

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: P188269

Luminaire Tested: **22SR-LD2-29-C-UNV-L830-CD1-BR-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188269  
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-L830-CD1-BR-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH BELLADONNA ROSE  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

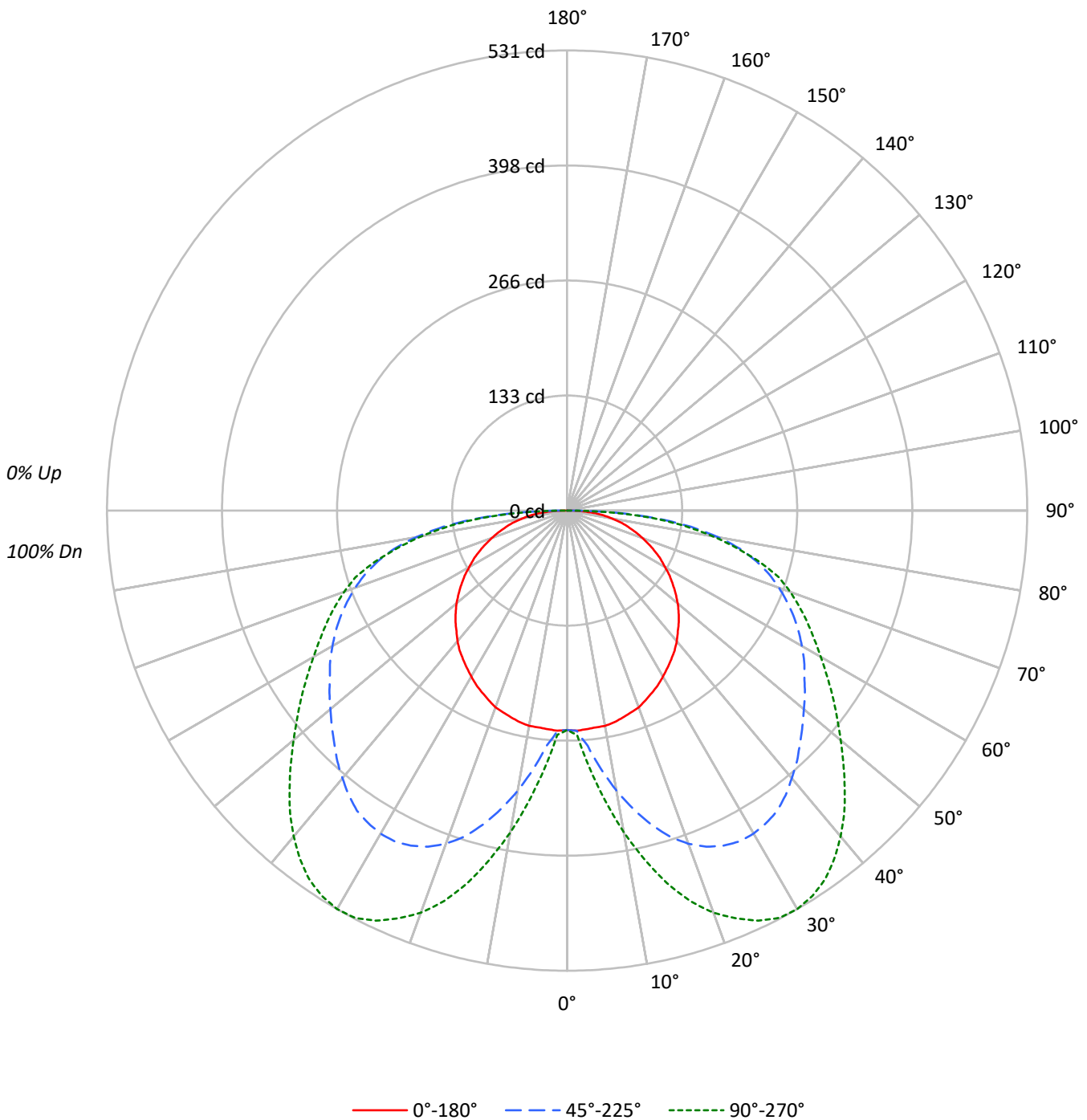
Lumens per Lamp: N/A  
Luminaire Lumens: 1654.0 lumens  
Efficiency: N/A  
Efficacy: 70.7 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 2.23 / 2.03  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): 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°	742	742	742
5°	745	802	877
10°	751	977	1122
15°	750	1138	1350
20°	753	1276	1540
25°	749	1379	1688
30°	748	1457	1796
35°	749	1512	1857
40°	753	1543	1878
45°	755	1574	1877
50°	759	1625	1878
55°	761	1707	1911
60°	765	1832	1981
65°	777	1999	2121
70°	792	2228	2345
75°	828	2559	2614
80°	888	2992	2877
85°	1015	3503	3342



