

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: P188324

Luminaire Tested: **22SR-LD2-25-C-UNV-L840-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188324  
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-LD2-25-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**

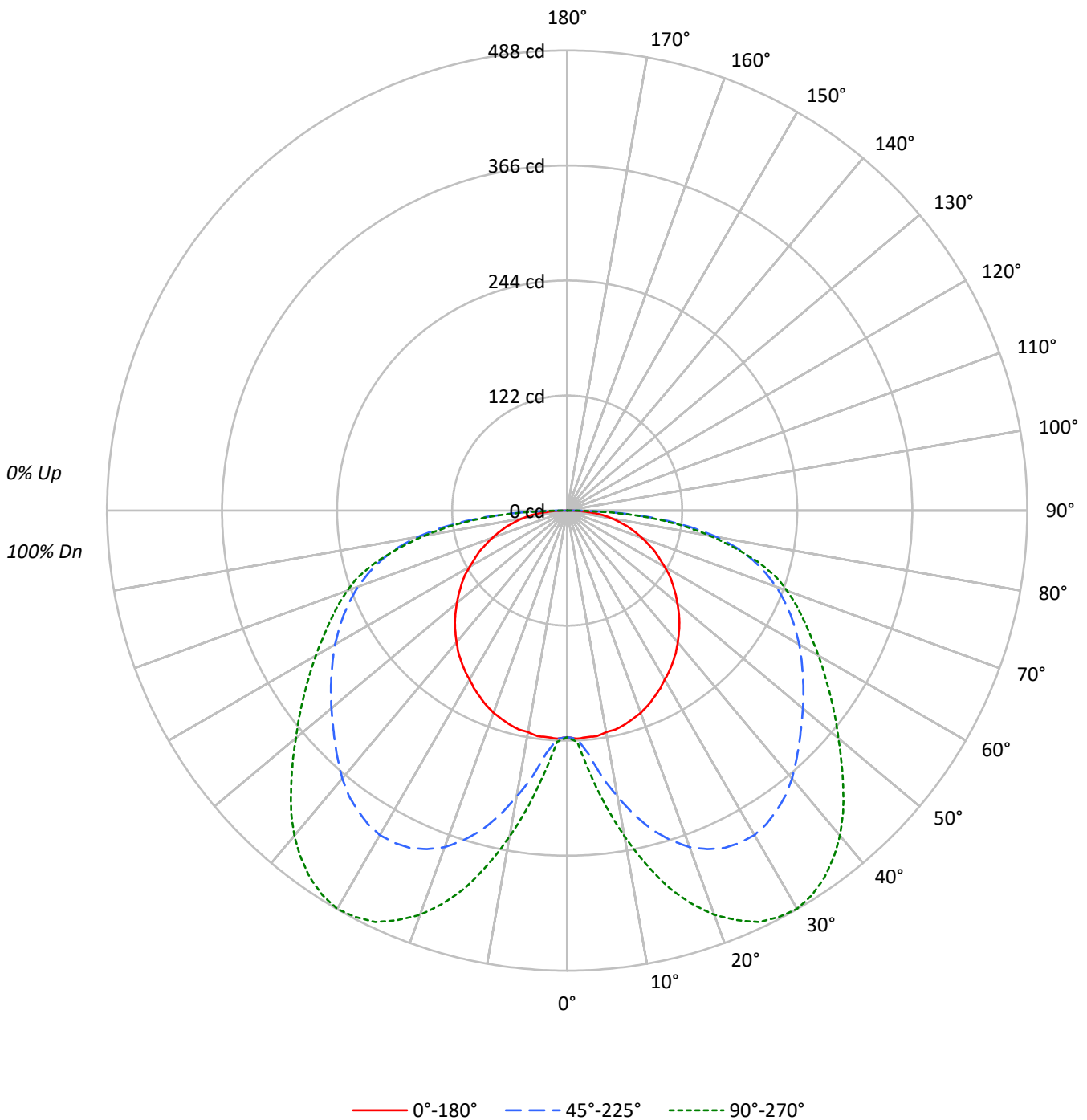
Lumens per Lamp: N/A  
Luminaire Lumens: 1515.0 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 2.2 / 2  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	704	704	704
5°	709	761	823
10°	710	916	1044
15°	713	1064	1253
20°	711	1184	1422
25°	706	1276	1557
30°	700	1344	1650
35°	700	1387	1700
40°	698	1419	1721
45°	698	1443	1716
50°	696	1487	1711
55°	699	1559	1738
60°	699	1665	1804
65°	711	1812	1922
70°	721	2021	2126
75°	755	2314	2364
80°	813	2708	2590
85°	914	3157	2979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.1	1.7
10°-20°	95.9	6.3
20°-30°	173.0	11.4
30°-40°	229.2	15.1
40°-50°	251.5	16.6
50°-60°	248.7	16.4
60°-70°	228.4	15.1
70°-80°	182.7	12.1
80°-90°	79.6	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°	294.9	19.5
0°-40°	524.1	34.6
0°-60°	1024.3	67.6
0°-90°	1515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1515.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	240	240	240	240	240	
5°	241	243	259	275	280	23
15°	235	281	351	395	413	66
25°	218	300	395	458	482	101
35°	196	289	388	453	475	122
45°	168	261	348	399	414	130
55°	137	228	305	335	340	122
65°	103	193	261	274	277	101
75°	67	146	204	208	209	70
85°	27	67	94	89	89	28
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°	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3
2.5°	242.1	242.1	241.2	242.1	241.2	242.1	241.2	241.2	242.1	242.1	243.0
5°	241.2	241.2	241.2	241.2	242.1	243.8	246.5	250.0	254.4	258.8	263.1
7.5°	241.2	241.2	241.2	242.1	246.5	253.5	261.4	269.3	278.0	285.1	291.2
10°	238.6	239.5	239.5	244.7	254.4	265.8	278.0	287.7	298.2	307.9	316.6
12.5°	237.7	238.6	240.3	250.0	264.0	279.8	293.0	306.1	319.3	330.7	341.2
15°	235.1	235.1	241.2	255.2	272.8	289.5	306.1	321.9	336.8	350.8	363.1
