

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: P188325

Luminaire Tested: **22SR-LD2-20-C-UNV-L850-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188325  
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-L850-CD1-PG-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

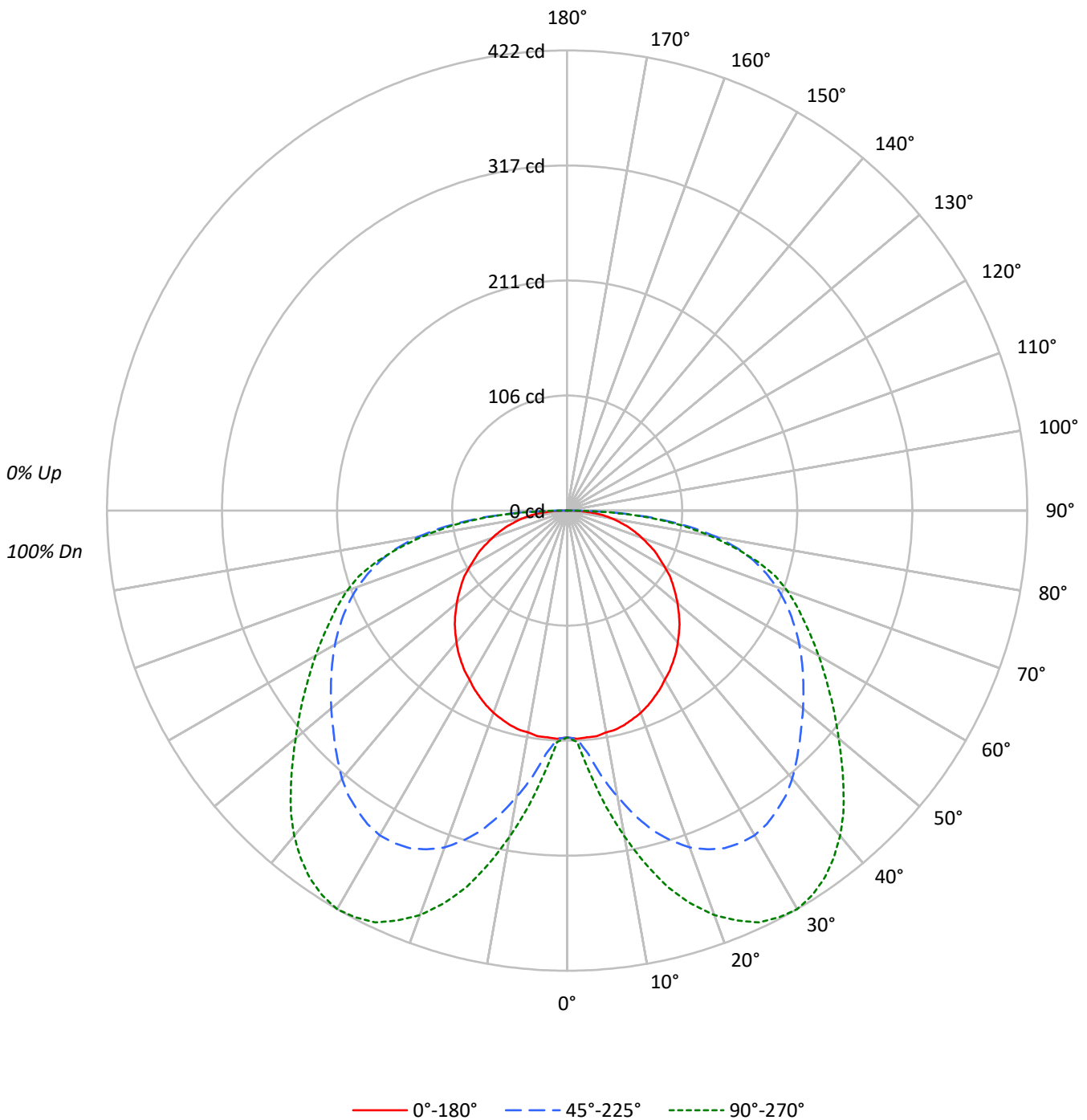
Lumens per Lamp: N/A  
Luminaire Lumens: 1311.0 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 2.19 / 2  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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



