

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: P188333

Luminaire Tested: **22SR-LD2-19-C-UNV-L840-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188333  
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-LD2-19-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**

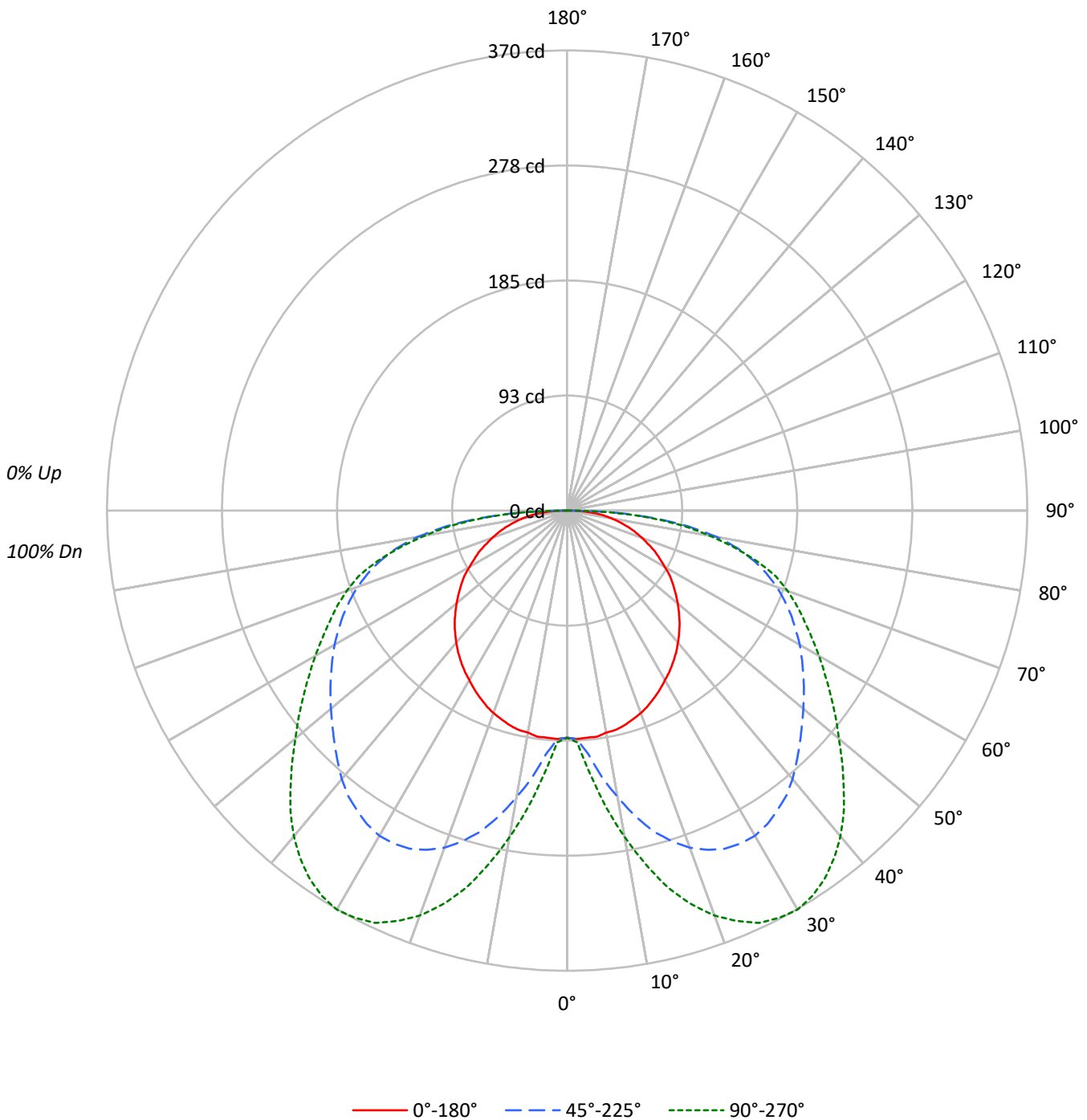
Lumens per Lamp: N/A  
Luminaire Lumens: 1151.0 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 2.19 / 2  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (A<sub>in</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	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°	535	535	535
5°	539	578	625
10°	539	696	793
15°	542	809	952
20°	540	900	1080
25°	536	970	1183
30°	532	1021	1254
35°	532	1053	1292
40°	530	1078	1308
45°	530	1096	1303
50°	529	1130	1300
55°	531	1185	1321
60°	531	1265	1371
65°	541	1377	1460
70°	548	1536	1616
75°	573	1758	1795
80°	619	2057	1967
85°	696	2397	2263



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.8	1.7
10°-20°	72.8	6.3
20°-30°	131.4	11.4
30°-40°	174.1	15.1
40°-50°	191.1	16.6
50°-60°	189.0	16.4
60°-70°	173.5	15.1
70°-80°	138.8	12.1
80°-90°	60.5	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°	224.1	19.5
0°-40°	398.2	34.6
0°-60°	778.2	67.6
0°-90°	1151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	183	183	183	183	183	
5°	183	185	197	209	213	17
15°	179	214	267	300	314	50
25°	166	228	300	348	366	77
35°	149	220	294	344	361	93
45°	128	199	265	303	314	99
55°	104	173	232	254	259	93
65°	78	146	199	208	211	77
75°	51	111	155	158	159	53
85°	21	51	71	67	67	22
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°	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6
2.5°	183.9	183.9	183.3	183.9	183.3	183.9	183.3	183.3	183.9	183.9	184.6
5°	183.3	183.3	183.3	183.3	183.9	185.3	187.3	189.9	193.3	196.6	199.9
7.5°	183.3	183.3	183.3	183.9	187.3	192.6	198.6	204.6	211.2	216.6	221.2
10°	181.3	181.9	181.9	185.9	193.3	201.9	211.2	218.6	226.6	233.9	240.6
12.5°	180.6	181.3	182.6	189.9	200.6	212.6	222.6	232.6	242.6	251.2	259.2
