

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: P188442

Luminaire Tested: **24SR-LD2-34-C-UNV-L830-CD1-BR-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24786)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-34-C-UNV-L830-CD1-BR-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH BELLADONNA ROSE  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2077.0 lumens  
Efficiency: N/A  
Efficacy: 76.4 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 2.29 / 2.08  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

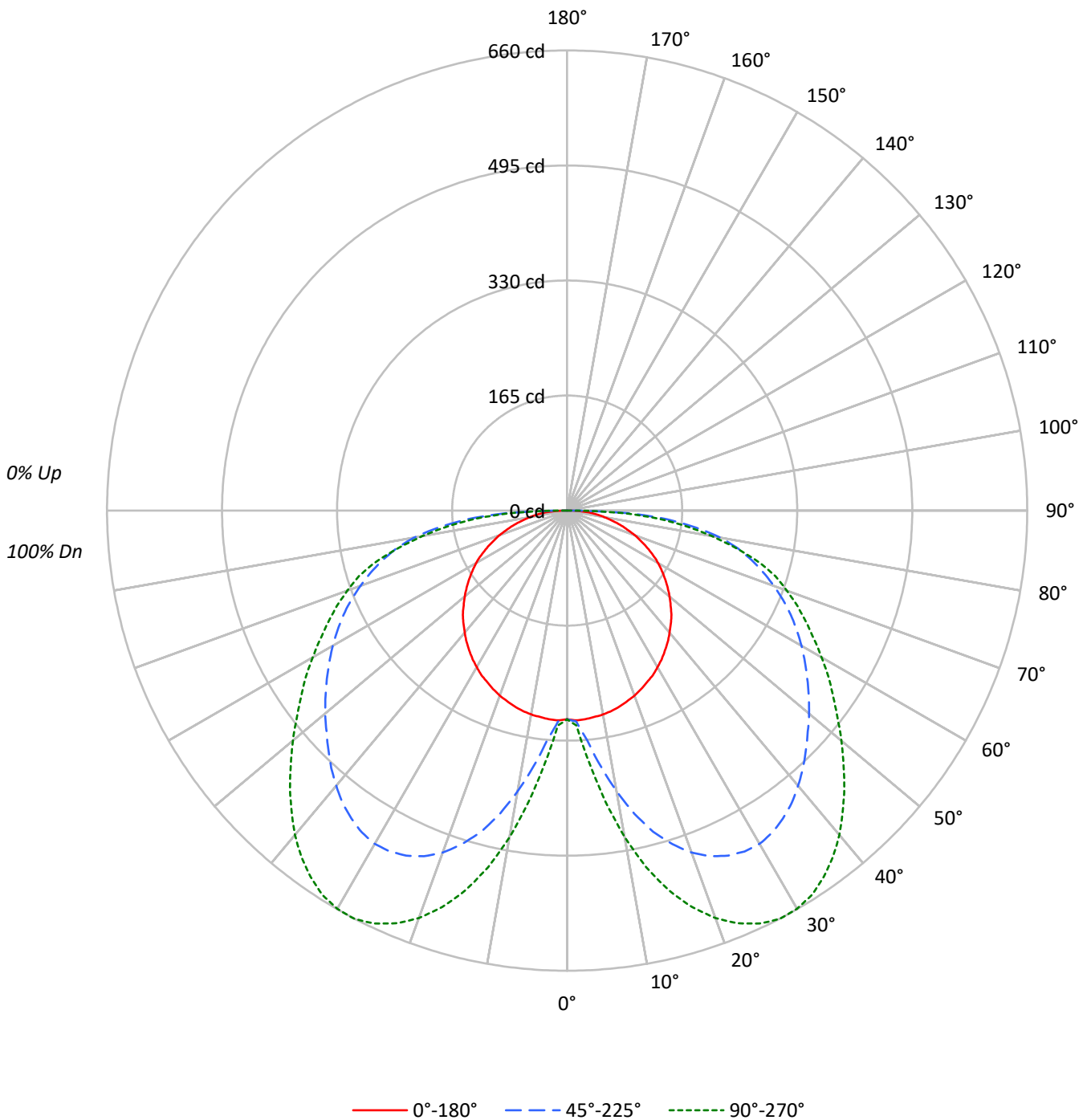
Input Watts (W): 27.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	90	103	97	93	88	93	89	85	89	86	83	85	83	80	78
2	95	85	77	70	92	83	75	69	79	73	67	76	70	66	73	68	64	62
3	85	73	64	56	83	71	63	56	68	61	55	65	59	54	63	57	53	50
4	77	64	54	46	75	62	53	46	60	52	45	57	50	45	55	49	44	41
5	71	56	46	39	68	55	46	39	53	45	38	51	44	38	49	42	37	35
6	65	50	40	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	25	54	40	31	25	39	31	25	38	30	25	36	30	25	23
9	52	37	29	23	50	37	28	22	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°	403	403	403
5°	406	447	490
10°	406	558	649
15°	405	664	785
20°	404	748	890
25°	403	811	970
30°	403	858	1024
35°	402	886	1054
40°	402	905	1067
45°	403	922	1070
50°	402	948	1075
55°	402	987	1093
60°	406	1045	1134
65°	405	1127	1203
70°	406	1242	1319
75°	408	1423	1477
80°	423	1726	1633
85°	488	2226	2015



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	33.6	1.6
10°-20°	128.4	6.2
20°-30°	234.8	11.3
30°-40°	312.2	15.0
40°-50°	343.8	16.6
50°-60°	340.7	16.4
60°-70°	311.9	15.0
70°-80°	251.1	12.1
80°-90°	120.5	5.8
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°	396.8	19.1
0°-40°	709.0	34.1
0°-60°	1393.5	67.1
0°-90°	2077.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2077.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	300	303	331	354	363	29
15°	291	366	477	540	564	82
25°	271	406	546	625	654	125
35°	245	400	539	615	642	153
45°	212	360	485	543	562	163
55°	172	318	421	456	466	153
65°	127	275	354	369	378	126
75°	78	214	274	282	284	83
85°	32	117	144	132	130	33
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°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4