17.5°	231.6	231.6	241.2	259.6	278.9	298.2	316.6	334.2	351.7	366.6	380.7
20°	228.1	228.9	241.2	263.1	284.2	306.1	325.4	344.7	363.1	379.8	395.6
22.5°	223.7	224.5	241.2	264.9	287.7	310.5	331.6	351.7	371.0	388.6	405.2
25°	218.4	221.0	239.5	264.0	288.6	312.3	334.2	356.1	377.2	394.7	412.2
27.5°	213.1	216.6	236.8	262.3	287.7	312.3	335.1	357.9	378.0	397.3	414.9
30°	207.0	211.4	234.2	260.5	285.9	310.5	334.2	357.0	378.0	397.3	414.9
32.5°	201.7	207.0	230.7	257.0	282.4	307.0	330.7	353.5	374.5	393.8	411.4
35°	195.6	200.9	225.4	251.7	277.2	301.7	325.4	347.3	369.3	387.7	405.2
37.5°	189.5	195.6	220.2	246.5	271.9	296.5	319.3	341.2	361.4	380.7	397.3
40°	182.4	189.5	214.0	240.3	264.9	288.6	311.4	332.4	352.6	371.0	386.8
42.5°	175.4	183.3	207.0	233.3	257.9	281.6	303.5	323.7	343.0	359.6	374.5
45°	168.4	177.2	200.9	225.4	250.0	272.8	293.8	314.0	331.6	348.2	362.3
47.5°	160.5	170.2	193.8	218.4	242.1	264.0	285.1	304.4	321.9	336.8	350.0
50°	152.6	163.1	186.8	210.5	233.3	256.1	276.3	294.7	311.4	326.3	338.6
52.5°	144.7	156.1	178.9	202.6	225.4	247.3	267.5	285.1	301.7	315.8	326.3
55°	136.8	148.2	171.9	194.7	217.5	238.6	258.8	276.3	292.1	305.2	314.9
57.5°	128.9	141.2	164.0	186.0	208.8	230.7	250.0	267.5	282.4	294.7	304.4
60°	119.3	133.3	155.3	178.1	200.0	221.9	241.2	257.9	272.8	284.2	293.0
62.5°	110.5	125.4	147.4	169.3	191.2	212.3	231.6	248.2	262.3	272.8	280.7
65°	102.6	116.7	138.6	159.6	181.6	203.5	221.9	238.6	251.7	261.4	268.4
67.5°	93.0	107.9	128.9	150.0	171.9	193.0	211.4	227.2	240.3	249.1	255.2
70°	84.2	99.1	119.3	140.3	161.4	181.6	200.0	215.8	227.2	235.9	240.3
72.5°	75.4	90.3	109.6	129.8	150.0	170.2	187.7	201.7	213.1	221.0	224.5
75°	66.7	80.7	99.1	118.4	136.8	156.1	173.7	187.7	197.4	204.4	207.0
77.5°	57.0	71.0	87.7	105.3	122.8	141.2	157.0	170.2	179.8	185.1	187.7
80°	48.2	59.6	74.6	91.2	107.0	123.7	137.7	149.1	157.0	160.5	159.6
82.5°	38.6	47.4	59.6	73.7	86.8	100.9	113.1	122.8	128.1	129.8	129.8
85°	27.2	32.5	41.2	50.9	61.4	71.9	81.6	88.6	93.0	93.9	93.9
87.5°	14.0	15.8	19.3	24.6	29.8	36.0	43.0	47.4	49.1	50.0	50.0
