

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: P188278

Luminaire Tested: **22SR-LD2-20-C-UNV-L835-CD1-BR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188278
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-L835-CD1-BR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH BELLADONNA ROSE

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1161.0 lumens
Efficiency: N/A
Efficacy: 75.4 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

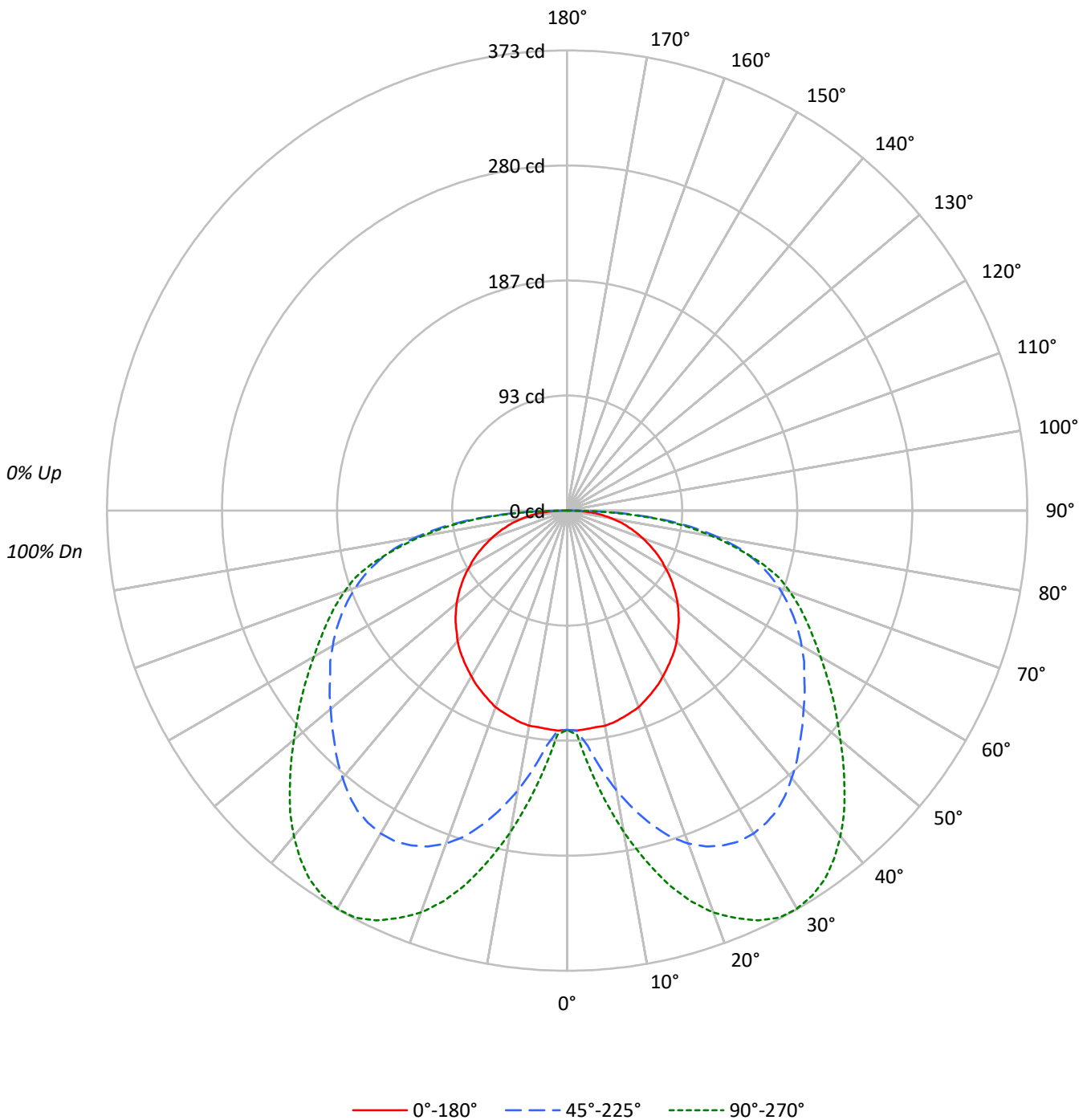
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	521	521	521
5°	523	563	615
10°	527	686	787
15°	527	798	948
20°	529	896	1081
25°	526	968	1185
30°	525	1022	1261
35°	526	1061	1303
40°	528	1083	1318
45°	530	1105	1317
50°	533	1141	1318
55°	534	1198	1341
60°	537	1286	1391
65°	545	1403	1489
70°	557	1564	1646
75°	581	1795	1834
80°	623	2099	2020
85°	713	2461	2343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.4	1.7
10°-20°	72.0	6.2
20°-30°	131.1	11.3
30°-40°	174.8	15.1
40°-50°	192.6	16.6
50°-60°	191.4	16.5
60°-70°	176.5	15.2
70°-80°	141.5	12.2
80°-90°	61.8	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°	222.5	19.2
0°-40°	397.3	34.2
0°-60°	781.3	67.3
0°-90°	1161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	178	178	178	178	178	
5°	178	179	191	204	209	17
15°	174	210	263	298	312	49
25°	163	226	300	348	366	75
35°	147	220	297	347	364	92
45°	128	199	267	306	318	99
55°	105	175	234	258	263	94
65°	79	148	202	212	215	78
75°	51	114	159	161	162	54
85°	21	52	73	69	70	22
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°	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8
2.5°	178.5	178.5	178.5	177.8	177.8	177.8	177.8	177.8	177.8	178.5	178.5
