

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: P188345

Luminaire Tested: **22SR-LD2-25-C-UNV-L850-CD1-PL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24639)  
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-L850-CD1-PL-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

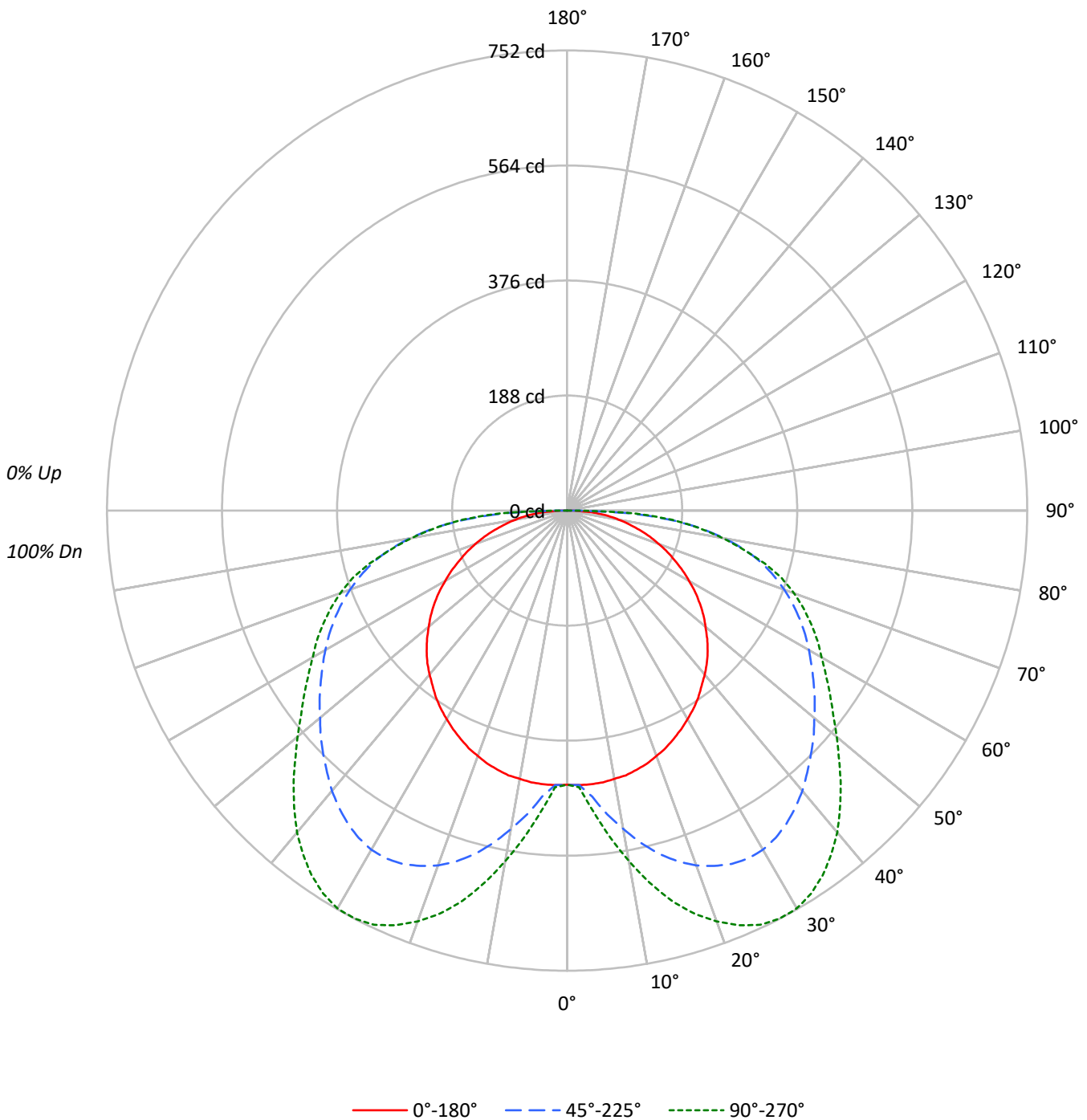
Lumens per Lamp: N/A  
Luminaire Lumens: 2485.0 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 2 / 1.87  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</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