15°	178.6	178.6	183.3	193.9	207.2	219.9	232.6	244.6	255.9	266.6	275.9
17.5°	175.9	175.9	183.3	197.2	211.9	226.6	240.6	253.9	267.2	278.5	289.2
20°	173.3	173.9	183.3	199.9	215.9	232.6	247.2	261.9	275.9	288.5	300.5
22.5°	169.9	170.6	183.3	201.2	218.6	235.9	251.9	267.2	281.9	295.2	307.9
25°	165.9	167.9	181.9	200.6	219.2	237.2	253.9	270.6	286.5	299.9	313.2
27.5°	161.9	164.6	179.9	199.2	218.6	237.2	254.6	271.9	287.2	301.9	315.2
30°	157.3	160.6	177.9	197.9	217.2	235.9	253.9	271.2	287.2	301.9	315.2
32.5°	153.3	157.3	175.3	195.3	214.6	233.2	251.2	268.6	284.5	299.2	312.5
35°	148.6	152.6	171.3	191.3	210.6	229.2	247.2	263.9	280.5	294.5	307.9
37.5°	143.9	148.6	167.3	187.3	206.6	225.2	242.6	259.2	274.5	289.2	301.9
40°	138.6	143.9	162.6	182.6	201.2	219.2	236.6	252.6	267.9	281.9	293.9
42.5°	133.3	139.3	157.3	177.3	195.9	213.9	230.6	245.9	260.6	273.2	284.5
45°	127.9	134.6	152.6	171.3	189.9	207.2	223.2	238.6	251.9	264.6	275.2
47.5°	121.9	129.3	147.3	165.9	183.9	200.6	216.6	231.2	244.6	255.9	265.9
50°	116.0	123.9	141.9	159.9	177.3	194.6	209.9	223.9	236.6	247.9	257.2
52.5°	110.0	118.6	135.9	153.9	171.3	187.9	203.2	216.6	229.2	239.9	247.9
55°	104.0	112.6	130.6	147.9	165.3	181.3	196.6	209.9	221.9	231.9	239.2
57.5°	98.0	107.3	124.6	141.3	158.6	175.3	189.9	203.2	214.6	223.9	231.2
60°	90.6	101.3	117.9	135.3	151.9	168.6	183.3	195.9	207.2	215.9	222.6
62.5°	84.0	95.3	112.0	128.6	145.3	161.3	175.9	188.6	199.2	207.2	213.2
65°	78.0	88.6	105.3	121.3	137.9	154.6	168.6	181.3	191.3	198.6	203.9
67.5°	70.6	82.0	98.0	114.0	130.6	146.6	160.6	172.6	182.6	189.3	193.9
70°	64.0	75.3	90.6	106.6	122.6	137.9	151.9	163.9	172.6	179.3	182.6
72.5°	57.3	68.6	83.3	98.6	114.0	129.3	142.6	153.3	161.9	167.9	170.6
75°	50.6	61.3	75.3	90.0	104.0	118.6	131.9	142.6	149.9	155.3	157.3
77.5°	43.3	54.0	66.6	80.0	93.3	107.3	119.3	129.3	136.6	140.6	142.6
80°	36.7	45.3	56.6	69.3	81.3	94.0	104.6	113.3	119.3	121.9	121.3
82.5°	29.3	36.0	45.3	56.0	66.0	76.6	86.0	93.3	97.3	98.6	98.6
85°	20.7	24.7	31.3	38.7	46.6	54.6	62.0	67.3	70.6	71.3	71.3