2.5°	301.1	301.1	300.3	300.3	300.3	300.3	300.3	300.3	301.1	302.8	303.7
5°	300.3	300.3	300.3	300.3	301.1	304.6	308.8	315.6	322.5	331.0	338.7
7.5°	298.6	298.6	298.6	301.1	308.8	320.8	331.9	344.7	357.4	370.2	380.5
10°	296.9	296.9	298.6	308.0	323.3	341.2	358.3	375.4	391.6	408.6	423.1
12.5°	294.3	294.3	299.4	316.5	338.7	360.9	383.0	403.5	424.0	445.3	461.5
15°	290.9	290.9	302.0	325.0	352.3	379.6	405.2	430.0	453.8	476.9	494.8
17.5°	286.6	288.3	304.6	333.6	364.3	395.8	424.0	452.1	477.7	501.6	522.9
20°	282.4	284.9	307.1	340.4	374.5	409.5	440.2	469.2	496.5	522.1	544.3
22.5°	277.3	280.7	308.8	345.5	382.2	418.9	451.3	482.0	511.0	536.6	559.6
25°	271.3	276.4	309.7	348.1	388.2	424.8	458.1	489.7	519.5	546.0	569.0
27.5°	266.2	273.0	308.8	349.8	390.7	428.3	462.4	493.9	524.7	551.1	575.0
30°	259.3	267.9	307.1	348.9	389.9	428.3	461.5	493.9	524.7	552.0	575.0
32.5°	252.5	262.8	302.8	345.5	387.3	424.0	458.1	490.5	520.4	547.7	569.9
35°	244.8	256.8	297.7	340.4	381.3	418.0	451.3	482.9	513.6	539.2	561.3
37.5°	237.2	250.0	290.9	333.6	373.7	409.5	441.9	473.5	502.5	528.9	549.4
40°	228.6	243.1	284.1	325.9	364.3	399.2	431.7	462.4	490.5	515.3	534.9
42.5°	220.1	235.5	276.4	317.4	354.9	388.2	420.6	449.6	476.9	500.8	518.7
45°	211.6	226.9	267.0	308.0	343.8	377.1	407.8	436.8	462.4	484.6	501.6
47.5°	201.3	218.4	258.5	297.7	332.7	366.0	395.8	423.1	448.7	468.3	484.6
50°	191.9	209.9	249.1	287.5	321.6	354.9	383.9	410.3	434.2	453.0	467.5
52.5°	181.7	200.5	239.7	278.1	312.2	343.8	372.8	397.5	418.9	436.8	450.4
55°	171.5	191.1	231.2	267.9	302.0	333.6	360.9	384.7	405.2	420.6	433.4
57.5°	161.2	181.7	221.8	259.3	292.6	323.3	349.8	371.1	390.7	404.4	415.5
60°	151.0	172.3	211.6	249.1	283.2	312.2	337.8	358.3	375.4	388.2	397.5
62.5°	139.1	162.1	202.2	238.9	272.1	300.3	325.0	343.8	360.0	371.1	378.8
65°	127.1	151.9	191.9	228.6	261.0	288.3	311.4	329.3	343.8	354.0	359.2
67.5°	115.2	141.6	181.7	218.4	249.1	274.7	296.9	313.9	326.7	335.3	339.5
70°	103.2	129.7	169.8	205.6	235.5	259.3	280.7	296.9	308.0	315.6	319.1
72.5°	90.4	117.7	157.0	191.9	220.1	244.0	263.6	279.0	289.2	295.2	297.7
75°	78.5	104.9	143.3	176.6	203.0	225.2	244.0	259.3	269.6	273.8	276.4
77.5°	65.7	92.1	128.8	159.5	184.3	204.7	222.7	237.2	246.5	250.8	253.4
80°	54.6	78.5	111.8	139.9	162.9	182.6	198.8	214.1	221.8	222.7	220.1
