

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: P188306

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24792)  
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-MR-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

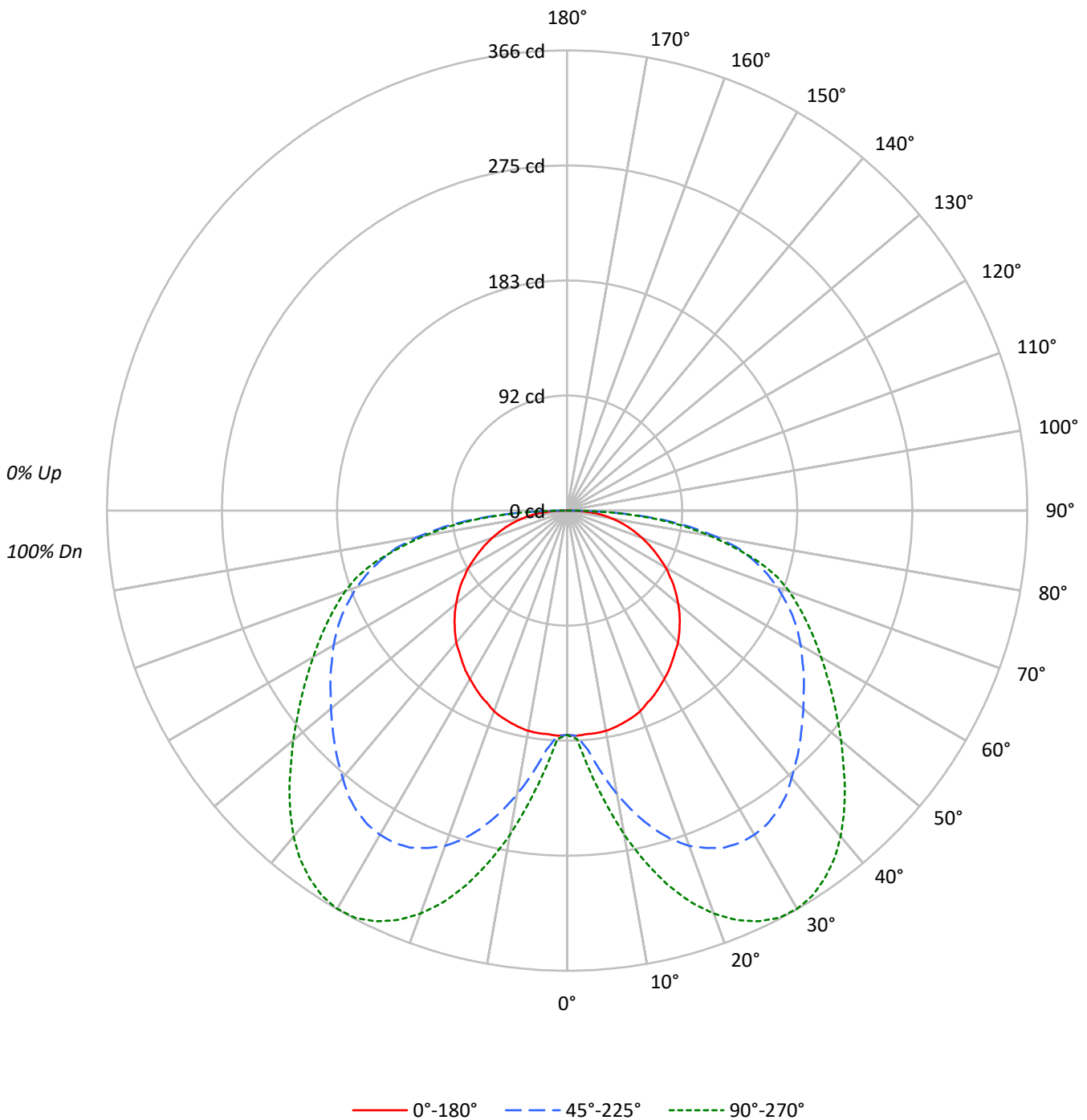
Lumens per Lamp: N/A  
Luminaire Lumens: 1139.0 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 2.21 / 2.01  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (A<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



