

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: P188279

Luminaire Tested: **22SR-LD2-20-C-UNV-L830-CD1-BR-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188279  
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-LD2-20-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**

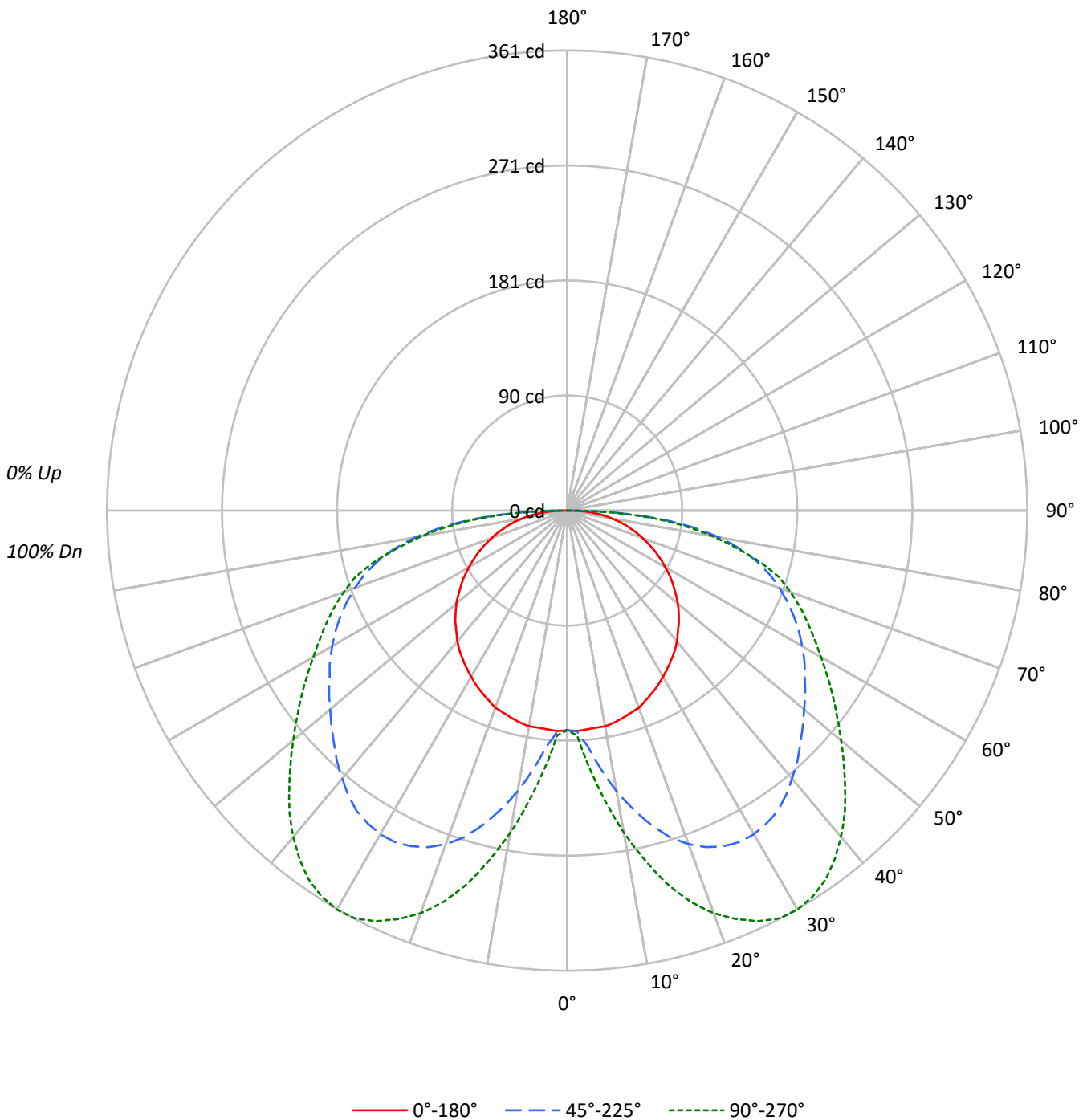
Lumens per Lamp: N/A  
Luminaire Lumens: 1126.0 lumens  
Efficiency: N/A  
Efficacy: 73.1 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 2.23 / 2.03  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.4  
Input Voltage (V): NR  
Input Current (Ain): 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°	505	505	505
5°	507	546	597
10°	511	665	763
15°	511	774	919
20°	513	868	1048
25°	510	939	1149
30°	509	992	1223
35°	510	1029	1264
40°	513	1050	1278
45°	514	1072	1278
50°	517	1106	1279
55°	519	1162	1301
60°	521	1248	1348
65°	529	1361	1443
70°	540	1517	1596
75°	563	1741	1780
80°	604	2037	1957
85°	693	2387	2273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.8	1.7
10°-20°	69.8	6.2
20°-30°	127.2	11.3
30°-40°	169.5	15.1
40°-50°	186.8	16.6
50°-60°	185.6	16.5
60°-70°	171.1	15.2
70°-80°	137.2	12.2
80°-90°	59.9	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°	215.8	19.2
0°-40°	385.3	34.2
0°-60°	757.7	67.3
0°-90°	1126.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1126.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	172	172	172	172	172	
5°	172	174	186	198	203	16
15°	168	203	255	289	303	48
25°	158	219	290	338	355	73
35°	143	214	288	337	353	89
45°	124	193	259	297	308	96
55°	102	170	228	250	255	91
65°	76	144	196	205	208	75
75°	50	110	154	156	157	52
85°	21	51	71	67	68	21
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°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4
2.5°	173.1	173.1	173.1	172.4	172.4	172.4	172.4	172.4	172.4	173.1	173.1
5°	172.4	172.4	173.1	172.4	173.1	174.4	176.4	179.7	181.7	185.7	188.3
7.5°	171.8	172.4	172.4	173.7	176.4	181.7	187.0	193.6	199.6	204.9	209.5
10°	171.8	171.8	172.4	175.7	183.0	191.6	200.3	208.2	215.5	223.5	230.1