TEST NUMBER: P188345

CATALOG NUMBER: 22SR-LD2-25-C-UNV-L850-CD1-PL-U

### Luminous Intensity Polar Plot





TEST NUMBER: P188345

CATALOG NUMBER: 22SR-LD2-25-C-UNV-L850-CD1-PL-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	88	93	89	85	89	86	83	85	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62
3	85	73	64	56	83	72	63	56	69	61	55	66	59	54	63	57	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	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	30
7	60	46	36	29	58	45	36	29	43	35	29	42	34	29	40	34	28	26
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	22	20
10	49	35	26	21	47	34	26	21	33	26	20	32	25	20	31	25	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1312	1312	1312
5°	1320	1379	1452
10°	1324	1572	1731
15°	1330	1762	2002
20°	1331	1924	2228
25°	1331	2060	2415
30°	1331	2165	2540
35°	1336	2234	2603
40°	1337	2287	2627
45°	1345	2335	2620
50°	1345	2403	2621
55°	1352	2513	2679
60°	1349	2675	2815
65°	1351	2907	3053
70°	1366	3232	3380
75°	1385	3720	3785
80°	1451	4399	4352
85°	1607	5618	5749



TEST NUMBER: P188345

CATALOG NUMBER: 22SR-LD2-25-C-UNV-L850-CD1-PL-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.5	1.9
10°-20°	160.5	6.5
20°-30°	281.9	11.3
30°-40°	371.1	14.9
40°-50°	408.1	16.4
50°-60°	404.4	16.3
60°-70°	372.2	15.0
70°-80°	298.4	12.0
80°-90°	141.9	5.7
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°	488.9	19.7
0°-40°	859.9	34.6
0°-60°	1672.5	67.3
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	448	448	448	448	448	
5°	449	450	469	488	494	43
15°	438	495	581	638	660	124
25°	412	514	637	718	747	190
35°	373	497	625	702	728	233
45°	325	451	564	617	632	250
55°	265	393	492	521	524	236
65°	195	328	419	433	440	193
75°	122	246	329	333	334	129
85°	48	116	167	168	171	50
90°	0	0	0	0	0	



TEST NUMBER: P188345

CATALOG NUMBER: 22SR-LD2-25-C-UNV-L850-CD1-PL-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9
2.5°	448.9	449.9	448.9	448.9	448.9	448.9	448.9	448.9	448.9	448.9	449.9
5°	448.9	448.9	448.9	448.9	448.9	451.8	454.6	458.5	464.2	469.0	474.7
7.5°	447.9	447.9	447.9	448.9	454.6	462.3	471.8	481.4	491.9	500.5	508.1
10°	445.1	445.1	446.0	452.7	463.2	477.6	490.9	504.3	515.8	528.2	540.6
12.5°	443.2	443.2	446.0	458.5	474.7	492.8	509.1	525.3	541.5	555.9	570.2
15°	438.4	438.4	445.1	463.2	485.2	505.3	525.3	544.4	563.5	580.7	596.9
17.5°	433.6	433.6	444.1	468.0	491.9	514.8	537.7	560.7	581.7	600.8	618.9
20°	426.9	427.9	443.2	469.9	495.7	522.4	548.2	572.1	596.0	617.0	637.1
22.5°	420.2	421.2	441.3	470.9	498.6	527.2	554.9	581.7	606.5	628.5	650.4
25°	411.7	414.5	437.4	469.0	499.5	529.1	558.7	586.4	613.2	637.1	659.0
27.5°	403.1	406.9	432.7	465.1	497.6	528.2	558.7	588.3	615.1	640.9	662.8
30°	393.5	398.3	426.9	460.4	493.8	525.3	556.8	586.4	614.1	639.9	661.9
32.5°	384.0	388.7	419.3	453.7	487.1	519.6	551.1	581.7	608.4	634.2	657.1
35°	373.4	380.1	411.7	446.0	480.4	512.9	544.4	574.0	600.8	624.6	646.6
37.5°	361.0	369.6	401.1	436.5	470.9	503.3	533.9	563.5	589.3	612.2	633.2
40°	349.6	359.1	391.6	426.0	460.4	492.8	522.4	551.1	575.9	597.9	618.0
42.5°	338.1	348.6	380.1	414.5	447.9	480.4	510.0	536.8	560.7	580.7	599.8
45°	324.7	336.2	367.7	402.1	435.5	467.1	495.7	521.5	545.4	563.5	580.7
47.5°	310.4	323.8	355.3	389.7	422.2	452.7	481.4	505.3	527.2	546.3	561.6
50°	295.1	310.4	341.9	376.3	407.8	438.4	466.1	490.0	510.0	527.2	541.5
52.5°	280.8	296.1	327.6	361.0	393.5	424.1	450.8	473.7	492.8	510.0	522.4
55°	264.6	280.8	313.3	345.8	378.2	407.8	434.6	457.5	475.6	491.9	503.3
57.5°	248.3	265.5	297.0	330.5	362.0	392.6	419.3	441.3	459.4	473.7	484.2
60°	230.2	249.3	280.8	314.2	346.7	376.3	403.1	425.0	442.2	456.5	465.1
62.5°	213.0	232.1	265.5	298.0	329.5	360.1	386.8	407.8	425.0	438.4	446.0
65°	194.8	214.9	247.4	280.8	312.3	342.9	368.7	390.6	406.9	419.3	426.9
67.5°	177.7	197.7	229.2	261.7	293.2	324.7	349.6	370.6	386.8	399.2	405.9
70°	159.5	179.6	211.1	241.6	274.1	303.7	329.5	350.5	365.8	377.3	384.0
72.5°	141.4	162.4	191.0	222.5	253.1	283.7	307.5	328.6	343.8	354.3	360.1
75°	122.3	143.3	171.9	199.6	231.1	260.7	284.6	304.7	319.0	328.6	333.3
77.5°	104.1	123.2	150.9	178.6	206.3	235.0	257.9	277.9	289.4	298.0	302.8
80°	86.0	103.2	128.0	153.8	178.6	205.3	226.4	244.5	256.0	260.7	263.6
82.5°	67.8	83.1	102.2	125.1	147.1	169.1	188.2	203.4	212.0	218.7	220.6
85°	47.8	57.3	72.6	88.8	107.0	125.1	142.3	153.8	162.4	167.1	168.1
87.5°	24.8	28.7	36.3	45.8	59.2	71.6	81.2	88.8	95.5	100.3	105.1
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: P188345