82.5°	42.7	64.8	93.8	118.6	138.2	157.0	172.3	182.6	186.0	186.0	183.4
85°	31.6	48.6	73.4	93.0	110.0	123.7	133.1	141.6	143.3	144.2	140.8
87.5°	17.9	27.3	43.5	56.3	66.5	75.9	82.8	87.0	87.0	87.9	86.2
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°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4
2.5°	303.7	305.4	305.4	307.1	308.0	308.0	308.8	308.8
5°	342.1	348.9	351.5	355.7	358.3	361.7	363.4	362.6
7.5°	388.2	398.4	403.5	409.5	416.3	418.0	420.6	420.6
10°	434.2	446.2	453.8	460.7	468.3	471.8	475.2	475.2
12.5°	476.0	488.0	498.2	506.7	514.4	519.5	522.9	523.8
15°	510.2	525.5	535.7	545.1	553.7	558.8	563.0	563.9
17.5°	538.3	552.8	566.5	576.7	584.4	592.0	594.6	596.3
20°	560.5	575.8	590.3	600.6	609.1	616.8	620.2	621.9
22.5°	576.7	592.9	607.4	618.5	627.0	634.7	639.0	640.7
25°	586.9	604.0	619.3	630.4	639.8	647.5	651.8	653.5
27.5°	593.8	610.8	625.3	636.4	645.8	653.5	657.7	660.3
30°	593.8	610.8	625.3	636.4	645.8	653.5	657.7	659.4
32.5°	588.6	605.7	620.2	630.4	639.8	647.5	651.8	653.5
35°	579.3	596.3	610.0	620.2	629.6	636.4	640.7	641.5
37.5°	566.5	582.7	595.5	605.7	614.2	621.1	625.3	626.2
40°	552.0	567.3	579.3	588.6	596.3	602.3	606.6	607.4
42.5°	534.9	549.4	559.6	569.0	575.8	581.8	586.1	585.2
45°	517.0	530.6	539.2	546.8	554.5	558.8	562.2	562.2
47.5°	499.1	510.2	517.8	524.7	530.6	534.9	537.4	537.4
50°	480.3	489.7	496.5	502.5	507.6	511.0	513.6	513.6
52.5°	461.5	470.1	475.2	480.3	484.6	487.1	489.7	488.8
55°	442.8	449.6	453.0	458.1	461.5	464.9	466.6	465.8
57.5°	424.0	428.3	431.7	435.9	439.3	442.8	443.6	444.5
60°	403.5	407.8	410.3	414.6	418.0	420.6	422.3	421.4
62.5°	383.9	386.5	389.0	392.4	395.0	398.4	399.2	399.2
65°	362.6	365.1	367.7	371.1	373.7	377.1	378.8	377.9
67.5°	342.1	344.7	347.2	349.8	353.2	356.6	357.4	357.4
70°	320.8	323.3	325.0	328.4	331.0	334.4	335.3	335.3
72.5°	300.3	302.0	303.7	307.1	308.8	311.4	313.1	313.1
75°	277.3	279.0	280.7	282.4	283.2	284.1	284.9	284.1
77.5°	251.7	250.0	248.3	248.3	246.5	247.4	248.3	247.4
80°	216.7	215.0	213.3	212.4	210.7	210.7	211.6	210.7
82.5°	180.0	176.6	174.9	174.0	172.3	172.3	172.3	172.3
85°	135.6	133.9	133.1	131.4	129.7	128.8	129.7	130.5
87.5°	84.5	82.8	81.0	79.3	78.5	77.6	79.3	76.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)