12.5°	170.4	170.4	172.4	179.7	190.3	201.6	210.9	221.5	231.4	240.1	248.0
15°	168.4	169.1	173.1	183.7	196.9	209.5	221.5	233.4	245.4	255.3	264.6
17.5°	166.4	167.1	173.7	187.7	202.3	216.8	230.1	244.0	256.6	268.6	278.5
20°	164.5	164.5	174.4	190.3	206.2	222.8	237.4	252.0	265.9	278.5	289.8
22.5°	161.1	162.5	174.4	192.3	209.5	226.1	242.0	258.0	272.5	285.8	297.7
25°	157.8	159.8	173.7	192.3	210.2	228.1	244.7	261.3	276.5	290.5	303.1
27.5°	154.5	156.5	172.4	191.6	210.9	228.8	246.7	263.3	279.2	293.1	306.4
30°	150.5	153.8	170.4	189.7	209.5	228.1	245.4	262.6	278.5	293.1	306.4
32.5°	146.6	150.5	168.4	187.7	207.6	225.5	244.0	260.6	276.5	291.1	305.0
35°	142.6	146.6	165.1	185.0	204.2	222.8	240.7	257.3	272.5	287.8	300.4
37.5°	138.6	143.2	161.1	181.0	200.3	218.2	236.1	252.7	267.9	281.8	294.4
40°	134.0	139.3	157.2	176.4	195.0	212.9	230.1	246.0	261.3	274.5	286.5
42.5°	128.6	134.6	152.5	171.8	190.3	207.6	224.8	240.1	254.0	267.2	278.5
45°	124.0	130.6	147.9	166.4	185.0	201.6	218.8	233.4	246.7	258.6	269.2
47.5°	118.7	126.0	143.2	161.1	179.0	196.3	212.2	226.1	238.7	250.7	260.6
50°	113.4	120.7	137.9	155.8	173.7	190.3	205.6	219.5	231.4	242.7	252.0
52.5°	107.4	116.0	132.6	150.5	167.8	184.4	198.9	212.9	224.8	235.4	243.4
55°	101.5	110.1	127.3	145.2	161.8	178.4	193.0	206.2	217.5	227.5	235.4
57.5°	95.5	104.8	122.0	139.3	155.8	172.4	186.3	199.6	210.9	220.8	227.5
60°	88.9	99.5	116.0	133.3	149.9	165.8	180.4	193.0	203.6	212.9	218.8
62.5°	82.9	93.5	110.1	126.7	143.2	159.2	173.7	186.3	196.3	204.9	210.2
65°	76.3	86.9	103.4	120.0	135.9	151.9	166.4	178.4	188.3	196.3	200.9
67.5°	69.6	80.9	96.8	112.7	129.3	144.6	158.5	170.4	179.7	187.0	191.0
70°	63.0	74.3	89.5	105.4	121.4	136.6	149.9	161.8	170.4	177.1	180.4
72.5°	56.4	67.6	82.2	97.5	112.7	128.0	140.6	151.9	159.8	166.4	169.1
75°	49.7	60.3	74.3	88.2	102.8	118.0	130.0	140.6	148.5	153.8	155.8
77.5°	43.1	53.1	65.6	78.9	92.8	106.8	118.7	128.0	134.6	139.3	140.6
80°	35.8	45.1	56.4	68.3	80.2	93.5	103.4	112.1	118.0	120.7	120.0
82.5°	28.5	35.8	45.1	55.0	65.0	76.3	84.9	91.5	96.2	98.1	96.8
85°	20.6	25.2	31.2	38.5	46.4	55.0	61.7	66.3	69.6	71.0	69.6