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.6	1.7
10°-20°	102.6	6.2
20°-30°	186.8	11.3
30°-40°	249.0	15.1
40°-50°	274.3	16.6
50°-60°	272.7	16.5
60°-70°	251.4	15.2
70°-80°	201.6	12.2
80°-90°	88.0	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°	317.0	19.2
0°-40°	566.0	34.2
0°-60°	1113.0	67.3
0°-90°	1654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1654.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	253	253	253	253	253	
5°	253	255	273	291	298	24
15°	247	299	375	425	445	70
25°	232	322	427	496	522	107
35°	209	314	423	494	519	131
45°	182	284	380	436	453	140
55°	149	250	334	368	374	133
65°	112	211	288	302	306	111
75°	73	162	226	229	231	77
85°	30	74	104	98	99	31
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°	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3
2.5°	254.2	254.2	254.2	253.3	253.3	253.3	253.3	253.3	253.3	254.2	254.2
5°	253.3	253.3	254.2	253.3	254.2	256.2	259.1	264.0	266.9	272.7	276.6
7.5°	252.3	253.3	253.3	255.2	259.1	266.9	274.7	284.4	293.2	301.0	307.8
10°	252.3	252.3	253.3	258.1	268.8	281.5	294.2	305.9	316.6	328.3	338.0
12.5°	250.3	250.3	253.3	264.0	279.6	296.1	309.8	325.3	340.0	352.6	364.3
15°	247.4	248.4	254.2	269.8	289.3	307.8	325.3	342.9	360.4	375.0	388.7
17.5°	244.5	245.5	255.2	275.7	297.1	318.5	338.0	358.5	377.0	394.5	409.1
20°	241.6	241.6	256.2	279.6	302.9	327.3	348.7	370.2	390.6	409.1	425.7
22.5°	236.7	238.7	256.2	282.5	307.8	332.2	355.5	378.9	400.3	419.8	437.4
25°	231.8	234.8	255.2	282.5	308.8	335.1	359.4	383.8	406.2	426.6	445.2
27.5°	227.0	229.9	253.3	281.5	309.8	336.1	362.4	386.7	410.1	430.5	450.0
30°	221.1	226.0	250.3	278.6	307.8	335.1	360.4	385.7	409.1	430.5	450.0
32.5°	215.3	221.1	247.4	275.7	304.9	331.2	358.5	382.8	406.2	427.6	448.1
35°	209.4	215.3	242.5	271.8	300.0	327.3	353.6	377.9	400.3	422.8	441.3
37.5°	203.6	210.4	236.7	265.9	294.2	320.5	346.8	371.1	393.5	414.0	432.5
40°	196.8	204.6	230.9	259.1	286.4	312.7	338.0	361.4	383.8	403.3	420.8
42.5°	189.0	197.7	224.0	252.3	279.6	304.9	330.2	352.6	373.1	392.6	409.1
45°	182.2	191.9	217.2	244.5	271.8	296.1	321.4	342.9	362.4	379.9	395.5
47.5°	174.4	185.1	210.4	236.7	263.0	288.3	311.7	332.2	350.7	368.2	382.8
50°	166.6	177.3	202.6	228.9	255.2	279.6	302.0	322.4	340.0	356.5	370.2
52.5°	157.8	170.5	194.8	221.1	246.4	270.8	292.2	312.7	330.2	345.8	357.5
55°	149.0	161.7	187.0	213.3	237.7	262.0	283.5	302.9	319.5	334.1	345.8
57.5°	140.3	153.9	179.2	204.6	228.9	253.3	273.7	293.2	309.8	324.4	334.1
60°	130.5	146.1	170.5	195.8	220.1	243.5	265.0	283.5	299.0	312.7	321.4
62.5°	121.8	137.3	161.7	186.0	210.4	233.8	255.2	273.7	288.3	301.0	308.8
65°	112.0	127.6	152.0	176.3	199.7	223.1	244.5	262.0	276.6	288.3	295.1
67.5°	102.3	118.8	142.2	165.6	189.9	212.4	232.8	250.3	264.0	274.7	280.5
70°	92.5	109.1	131.5	154.9	178.3	200.7	220.1	237.7	250.3	260.1	265.0
72.5°	82.8	99.4	120.8	143.2	165.6	188.0	206.5	223.1	234.8	244.5	248.4
75°	73.1	88.6	109.1	129.6	151.0	173.4	190.9	206.5	218.2	226.0	228.9
77.5°	63.3	77.9	96.4	115.9	136.4	156.8	174.4	188.0	197.7	204.6	206.5
80°	52.6	66.2	82.8	100.3	117.9	137.3	152.0	164.6	173.4	177.3	176.3
82.5°	41.9	52.6	66.2	80.8	95.5	112.0	124.7	134.4	141.2	144.2	142.2
85°	30.2	37.0	45.8	56.5	68.2	80.8	90.6	97.4	102.3	104.2	102.3
87.5°	15.6	17.5	21.4	26.3	33.1	41.9	47.7	53.6	53.6	55.5	54.5
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: P188269

