

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: P188267

Luminaire Tested: **22SR-LD2-29-C-UNV-L850-CD1-BR-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24796)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-29-C-UNV-L850-CD1-BR-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH BELLADONNA ROSE  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

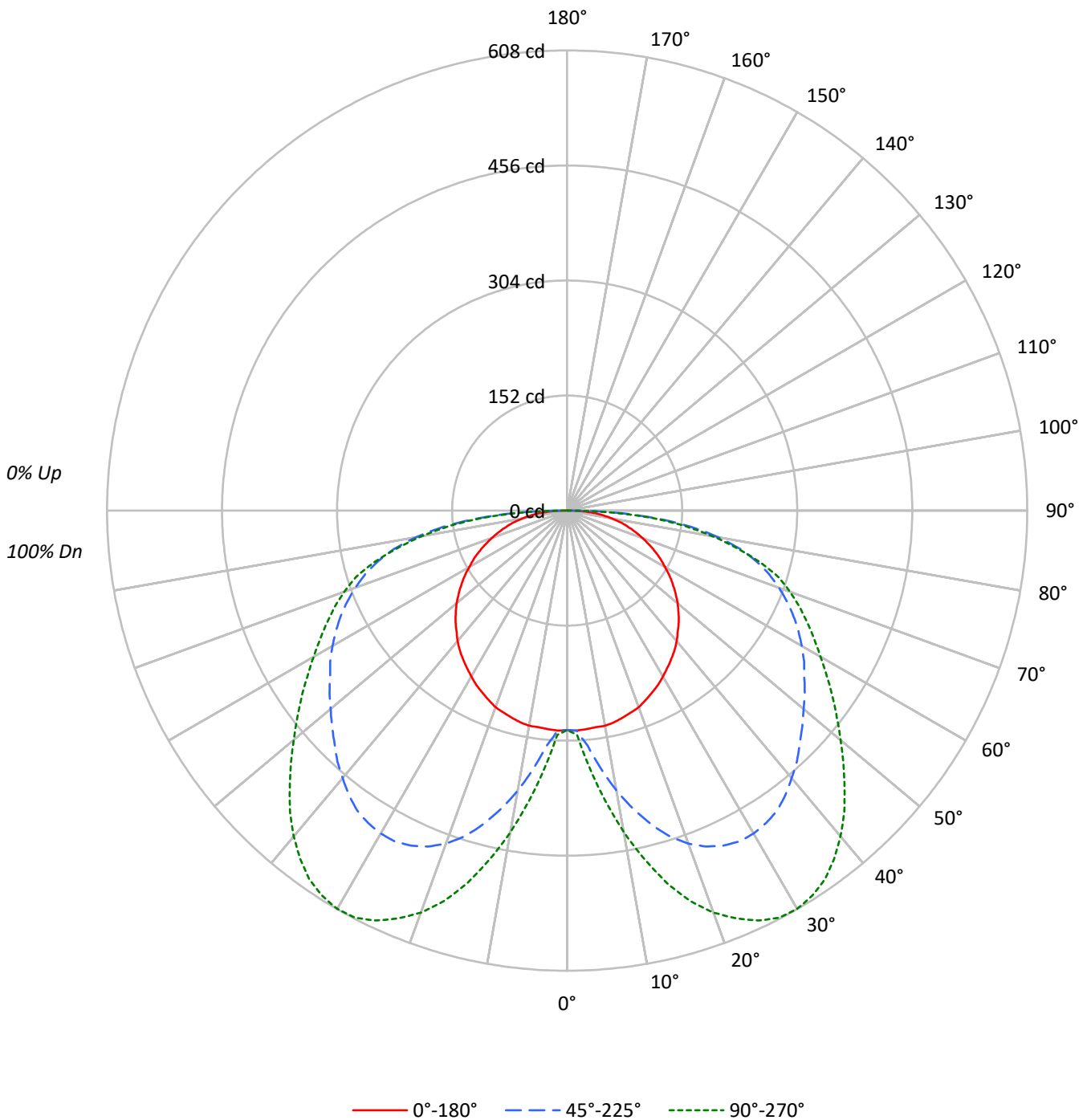
Lumens per Lamp: N/A  
Luminaire Lumens: 1893.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 2.23 / 2.03  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (A<sub>in</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	88	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	64	62
3	85	73	64	56	83	72	63	56	68	61	55	66	59	54	63	57	53	50
4	78	64	54	46	75	63	53	46	60	52	45	57	50	45	55	49	44	42
5	71	56	46	39	69	55	46	39	53	45	38	51	44	38	49	43	37	35
6	65	50	41	33	63	49	40	33	47	39	33	46	38	33	44	37	32	30
7	60	45	36	29	58	44	35	29	43	35	29	41	34	28	40	33	28	26
8	56	41	32	26	54	40	32	25	39	31	25	38	30	25	36	30	25	23
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	18

