555.1
37.5°	481.4	496.7	511.1	522.3	531.5	537.7	540.8	541.8
40°	468.1	483.4	495.7	507.0	515.2	520.3	524.4	525.4
42.5°	453.7	468.1	480.3	489.6	496.7	502.9	504.9	505.9
45°	437.3	450.6	461.9	470.1	476.2	481.4	483.4	483.4
47.5°	422.0	434.3	443.5	450.6	454.7	458.8	459.9	460.9
50°	406.6	416.8	425.0	430.2	434.3	437.3	438.3	438.3
52.5°	392.3	400.5	406.6	411.7	413.8	416.8	417.9	417.9
55°	377.9	384.1	389.2	392.3	394.3	396.4	396.4	397.4
57.5°	363.6	368.7	371.8	373.8	375.9	376.9	377.9	377.9
60°	348.2	352.3	354.4	355.4	356.4	358.5	358.5	359.5
62.5°	332.9	335.9	337.0	338.0	339.0	340.0	341.1	341.1
65°	316.5	318.5	319.5	320.6	321.6	322.6	324.7	323.6
67.5°	300.1	301.1	302.1	303.2	304.2	306.2	307.3	307.3
70°	282.7	282.7	283.7	284.7	285.7	287.8	288.8	289.8
72.5°	264.2	263.2	264.2	265.3	267.3	269.4	270.4	270.4
75°	242.7	242.7	242.7	242.7	242.7	243.8	243.8	243.8
77.5°	218.2	213.0	212.0	211.0	211.0	211.0	211.0	212.0
80°	184.4	180.3	179.2	178.2	179.2	179.2	179.2	179.2
82.5°	149.5	145.4	144.4	143.4	143.4	143.4	143.4	144.4
85°	107.5	105.5	104.5	102.4	103.4	103.4	104.5	103.4
87.5°	58.4	55.3	55.3	54.3	56.3	55.3	55.3	54.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)