TEST NUMBER: P188306

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L840-CD1-MR-U

### Luminous Intensity Polar Plot





TEST NUMBER: P188306

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L840-CD1-MR-U

**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	79	73	68	76	71	66	73	68	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	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	50	41	34	63	49	40	33	48	39	33	46	38	33	44	38	32	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	30	25	36	30	25	23
9	52	38	29	23	50	37	28	23	36	28	23	35	27	22	33	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°	523	523	523
5°	525	562	611
10°	529	682	779
15°	529	792	934
20°	530	885	1064
25°	526	956	1165
30°	523	1008	1237
35°	522	1044	1277
40°	525	1063	1294
45°	525	1085	1295
50°	526	1118	1297
55°	528	1174	1317
60°	531	1257	1367
65°	531	1372	1459
70°	542	1524	1610
75°	566	1742	1788
80°	607	2035	1946
85°	696	2353	2219



TEST NUMBER: P188306

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L840-CD1-MR-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.4	1.7
10°-20°	71.5	6.3
20°-30°	129.5	11.4
30°-40°	172.0	15.1
40°-50°	189.1	16.6
50°-60°	187.5	16.5
60°-70°	172.7	15.2
70°-80°	137.8	12.1
80°-90°	59.5	5.2
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°	220.3	19.3
0°-40°	392.4	34.4
0°-60°	769.0	67.5
0°-90°	1139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	178	178	178	178	178	
5°	178	180	191	204	208	17
15°	174	209	261	295	308	49
25°	163	224	296	343	360	75
35°	146	217	292	340	357	91
45°	127	196	262	300	312	98
55°	103	172	230	253	258	92
65°	77	145	198	208	210	76
75°	50	111	154	157	158	53
85°	21	51	70	66	66	21
90°	0	0	0	0	0	



TEST NUMBER: P188306

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L840-CD1-MR-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5
2.5°	179.2	179.2	179.2	179.2	178.5	178.5	178.5	178.5	178.5	179.2	179.9
5°	178.5	178.5	178.5	179.2	179.2	180.5	182.5	185.2	187.9	191.2	195.2
7.5°	178.5	178.5	178.5	179.2	182.5	187.9	193.9	199.9	205.2	210.5	216.5
10°	177.9	177.9	177.9	181.9	189.2	197.9	206.5	214.5	221.8	229.2	236.5
12.5°	176.5	176.5	178.5	185.9	196.5	207.9	217.2	227.8	237.2	245.8	254.5
15°	174.5	174.5	178.5	189.9	203.2	215.2	227.8	239.8	251.2	261.1	271.1
17.5°	172.5	172.5	179.2	193.2	207.9	222.5	236.5	249.8	262.5	273.8	284.5
20°	169.9	169.9	179.2	195.9	211.9	227.8	243.2	257.2	271.1	283.8	295.1
22.5°	165.9	167.2	179.2	197.2	214.5	231.2	247.2	263.1	277.8	290.5	303.1
25°	162.6	164.6	178.5	197.2	215.2	233.2	250.5	266.5	281.8	295.8	308.4
27.5°	158.6	161.2	177.2	196.5	215.2	233.2	251.2	267.8	283.8	297.8	311.1
30°	154.6	157.9	175.2	194.5	213.8	232.5	249.8	267.1	283.1	297.8	311.1
32.5°	150.6	154.6	171.9	191.9	211.2	229.8	247.8	265.1	281.1	295.8	309.1
35°	145.9	150.6	168.5	188.5	207.9	226.5	243.8	261.1	277.1	291.8	304.5
37.5°	141.2	146.6	164.6	184.5	203.2	221.8	239.2	255.8	271.8	285.8	298.5
40°	137.2	141.9	159.9	179.9	198.5	216.5	233.8	249.8	265.1	277.8	290.5
42.5°	131.9	137.9	155.2	175.2	193.2	210.5	227.8	243.2	257.8	269.8	281.8
45°	126.6	133.2	150.6	169.2	187.9	204.5	221.2	236.5	249.8	261.8	272.5
47.5°	121.2	127.9	145.2	163.9	181.9	198.5	214.5	229.2	241.8	253.2	263.8
50°	115.3	123.2	139.9	157.9	175.9	192.5	207.9	221.8	234.5	245.2	255.2
52.5°	109.3	117.9	134.6	152.6	169.2	185.9	201.2	214.5	226.5	237.2	245.8
55°	103.3	111.9	129.2	146.6	163.2	180.5	195.2	208.5	220.5	229.8	237.8
57.5°	96.6	106.6	123.2	140.6	157.2	173.2	188.5	201.9	212.5	221.8	229.2
60°	90.6	100.6	117.3	133.9	151.2	167.2	181.9	194.5	205.2	214.5	221.2
62.5°	83.3	94.6	110.6	127.9	144.6	159.9	175.2	187.9	198.5	206.5	211.9
65°	76.6	87.9	103.9	120.6	137.2	153.2	167.9	180.5	189.9	197.9	202.5
67.5°	70.0	81.3	97.3	113.9	129.9	145.2	159.9	171.9	181.2	187.9	191.9
70°	63.3	74.6	89.9	105.9	121.9	137.2	151.2	162.6	171.2	177.9	181.2
72.5°	56.6	68.0	82.6	97.9	113.3	127.9	141.9	152.6	160.6	166.5	169.9
75°	50.0	60.6	74.6	89.3	103.3	117.9	131.2	141.2	149.2	153.9	156.6
77.5°	43.3	53.3	66.0	79.3	93.3	106.6	118.6	128.6	135.2	139.9	141.2
80°	36.0	45.3	56.0	68.6	80.6	93.3	103.9	112.6	118.6	120.6	120.6
82.5°	29.3	36.0	44.6	55.3	65.3	75.9	85.3	92.6	95.9	97.9	97.3
85°	20.7	24.6	30.6	38.6	46.0	55.3	62.0	66.6	69.3	70.0	69.3
87.5°	10.7	11.3	14.7	18.7	22.7	28.6	31.3	35.3	36.6	36.6	36.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188306