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

	0°	45°	90°
0°	849	849	849
5°	853	918	1003
10°	859	1118	1284
15°	859	1302	1546
20°	862	1460	1762
25°	858	1579	1932
30°	856	1667	2056
35°	857	1731	2125
40°	861	1765	2149
45°	864	1802	2148
50°	869	1860	2150
55°	871	1953	2187
60°	876	2097	2267
65°	889	2288	2427
70°	907	2550	2684
75°	946	2928	2991
80°	1016	3424	3292
85°	1163	4011	3822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.6	1.7
10°-20°	117.4	6.2
20°-30°	213.8	11.3
30°-40°	285.0	15.1
40°-50°	314.0	16.6
50°-60°	312.1	16.5
60°-70°	287.7	15.2
70°-80°	230.7	12.2
80°-90°	100.7	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°	362.8	19.2
0°-40°	647.8	34.2
0°-60°	1273.9	67.3
0°-90°	1893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	290	290	290	290	290	
5°	290	292	312	333	341	28
15°	283	342	429	487	510	80
25°	265	368	488	568	598	122
35°	240	359	484	566	594	150
45°	208	325	435	499	518	161
55°	171	286	382	421	428	153
65°	128	242	330	345	350	127
75°	84	186	259	263	264	88
85°	35	85	119	112	114	35
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°	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9
2.5°	291.0	291.0	291.0	289.9	289.9	289.9	289.9	289.9	289.9	291.0	291.0
5°	289.9	289.9	291.0	289.9	291.0	293.2	296.5	302.1	305.5	312.2	316.6
7.5°	288.7	289.9	289.9	292.1	296.5	305.5	314.4	325.5	335.6	344.5	352.3
10°	288.7	288.7	289.9	295.4	307.7	322.2	336.7	350.1	362.3	375.7	386.8
12.5°	286.5	286.5	289.9	302.1	320.0	338.9	354.5	372.4	389.1	403.6	416.9
15°	283.2	284.3	291.0	308.8	331.1	352.3	372.4	392.4	412.5	429.2	444.8
17.5°	279.8	280.9	292.1	315.5	340.0	364.6	386.8	410.3	431.4	451.5	468.2
20°	276.5	276.5	293.2	320.0	346.7	374.6	399.1	423.6	447.0	468.2	487.2
22.5°	270.9	273.1	293.2	323.3	352.3	380.2	406.9	433.7	458.2	480.5	500.6
25°	265.3	268.7	292.1	323.3	353.4	383.5	411.4	439.2	464.9	488.3	509.5
27.5°	259.8	263.1	289.9	322.2	354.5	384.6	414.7	442.6	469.3	492.8	515.1
30°	253.1	258.6	286.5	318.8	352.3	383.5	412.5	441.5	468.2	492.8	515.1
32.5°	246.4	253.1	283.2	315.5	348.9	379.0	410.3	438.1	464.9	489.4	512.8
35°	239.7	246.4	277.6	311.0	343.4	374.6	404.7	432.6	458.2	483.8	505.0
37.5°	233.0	240.8	270.9	304.4	336.7	366.8	396.9	424.8	450.4	473.8	495.0
40°	225.2	234.1	264.2	296.5	327.8	357.9	386.8	413.6	439.2	461.5	481.6
42.5°	216.3	226.3	256.4	288.7	320.0	348.9	377.9	403.6	427.0	449.3	468.2
45°	208.5	219.6	248.6	279.8	311.0	338.9	367.9	392.4	414.7	434.8	452.6
47.5°	199.6	211.8	240.8	270.9	301.0	330.0	356.7	380.2	401.3	421.4	438.1
50°	190.6	202.9	231.9	262.0	292.1	320.0	345.6	369.0	389.1	408.0	423.6
52.5°	180.6	195.1	223.0	253.1	282.1	309.9	334.5	357.9	377.9	395.8	409.1
55°	170.6	185.1	214.0	244.1	272.0	299.9	324.4	346.7	365.7	382.4	395.8
57.5°	160.5	176.1	205.1	234.1	262.0	289.9	313.3	335.6	354.5	371.2	382.4