87.5°	10.7	12.0	14.7	18.7	22.7	27.3	32.7	36.0	37.3	38.0	38.0
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°	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6
2.5°	184.6	185.3	185.9	185.9	185.9	186.6	186.6	186.6
5°	202.6	205.9	207.9	209.2	210.6	211.9	213.2	212.6
7.5°	225.2	229.2	232.6	235.2	237.2	239.2	240.6	240.6
10°	245.9	251.2	255.9	259.9	263.2	264.6	266.6	266.6
12.5°	266.6	272.6	277.9	283.2	286.5	289.2	291.2	291.2
15°	283.9	291.2	297.2	303.2	307.9	311.2	312.5	313.9
17.5°	298.5	306.5	313.9	320.5	325.2	328.5	330.5	331.9
20°	309.9	319.2	327.2	333.9	339.9	343.2	345.2	346.5
22.5°	318.5	328.5	337.2	344.5	349.9	353.8	356.5	357.2
25°	324.5	335.2	344.5	351.9	357.8	361.8	364.5	365.8
27.5°	327.2	337.9	347.9	355.8	361.8	366.5	368.5	369.2
30°	327.9	338.5	348.5	356.5	363.2	367.2	369.2	370.5
32.5°	325.2	335.9	345.9	353.8	359.8	363.8	366.5	367.2
35°	319.9	330.5	339.9	347.9	353.8	357.8	360.5	361.2
37.5°	313.2	323.2	332.5	339.9	345.9	349.9	351.9	352.5
40°	304.5	314.5	322.5	329.9	335.2	338.5	341.2	341.9
42.5°	295.2	304.5	312.5	318.5	323.2	327.2	328.5	329.2
45°	284.5	293.2	300.5	305.9	309.9	313.2	314.5	314.5
47.5°	274.5	282.5	288.5	293.2	295.9	298.5	299.2	299.9
50°	264.6	271.2	276.5	279.9	282.5	284.5	285.2	285.2
52.5°	255.2	260.6	264.6	267.9	269.2	271.2	271.9	271.9
55°	245.9	249.9	253.2	255.2	256.6	257.9	257.9	258.6
57.5°	236.6	239.9	241.9	243.2	244.6	245.2	245.9	245.9
60°	226.6	229.2	230.6	231.2	231.9	233.2	233.2	233.9
62.5°	216.6	218.6	219.2	219.9	220.6	221.2	221.9	221.9
65°	205.9	207.2	207.9	208.6	209.2	209.9	211.2	210.6
67.5°	195.3	195.9	196.6	197.2	197.9	199.2	199.9	199.9
70°	183.9	183.9	184.6	185.3	185.9	187.3	187.9	188.6
72.5°	171.9	171.3	171.9	172.6	173.9	175.3	175.9	175.9
75°	157.9	157.9	157.9	157.9	157.9	158.6	158.6	158.6
77.5°	141.9	138.6	137.9	137.3	137.3	137.3	137.3	137.9
80°	119.9	117.3	116.6	116.0	116.6	116.6	116.6	116.6
82.5°	97.3	94.6	94.0	93.3	93.3	93.3	93.3	94.0
85°	70.0	68.6	68.0	66.6	67.3	67.3	68.0	67.3
87.5°	38.0	36.0	36.0	35.3	36.7	36.0	36.0	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)