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L840-CD1-MR-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	178.5	178.5	178.5	178.5	178.5	178.5	178.5	178.5
2.5°	179.9	179.9	181.2	181.2	181.9	181.2	181.9	181.9
5°	197.9	200.5	203.2	204.5	206.5	207.2	207.9	207.9
7.5°	219.8	223.8	227.2	229.2	232.5	233.8	234.5	234.5
10°	241.2	246.5	251.2	254.5	257.8	259.8	261.1	261.8
12.5°	261.1	267.8	273.1	277.8	281.1	283.8	285.1	285.8
15°	278.5	286.5	293.1	297.8	302.5	305.1	307.1	307.8
17.5°	293.8	301.8	309.1	315.1	319.8	323.1	325.1	326.4
20°	305.1	314.4	322.4	328.4	334.4	337.8	339.8	341.1
22.5°	313.8	323.8	332.4	339.1	345.1	349.1	351.1	352.4
25°	319.8	330.4	339.8	346.4	353.1	357.1	359.7	360.4
27.5°	323.1	334.4	343.8	351.1	357.7	361.7	364.4	365.1
30°	323.8	334.4	344.4	351.8	358.4	362.4	365.1	365.7
32.5°	321.8	332.4	341.8	349.8	355.7	359.7	362.4	363.1
35°	317.1	327.8	336.4	344.4	350.4	354.4	357.1	357.1
37.5°	309.8	320.4	329.1	336.4	342.4	345.8	348.4	349.1
40°	301.8	311.1	319.8	326.4	331.8	335.1	337.8	338.4
42.5°	292.5	301.1	308.4	314.4	319.8	323.8	325.1	325.8
45°	282.5	290.5	297.1	302.5	307.1	309.1	311.8	312.4
47.5°	272.5	279.8	285.1	289.8	293.8	296.5	297.8	297.8
50°	262.5	268.5	273.8	277.8	280.5	281.8	283.1	284.5
52.5°	253.2	257.8	262.5	265.1	267.1	269.1	269.8	270.5
55°	243.8	248.5	251.8	253.8	255.2	257.2	257.2	257.8
57.5°	234.5	237.8	240.5	241.8	243.2	243.8	244.5	245.2
60°	225.2	227.8	229.2	230.5	231.2	232.5	232.5	233.2
62.5°	215.8	217.2	218.5	219.2	219.8	221.2	221.8	221.8
65°	205.2	206.5	207.2	207.9	208.5	209.9	210.5	210.5
67.5°	194.5	195.2	195.2	196.5	197.2	198.5	198.5	199.2
70°	183.2	183.2	183.9	184.5	185.2	185.9	187.2	187.9
72.5°	171.2	170.5	171.2	171.9	173.2	173.9	174.5	175.2
75°	156.6	156.6	157.2	156.6	156.6	157.2	157.2	157.9
77.5°	140.6	138.6	136.6	136.6	136.6	135.9	135.9	136.6
80°	119.2	116.6	115.3	115.3	114.6	114.6	115.3	115.3
82.5°	95.3	94.6	91.9	91.9	92.6	91.3	91.9	92.6
85°	68.0	67.3	66.0	66.0	66.0	64.6	65.3	66.0
87.5°	36.0	35.3	34.0	34.6	34.6	33.3	34.6	34.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)