60°	149.4	167.2	195.1	224.1	252.0	278.7	303.2	324.4	342.3	357.9	367.9
62.5°	139.4	157.2	185.1	212.9	240.8	267.6	292.1	313.3	330.0	344.5	353.4
65°	128.2	146.0	173.9	201.8	228.5	255.3	279.8	299.9	316.6	330.0	337.8
67.5°	117.1	136.0	162.8	189.5	217.4	243.0	266.4	286.5	302.1	314.4	321.1
70°	105.9	124.9	150.5	177.3	204.0	229.7	252.0	272.0	286.5	297.7	303.2
72.5°	94.8	113.7	138.2	163.9	189.5	215.2	236.3	255.3	268.7	279.8	284.3
75°	83.6	101.5	124.9	148.3	172.8	198.4	218.5	236.3	249.7	258.6	262.0
77.5°	72.5	89.2	110.4	132.7	156.1	179.5	199.6	215.2	226.3	234.1	236.3
80°	60.2	75.8	94.8	114.8	134.9	157.2	173.9	188.4	198.4	202.9	201.8
82.5°	47.9	60.2	75.8	92.5	109.3	128.2	142.7	153.8	161.7	165.0	162.8
85°	34.6	42.4	52.4	64.7	78.0	92.5	103.7	111.5	117.1	119.3	117.1
87.5°	17.8	20.1	24.5	30.1	37.9	47.9	54.6	61.3	61.3	63.5	62.4
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°	289.9	289.9	289.9	289.9	289.9	289.9	289.9	289.9
2.5°	292.1	292.1	293.2	294.3	294.3	294.3	294.3	296.5
5°	323.3	326.6	331.1	334.5	335.6	336.7	338.9	341.1
7.5°	359.0	365.7	370.1	377.9	380.2	382.4	383.5	386.8
10°	396.9	405.8	411.4	418.1	423.6	425.9	428.1	431.4
12.5°	428.1	439.2	448.2	457.1	461.5	467.1	468.2	471.6
15°	459.3	471.6	481.6	491.6	498.3	502.8	506.1	509.5
17.5°	485.0	497.2	509.5	521.7	528.4	534.0	537.4	540.7
20°	503.9	519.5	532.9	545.2	551.8	558.5	561.9	565.2
22.5°	518.4	535.1	549.6	561.9	570.8	578.6	581.9	583.1
25°	529.5	546.3	561.9	574.1	584.2	592.0	595.3	597.6
27.5°	535.1	553.0	569.7	583.1	593.1	600.9	604.2	606.5
30°	536.2	554.1	570.8	584.2	594.2	602.0	605.4	607.6
32.5°	532.9	551.8	567.5	580.8	590.9	598.7	602.0	603.1
35°	525.1	544.0	559.6	571.9	581.9	588.6	593.1	594.2
37.5°	513.9	531.8	546.3	558.5	568.6	575.3	578.6	579.7
40°	500.6	516.2	530.7	541.8	550.7	557.4	560.8	561.9
42.5°	486.1	500.6	512.8	524.0	531.8	537.4	540.7	541.8
45°	469.3	482.7	495.0	503.9	510.6	515.1	518.4	518.4
47.5°	452.6	464.9	476.0	482.7	488.3	491.6	493.9	495.0
50°	437.0	448.2	456.0	462.7	467.1	469.3	471.6	471.6
52.5°	421.4	430.3	437.0	441.5	445.9	447.0	449.3	449.3
55°	406.9	413.6	419.2	422.5	424.8	425.9	427.0	428.1
57.5°	391.3	396.9	400.2	402.5	404.7	405.8	405.8	406.9
60°	375.7	380.2	382.4	383.5	384.6	385.7	386.8	386.8
62.5°	359.0	362.3	363.4	364.6	365.7	366.8	367.9	367.9
65°	342.3	344.5	344.5	345.6	346.7	348.9	348.9	350.1
67.5°	324.4	325.5	325.5	326.6	327.8	330.0	331.1	332.2
70°	305.5	306.6	306.6	307.7	308.8	309.9	312.2	313.3
72.5°	285.4	285.4	285.4	286.5	288.7	289.9	292.1	293.2
75°	263.1	262.0	263.1	262.0	262.0	263.1	263.1	264.2
77.5°	235.2	231.9	229.7	228.5	227.4	227.4	228.5	229.7
80°	199.6	196.2	194.0	192.9	192.9	194.0	194.0	195.1
82.5°	161.7	158.3	156.1	156.1	155.0	156.1	156.1	157.2
85°	117.1	114.8	112.6	111.5	111.5	112.6	112.6	113.7
87.5°	62.4	61.3	60.2	60.2	58.0	60.2	60.2	60.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)