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	253.3	253.3	253.3	253.3	253.3	253.3	253.3	253.3
2.5°	255.2	255.2	256.2	257.2	257.2	257.2	257.2	259.1
5°	282.5	285.4	289.3	292.2	293.2	294.2	296.1	298.1
7.5°	313.7	319.5	323.4	330.2	332.2	334.1	335.1	338.0
10°	346.8	354.6	359.4	365.3	370.2	372.1	374.0	377.0
12.5°	374.0	383.8	391.6	399.4	403.3	408.1	409.1	412.0
15°	401.3	412.0	420.8	429.6	435.4	439.3	442.2	445.2
17.5°	423.7	434.4	445.2	455.9	461.7	466.6	469.5	472.4
20°	440.3	453.9	465.6	476.3	482.2	488.0	490.9	493.9
22.5°	452.9	467.6	480.2	490.9	498.7	505.5	508.5	509.4
25°	462.7	477.3	490.9	501.7	510.4	517.2	520.2	522.1
27.5°	467.6	483.1	497.8	509.4	518.2	525.0	528.0	529.9
30°	468.5	484.1	498.7	510.4	519.2	526.0	528.9	530.9
32.5°	465.6	482.2	495.8	507.5	516.3	523.1	526.0	527.0
35°	458.8	475.4	489.0	499.7	508.5	514.3	518.2	519.2
37.5°	449.1	464.6	477.3	488.0	496.8	502.6	505.5	506.5
40°	437.4	451.0	463.7	473.4	481.2	487.0	490.0	490.9
42.5°	424.7	437.4	448.1	457.8	464.6	469.5	472.4	473.4
45°	410.1	421.8	432.5	440.3	446.1	450.0	452.9	452.9
47.5°	395.5	406.2	415.9	421.8	426.6	429.6	431.5	432.5
50°	381.8	391.6	398.4	404.2	408.1	410.1	412.0	412.0
52.5°	368.2	376.0	381.8	385.7	389.6	390.6	392.6	392.6
55°	355.5	361.4	366.3	369.2	371.1	372.1	373.1	374.0
57.5°	341.9	346.8	349.7	351.6	353.6	354.6	354.6	355.5
60°	328.3	332.2	334.1	335.1	336.1	337.0	338.0	338.0
62.5°	313.7	316.6	317.6	318.5	319.5	320.5	321.4	321.4
65°	299.0	301.0	301.0	302.0	302.9	304.9	304.9	305.9
67.5°	283.5	284.4	284.4	285.4	286.4	288.3	289.3	290.3
70°	266.9	267.9	267.9	268.8	269.8	270.8	272.7	273.7
72.5°	249.4	249.4	249.4	250.3	252.3	253.3	255.2	256.2
75°	229.9	228.9	229.9	228.9	228.9	229.9	229.9	230.9
77.5°	205.5	202.6	200.7	199.7	198.7	198.7	199.7	200.7
80°	174.4	171.4	169.5	168.5	168.5	169.5	169.5	170.5
82.5°	141.2	138.3	136.4	136.4	135.4	136.4	136.4	137.3
85°	102.3	100.3	98.4	97.4	97.4	98.4	98.4	99.4
87.5°	54.5	53.6	52.6	52.6	50.7	52.6	52.6	52.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)