

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: P188328

Luminaire Tested: **22SR-LD2-20-C-UNV-L840-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188328  
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-LD2-20-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**

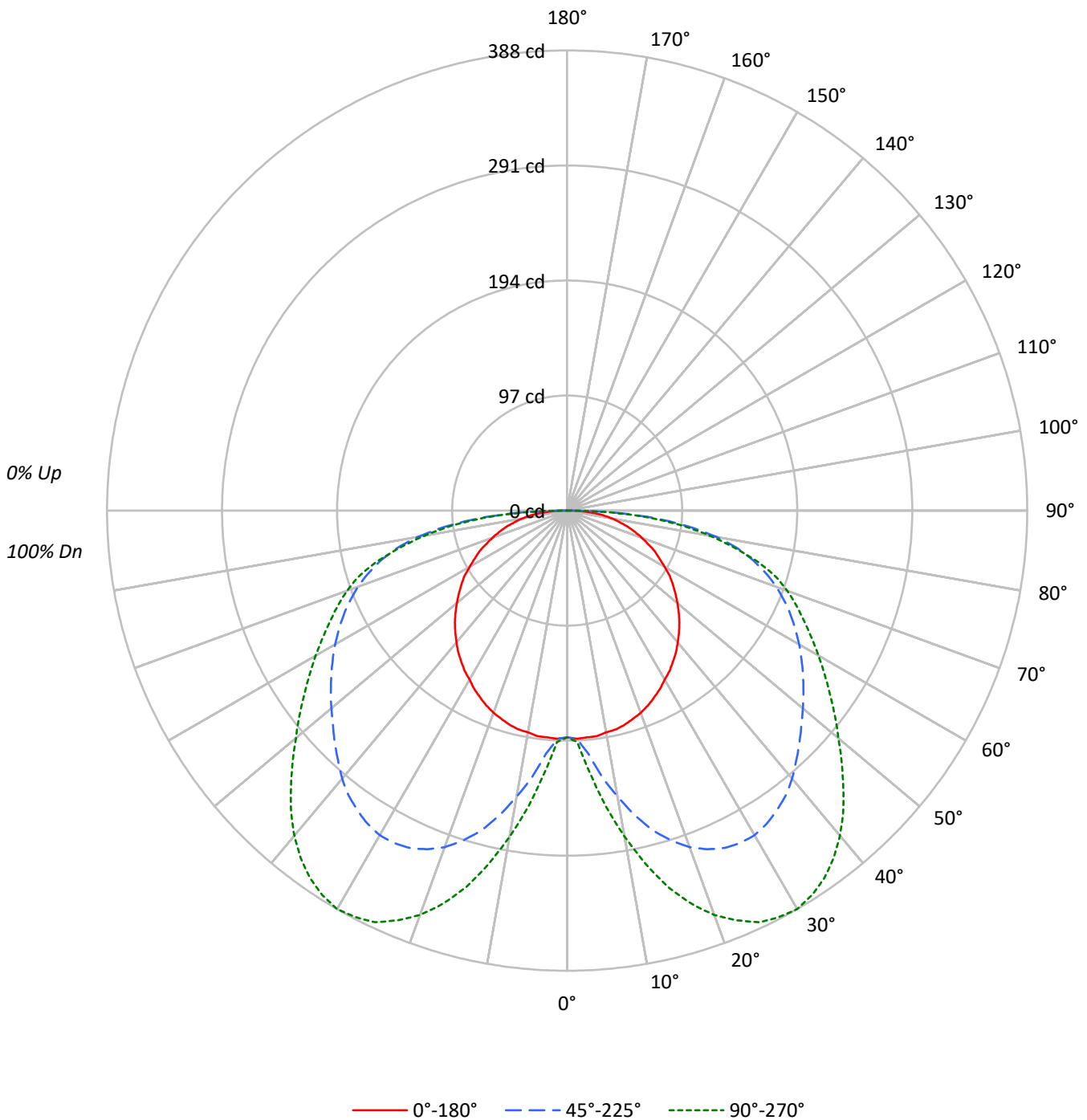
Lumens per Lamp: N/A  
Luminaire Lumens: 1205.0 lumens  
Efficiency: N/A  
Efficacy: 78.2 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 2.19 / 2  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	560	560	560
5°	564	605	654
10°	565	729	830
15°	567	847	997
20°	566	942	1131
25°	562	1015	1238
30°	557	1069	1312
35°	557	1103	1352
40°	555	1129	1369
45°	555	1148	1365
50°	553	1183	1361
55°	556	1240	1383
60°	556	1324	1435
65°	566	1441	1529
70°	574	1608	1691
75°	600	1841	1879
80°	648	2155	2060
85°	726	2508	2370