TEST NUMBER: P188325

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-PG-U

### Luminous Intensity Polar Plot





TEST NUMBER: P188325

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-PG-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	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°	609	609	609
5°	614	659	712
10°	614	793	903
15°	617	921	1084
20°	615	1025	1231
25°	611	1104	1347
30°	606	1163	1428
35°	606	1200	1472
40°	604	1228	1489
45°	604	1249	1485
50°	602	1287	1481
55°	605	1349	1504
60°	605	1441	1561
65°	616	1568	1663
70°	625	1749	1840
75°	653	2003	2045
80°	704	2344	2241
85°	790	2730	2579



TEST NUMBER: P188325

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-PG-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.6	1.7
10°-20°	82.9	6.3
20°-30°	149.7	11.4
30°-40°	198.3	15.1
40°-50°	217.6	16.6
50°-60°	215.2	16.4
60°-70°	197.7	15.1
70°-80°	158.1	12.1
80°-90°	68.9	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°	255.2	19.5
0°-40°	453.5	34.6
0°-60°	886.4	67.6
0°-90°	1311.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1311.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	208	208	208	208	208	
5°	209	210	224	238	242	20
15°	203	243	304	342	358	57
25°	189	260	342	397	417	87
35°	169	250	336	392	411	106
45°	146	226	301	345	358	112
55°	118	197	264	290	294	106
65°	89	167	226	237	240	87
75°	58	127	177	180	181	61
85°	24	58	81	77	77	24
90°	0	0	0	0	0	



TEST NUMBER: P188325

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-PG-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
2.5°	209.5	209.5	208.7	209.5	208.7	209.5	208.7	208.7	209.5	209.5	210.2
5°	208.7	208.7	208.7	208.7	209.5	211.0	213.3	216.3	220.1	223.9	227.7
7.5°	208.7	208.7	208.7	209.5	213.3	219.4	226.2	233.0	240.6	246.7	252.0
10°	206.5	207.2	207.2	211.8	220.1	230.0	240.6	249.0	258.1	266.4	274.0
12.5°	205.7	206.5	208.0	216.3	228.5	242.1	253.5	264.9	276.3	286.1	295.3
15°	203.4	203.4	208.7	220.9	236.1	250.5	264.9	278.6	291.5	303.6	314.2
17.5°	200.4	200.4	208.7	224.7	241.4	258.1	274.0	289.2	304.4	317.3	329.4
20°	197.3	198.1	208.7	227.7	245.9	264.9	281.6	298.3	314.2	328.7	342.3
22.5°	193.5	194.3	208.7	229.2	249.0	268.7	286.9	304.4	321.1	336.2	350.7
25°	189.0	191.3	207.2	228.5	249.7	270.2	289.2	308.2	326.4	341.6	356.7
27.5°	184.4	187.5	204.9	226.9	249.0	270.2	289.9	309.7	327.1	343.8	359.0
30°	179.1	182.9	202.7	225.4	247.4	268.7	289.2	308.9	327.1	343.8	359.0
32.5°	174.6	179.1	199.6	222.4	244.4	265.7	286.1	305.9	324.1	340.8	356.0
35°	169.3	173.8	195.1	217.8	239.8	261.1	281.6	300.6	319.5	335.5	350.7
37.5°	163.9	169.3	190.5	213.3	235.3	256.5	276.3	295.3	312.7	329.4	343.8
40°	157.9	163.9	185.2	208.0	229.2	249.7	269.5	287.7	305.1	321.1	334.7
42.5°	151.8	158.6	179.1	201.9	223.2	243.6	262.6	280.1	296.8	311.2	324.1
45°	145.7	153.3	173.8	195.1	216.3	236.1	254.3	271.7	286.9	301.3	313.5
47.5°	138.9	147.2	167.7	189.0	209.5	228.5	246.7	263.4	278.6	291.5	302.8
50°	132.1	141.2	161.7	182.2	201.9	221.6	239.1	255.0	269.5	282.4	293.0
52.5°	125.2	135.1	154.8	175.3	195.1	214.0	231.5	246.7	261.1	273.2	282.4
55°	118.4	128.3	148.8	168.5	188.2	206.5	223.9	239.1	252.8	264.1	272.5
57.5°	111.6	122.2	141.9	160.9	180.6	199.6	216.3	231.5	244.4	255.0	263.4
60°	103.2	115.4	134.3	154.1	173.1	192.0	208.7	223.2	236.1	245.9	253.5
62.5°	95.6	108.5	127.5	146.5	165.5	183.7	200.4	214.8	226.9	236.1	242.9
65°	88.8	100.9	119.9	138.1	157.1	176.1	192.0	206.5	217.8	226.2	232.3
67.5°	80.5	93.4	111.6	129.8	148.8	167.0	182.9	196.6	208.0	215.6	220.9
70°	72.9	85.8	103.2	121.4	139.7	157.1	173.1	186.7	196.6	204.2	208.0
72.5°	65.3	78.2	94.9	112.3	129.8	147.2	162.4	174.6	184.4	191.3	194.3
75°	57.7	69.8	85.8	102.5	118.4	135.1	150.3	162.4	170.8	176.9	179.1
77.5°	49.3	61.5	75.9	91.1	106.3	122.2	135.9	147.2	155.6	160.2	162.4
80°	41.7	51.6	64.5	78.9	92.6	107.0	119.2	129.0	135.9	138.9	138.1
82.5°	33.4	41.0	51.6	63.8	75.1	87.3	97.9	106.3	110.8	112.3	112.3
85°	23.5	28.1	35.7	44.0	53.1	62.2	70.6	76.7	80.5	81.2	81.2
87.5°	12.1	13.7	16.7	21.3	25.8	31.1	37.2	41.0	42.5	43.3	43.3
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: P188325