87.5°	10.6	11.9	14.6	17.9	22.5	28.5	32.5	36.5	36.5	37.8	37.1
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°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4
2.5°	173.7	173.7	174.4	175.1	175.1	175.1	175.1	176.4
5°	192.3	194.3	196.9	198.9	199.6	200.3	201.6	202.9
7.5°	213.5	217.5	220.2	224.8	226.1	227.5	228.1	230.1
10°	236.1	241.4	244.7	248.7	252.0	253.3	254.6	256.6
12.5°	254.6	261.3	266.6	271.9	274.5	277.9	278.5	280.5
15°	273.2	280.5	286.5	292.4	296.4	299.1	301.1	303.1
17.5°	288.5	295.8	303.1	310.3	314.3	317.6	319.6	321.6
20°	299.7	309.0	317.0	324.3	328.2	332.2	334.2	336.2
22.5°	308.4	318.3	326.9	334.2	339.5	344.2	346.2	346.8
25°	315.0	324.9	334.2	341.5	347.5	352.1	354.1	355.4
27.5°	318.3	328.9	338.9	346.8	352.8	357.4	359.4	360.7
30°	319.0	329.6	339.5	347.5	353.4	358.1	360.1	361.4
32.5°	317.0	328.2	337.5	345.5	351.5	356.1	358.1	358.8
35°	312.3	323.6	332.9	340.2	346.2	350.1	352.8	353.4
37.5°	305.7	316.3	324.9	332.2	338.2	342.2	344.2	344.8
40°	297.7	307.0	315.6	322.3	327.6	331.6	333.6	334.2
42.5°	289.1	297.7	305.0	311.7	316.3	319.6	321.6	322.3
45°	279.2	287.1	294.4	299.7	303.7	306.4	308.4	308.4
47.5°	269.2	276.5	283.2	287.1	290.5	292.4	293.8	294.4
50°	259.9	266.6	271.2	275.2	277.9	279.2	280.5	280.5
52.5°	250.7	256.0	259.9	262.6	265.3	265.9	267.2	267.2
55°	242.0	246.0	249.3	251.3	252.7	253.3	254.0	254.6
57.5°	232.8	236.1	238.1	239.4	240.7	241.4	241.4	242.0
60°	223.5	226.1	227.5	228.1	228.8	229.4	230.1	230.1
62.5°	213.5	215.5	216.2	216.8	217.5	218.2	218.8	218.8
65°	203.6	204.9	204.9	205.6	206.2	207.6	207.6	208.2
67.5°	193.0	193.6	193.6	194.3	195.0	196.3	196.9	197.6
70°	181.7	182.4	182.4	183.0	183.7	184.4	185.7	186.3
72.5°	169.8	169.8	169.8	170.4	171.8	172.4	173.7	174.4
75°	156.5	155.8	156.5	155.8	155.8	156.5	156.5	157.2
77.5°	139.9	137.9	136.6	135.9	135.3	135.3	135.9	136.6
80°	118.7	116.7	115.4	114.7	114.7	115.4	115.4	116.0
82.5°	96.2	94.2	92.8	92.8	92.2	92.8	92.8	93.5
85°	69.6	68.3	67.0	66.3	66.3	67.0	67.0	67.6
87.5°	37.1	36.5	35.8	35.8	34.5	35.8	35.8	35.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)