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.8	1.7
10°-20°	76.2	6.3
20°-30°	137.6	11.4
30°-40°	182.3	15.1
40°-50°	200.0	16.6
50°-60°	197.8	16.4
60°-70°	181.7	15.1
70°-80°	145.3	12.1
80°-90°	63.3	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°	234.6	19.5
0°-40°	416.9	34.6
0°-60°	814.7	67.6
0°-90°	1205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1205.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	191	191	191	191	191	
5°	192	193	206	218	222	18
15°	187	224	279	314	329	53
25°	174	239	314	365	383	80
35°	156	230	308	360	378	97
45°	134	208	277	317	329	103
55°	109	181	243	266	271	97
65°	82	153	208	218	220	80
75°	53	116	163	165	166	56
85°	22	53	75	70	70	23
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°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	192.6	192.6	191.9	192.6	191.9	192.6	191.9	191.9	192.6	192.6	193.2
5°	191.9	191.9	191.9	191.9	192.6	193.9	196.0	198.8	202.3	205.8	209.3
7.5°	191.9	191.9	191.9	192.6	196.0	201.6	207.9	214.2	221.2	226.7	231.6
10°	189.8	190.5	190.5	194.6	202.3	211.4	221.2	228.8	237.2	244.9	251.9
12.5°	189.1	189.8	191.2	198.8	210.0	222.5	233.0	243.5	253.9	263.0	271.4
15°	187.0	187.0	191.9	203.0	217.0	230.2	243.5	256.0	267.9	279.1	288.8
17.5°	184.2	184.2	191.9	206.5	221.9	237.2	251.9	265.8	279.8	291.6	302.8
20°	181.4	182.1	191.9	209.3	226.0	243.5	258.8	274.2	288.8	302.1	314.6
22.5°	177.9	178.6	191.9	210.7	228.8	247.0	263.7	279.8	295.1	309.1	322.3
25°	173.7	175.8	190.5	210.0	229.5	248.4	265.8	283.2	300.0	313.9	327.9
27.5°	169.5	172.3	188.4	208.6	228.8	248.4	266.5	284.6	300.7	316.0	330.0
30°	164.6	168.1	186.3	207.2	227.4	247.0	265.8	283.9	300.7	316.0	330.0
32.5°	160.5	164.6	183.5	204.4	224.6	244.2	263.0	281.2	297.9	313.2	327.2
35°	155.6	159.8	179.3	200.2	220.5	240.0	258.8	276.3	293.7	308.4	322.3
37.5°	150.7	155.6	175.1	196.0	216.3	235.8	253.9	271.4	287.4	302.8	316.0
40°	145.1	150.7	170.2	191.2	210.7	229.5	247.7	264.4	280.5	295.1	307.7
42.5°	139.5	145.8	164.6	185.6	205.1	223.9	241.4	257.4	272.8	286.0	297.9
45°	133.9	140.9	159.8	179.3	198.8	217.0	233.7	249.8	263.7	277.0	288.1
47.5°	127.7	135.3	154.2	173.7	192.6	210.0	226.7	242.1	256.0	267.9	278.4
50°	121.4	129.8	148.6	167.4	185.6	203.7	219.8	234.4	247.7	259.5	269.3
52.5°	115.1	124.2	142.3	161.2	179.3	196.7	212.8	226.7	240.0	251.2	259.5
55°	108.8	117.9	136.7	154.9	173.0	189.8	205.8	219.8	232.3	242.8	250.5
57.5°	102.6	112.3	130.5	147.9	166.0	183.5	198.8	212.8	224.6	234.4	242.1
60°	94.9	106.0	123.5	141.6	159.1	176.5	191.9	205.1	217.0	226.0	233.0
62.5°	87.9	99.8	117.2	134.6	152.1	168.8	184.2	197.4	208.6	217.0	223.2
65°	81.6	92.8	110.2	127.0	144.4	161.9	176.5	189.8	200.2	207.9	213.5
67.5°	74.0	85.8	102.6	119.3	136.7	153.5	168.1	180.7	191.2	198.1	203.0
70°	67.0	78.8	94.9	111.6	128.4	144.4	159.1	171.6	180.7	187.7	191.2
72.5°	60.0	71.9	87.2	103.3	119.3	135.3	149.3	160.5	169.5	175.8	178.6
75°	53.0	64.2	78.8	94.2	108.8	124.2	138.1	149.3	157.0	162.6	164.6
77.5°	45.3	56.5	69.8	83.7	97.7	112.3	124.9	135.3	143.0	147.2	149.3
80°	38.4	47.4	59.3	72.6	85.1	98.4	109.5	118.6	124.9	127.7	127.0
82.5°	30.7	37.7	47.4	58.6	69.1	80.2	90.0	97.7	101.9	103.3	103.3
85°	21.6	25.8	32.8	40.5	48.8	57.2	64.9	70.5	74.0	74.6	74.6
87.5°	11.2	12.6	15.3	19.5	23.7	28.6	34.2	37.7	39.1	39.8	39.8
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: P188328