CATALOG NUMBER: 22SR-LD2-25-C-UNV-L850-CD1-PL-U

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	447.9	447.9	447.9	447.9	447.9	447.9	447.9	447.9
2.5°	449.9	449.9	451.8	451.8	452.7	452.7	451.8	452.7
5°	478.5	482.3	488.1	488.1	491.9	493.8	493.8	493.8
7.5°	513.9	519.6	526.3	530.1	534.9	537.7	538.7	538.7
10°	548.2	556.8	564.5	570.2	575.9	578.8	581.7	581.7
12.5°	580.7	591.2	600.8	608.4	615.1	618.9	621.8	622.7
15°	610.3	623.7	633.2	642.8	650.4	655.2	658.1	660.0
17.5°	635.2	649.5	660.9	670.5	679.1	684.8	689.6	690.5
20°	654.3	669.5	682.9	693.4	703.0	708.7	713.5	714.4
22.5°	668.6	685.8	700.1	711.6	721.1	727.8	731.6	733.5
25°	678.1	695.3	711.6	724.0	734.5	741.2	744.0	746.9
27.5°	682.9	701.1	717.3	729.7	740.2	746.9	750.7	751.7
30°	682.9	700.1	716.3	728.8	738.3	745.0	748.8	750.7
32.5°	676.2	693.4	708.7	721.1	729.7	736.4	740.2	742.1
35°	665.7	682.0	697.2	707.7	717.3	722.1	726.8	727.8
37.5°	651.4	666.7	681.0	690.5	699.1	703.9	707.7	708.7
40°	634.2	648.5	660.9	669.5	677.2	682.0	684.8	686.7
42.5°	615.1	627.5	638.0	645.7	651.4	656.2	658.1	660.0
45°	594.1	604.6	614.1	620.8	625.6	628.5	631.3	632.3
47.5°	573.1	582.6	590.3	596.0	597.9	600.8	601.7	602.7
50°	552.1	559.7	566.4	569.2	572.1	574.0	574.0	575.0
52.5°	531.0	538.7	541.5	545.4	547.3	548.2	548.2	548.2
55°	511.0	516.7	519.6	521.5	522.4	524.4	524.4	524.4
57.5°	491.9	495.7	496.7	498.6	499.5	501.4	501.4	501.4
60°	470.9	474.7	475.6	476.6	477.6	479.5	480.4	480.4
62.5°	451.8	454.6	453.7	455.6	456.5	458.5	460.4	461.3
65°	430.8	432.7	432.7	433.6	436.5	437.4	439.4	440.3
67.5°	409.7	410.7	410.7	412.6	414.5	416.4	417.4	418.3
70°	385.9	387.8	386.8	388.7	390.6	392.6	394.5	394.5
72.5°	361.0	362.0	362.9	362.0	363.9	365.8	366.8	367.7
75°	332.4	334.3	334.3	332.4	333.3	333.3	334.3	334.3
77.5°	299.0	298.0	295.1	293.2	293.2	294.2	294.2	295.1
80°	260.7	258.8	256.9	255.0	255.0	256.0	256.0	257.9
82.5°	218.7	216.8	214.9	213.9	214.9	214.9	215.9	216.8
85°	169.1	166.2	169.1	167.1	169.1	169.1	169.1	171.0
87.5°	105.1	106.0	108.9	107.9	107.0	107.9	111.7	109.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)