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-PG-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	208.0	208.0	208.0	208.0	208.0	208.0	208.0	208.0
2.5°	210.2	211.0	211.8	211.8	211.8	212.5	212.5	212.5
5°	230.7	234.5	236.8	238.3	239.8	241.4	242.9	242.1
7.5°	256.5	261.1	264.9	267.9	270.2	272.5	274.0	274.0
10°	280.1	286.1	291.5	296.0	299.8	301.3	303.6	303.6
12.5°	303.6	310.4	316.5	322.6	326.4	329.4	331.7	331.7
15°	323.3	331.7	338.5	345.4	350.7	354.5	356.0	357.5
17.5°	340.0	349.1	357.5	365.1	370.4	374.2	376.5	378.0
20°	352.9	363.6	372.7	380.3	387.1	390.9	393.2	394.7
22.5°	362.8	374.2	384.1	392.4	398.5	403.0	406.1	406.8
25°	369.6	381.8	392.4	400.8	407.6	412.1	415.2	416.7
27.5°	372.7	384.8	396.2	405.3	412.1	417.5	419.7	420.5
30°	373.4	385.6	397.0	406.1	413.7	418.2	420.5	422.0
32.5°	370.4	382.5	393.9	403.0	409.9	414.4	417.5	418.2
35°	364.3	376.5	387.1	396.2	403.0	407.6	410.6	411.4
37.5°	356.7	368.1	378.7	387.1	393.9	398.5	400.8	401.5
40°	346.9	358.3	367.4	375.7	381.8	385.6	388.6	389.4
42.5°	336.2	346.9	356.0	362.8	368.1	372.7	374.2	375.0
45°	324.1	334.0	342.3	348.4	352.9	356.7	358.3	358.3
47.5°	312.7	321.8	328.7	334.0	337.0	340.0	340.8	341.6
50°	301.3	308.9	315.0	318.8	321.8	324.1	324.9	324.9
52.5°	290.7	296.8	301.3	305.1	306.6	308.9	309.7	309.7
55°	280.1	284.6	288.4	290.7	292.2	293.7	293.7	294.5
57.5°	269.5	273.2	275.5	277.0	278.6	279.3	280.1	280.1
60°	258.1	261.1	262.6	263.4	264.1	265.7	265.7	266.4
62.5°	246.7	249.0	249.7	250.5	251.2	252.0	252.8	252.8
65°	234.5	236.1	236.8	237.6	238.3	239.1	240.6	239.8
67.5°	222.4	223.2	223.9	224.7	225.4	226.9	227.7	227.7
70°	209.5	209.5	210.2	211.0	211.8	213.3	214.0	214.8
72.5°	195.8	195.1	195.8	196.6	198.1	199.6	200.4	200.4
75°	179.9	179.9	179.9	179.9	179.9	180.6	180.6	180.6
77.5°	161.7	157.9	157.1	156.4	156.4	156.4	156.4	157.1
80°	136.6	133.6	132.8	132.1	132.8	132.8	132.8	132.8
82.5°	110.8	107.8	107.0	106.3	106.3	106.3	106.3	107.0
85°	79.7	78.2	77.4	75.9	76.7	76.7	77.4	76.7
87.5°	43.3	41.0	41.0	40.2	41.7	41.0	41.0	40.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)