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L840-CD1-PG-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	193.2	193.9	194.6	194.6	194.6	195.3	195.3	195.3
5°	212.1	215.6	217.7	219.1	220.5	221.9	223.2	222.5
7.5°	235.8	240.0	243.5	246.3	248.4	250.5	251.9	251.9
10°	257.4	263.0	267.9	272.1	275.6	277.0	279.1	279.1
12.5°	279.1	285.3	290.9	296.5	300.0	302.8	304.9	304.9
15°	297.2	304.9	311.2	317.4	322.3	325.8	327.2	328.6
17.5°	312.5	320.9	328.6	335.6	340.5	343.9	346.0	347.4
20°	324.4	334.2	342.5	349.5	355.8	359.3	361.4	362.8
22.5°	333.5	343.9	353.0	360.7	366.3	370.5	373.2	373.9
25°	339.8	350.9	360.7	368.4	374.6	378.8	381.6	383.0
27.5°	342.5	353.7	364.2	372.5	378.8	383.7	385.8	386.5
30°	343.2	354.4	364.9	373.2	380.2	384.4	386.5	387.9
32.5°	340.5	351.6	362.1	370.5	376.7	380.9	383.7	384.4
35°	334.9	346.0	355.8	364.2	370.5	374.6	377.4	378.1
37.5°	327.9	338.4	348.1	355.8	362.1	366.3	368.4	369.1
40°	318.8	329.3	337.7	345.3	350.9	354.4	357.2	357.9
42.5°	309.1	318.8	327.2	333.5	338.4	342.5	343.9	344.6
45°	297.9	307.0	314.6	320.2	324.4	327.9	329.3	329.3
47.5°	287.4	295.8	302.1	307.0	309.8	312.5	313.2	313.9
50°	277.0	283.9	289.5	293.0	295.8	297.9	298.6	298.6
52.5°	267.2	272.8	277.0	280.5	281.8	283.9	284.6	284.6
55°	257.4	261.6	265.1	267.2	268.6	270.0	270.0	270.7
57.5°	247.7	251.2	253.2	254.6	256.0	256.7	257.4	257.4
60°	237.2	240.0	241.4	242.1	242.8	244.2	244.2	244.9
62.5°	226.7	228.8	229.5	230.2	230.9	231.6	232.3	232.3
65°	215.6	217.0	217.7	218.4	219.1	219.8	221.2	220.5
67.5°	204.4	205.1	205.8	206.5	207.2	208.6	209.3	209.3
70°	192.6	192.6	193.2	193.9	194.6	196.0	196.7	197.4
72.5°	180.0	179.3	180.0	180.7	182.1	183.5	184.2	184.2
75°	165.3	165.3	165.3	165.3	165.3	166.0	166.0	166.0
77.5°	148.6	145.1	144.4	143.7	143.7	143.7	143.7	144.4
80°	125.6	122.8	122.1	121.4	122.1	122.1	122.1	122.1
82.5°	101.9	99.1	98.4	97.7	97.7	97.7	97.7	98.4
85°	73.3	71.9	71.2	69.8	70.5	70.5	71.2	70.5
87.5°	39.8	37.7	37.7	37.0	38.4	37.7	37.7	37.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)