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°	240.3	240.3	240.3	240.3	240.3	240.3	240.3	240.3
2.5°	243.0	243.8	244.7	244.7	244.7	245.6	245.6	245.6
5°	266.6	271.0	273.7	275.4	277.2	278.9	280.7	279.8
7.5°	296.5	301.7	306.1	309.6	312.3	314.9	316.6	316.6
10°	323.7	330.7	336.8	342.1	346.5	348.2	350.8	350.8
12.5°	350.8	358.7	365.8	372.8	377.2	380.7	383.3	383.3
15°	373.7	383.3	391.2	399.1	405.2	409.6	411.4	413.1
17.5°	393.0	403.5	413.1	421.9	428.0	432.4	435.1	436.8
20°	407.9	420.1	430.7	439.4	447.3	451.7	454.4	456.1
22.5°	419.3	432.4	443.8	453.5	460.5	465.8	469.3	470.1
25°	427.2	441.2	453.5	463.1	471.0	476.3	479.8	481.5
27.5°	430.7	444.7	457.9	468.4	476.3	482.4	485.0	485.9
30°	431.5	445.6	458.7	469.3	478.0	483.3	485.9	487.7
32.5°	428.0	442.1	455.2	465.8	473.6	478.9	482.4	483.3
35°	421.0	435.1	447.3	457.9	465.8	471.0	474.5	475.4
37.5°	412.2	425.4	437.7	447.3	455.2	460.5	463.1	464.0
40°	400.8	414.0	424.5	434.2	441.2	445.6	449.1	450.0
42.5°	388.6	400.8	411.4	419.3	425.4	430.7	432.4	433.3
45°	374.5	385.9	395.6	402.6	407.9	412.2	414.0	414.0
47.5°	361.4	371.9	379.8	385.9	389.4	393.0	393.8	394.7
50°	348.2	357.0	364.0	368.4	371.9	374.5	375.4	375.4
52.5°	335.9	343.0	348.2	352.6	354.4	357.0	357.9	357.9
55°	323.7	328.9	333.3	335.9	337.7	339.4	339.4	340.3
57.5°	311.4	315.8	318.4	320.2	321.9	322.8	323.7	323.7
60°	298.2	301.7	303.5	304.4	305.2	307.0	307.0	307.9
62.5°	285.1	287.7	288.6	289.5	290.3	291.2	292.1	292.1
65°	271.0	272.8	273.7	274.5	275.4	276.3	278.0	277.2
67.5°	257.0	257.9	258.8	259.6	260.5	262.3	263.1	263.1
70°	242.1	242.1	243.0	243.8	244.7	246.5	247.3	248.2
72.5°	226.3	225.4	226.3	227.2	228.9	230.7	231.6	231.6
75°	207.9	207.9	207.9	207.9	207.9	208.8	208.8	208.8
77.5°	186.8	182.4	181.6	180.7	180.7	180.7	180.7	181.6
80°	157.9	154.4	153.5	152.6	153.5	153.5	153.5	153.5
82.5°	128.1	124.6	123.7	122.8	122.8	122.8	122.8	123.7
85°	92.1	90.3	89.5	87.7	88.6	88.6	89.5	88.6
87.5°	50.0	47.4	47.4	46.5	48.2	47.4	47.4	46.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)