5°	177.8	177.8	178.5	177.8	178.5	179.8	181.9	185.3	187.3	191.4	194.2
7.5°	177.1	177.8	177.8	179.1	181.9	187.3	192.8	199.7	205.8	211.3	216.1
10°	177.1	177.1	177.8	181.2	188.7	197.6	206.5	214.7	222.2	230.4	237.3
12.5°	175.7	175.7	177.8	185.3	196.2	207.9	217.4	228.4	238.6	247.5	255.7
15°	173.7	174.4	178.5	189.4	203.1	216.1	228.4	240.7	253.0	263.2	272.8
17.5°	171.6	172.3	179.1	193.5	208.5	223.6	237.3	251.6	264.6	276.9	287.2
20°	169.6	169.6	179.8	196.2	212.6	229.7	244.8	259.8	274.2	287.2	298.8
22.5°	166.1	167.5	179.8	198.3	216.1	233.2	249.6	266.0	281.0	294.7	307.0
25°	162.7	164.8	179.1	198.3	216.7	235.2	252.3	269.4	285.1	299.5	312.5
27.5°	159.3	161.4	177.8	197.6	217.4	235.9	254.4	271.4	287.9	302.2	315.9
30°	155.2	158.6	175.7	195.6	216.1	235.2	253.0	270.8	287.2	302.2	315.9
32.5°	151.1	155.2	173.7	193.5	214.0	232.5	251.6	268.7	285.1	300.2	314.5
35°	147.0	151.1	170.3	190.8	210.6	229.7	248.2	265.3	281.0	296.7	309.7
37.5°	142.9	147.7	166.1	186.7	206.5	225.0	243.4	260.5	276.2	290.6	303.6
40°	138.1	143.6	162.0	181.9	201.0	219.5	237.3	253.7	269.4	283.1	295.4
42.5°	132.6	138.8	157.3	177.1	196.2	214.0	231.8	247.5	261.9	275.5	287.2
45°	127.9	134.7	152.5	171.6	190.8	207.9	225.6	240.7	254.4	266.7	277.6
47.5°	122.4	129.9	147.7	166.1	184.6	202.4	218.8	233.2	246.1	258.5	268.7
50°	116.9	124.4	142.2	160.7	179.1	196.2	212.0	226.3	238.6	250.2	259.8
52.5°	110.8	119.7	136.7	155.2	173.0	190.1	205.1	219.5	231.8	242.7	250.9
55°	104.6	113.5	131.3	149.7	166.8	183.9	199.0	212.6	224.3	234.5	242.7
57.5°	98.5	108.0	125.8	143.6	160.7	177.8	192.1	205.8	217.4	227.7	234.5
60°	91.6	102.6	119.7	137.4	154.5	170.9	186.0	199.0	209.9	219.5	225.6
62.5°	85.5	96.4	113.5	130.6	147.7	164.1	179.1	192.1	202.4	211.3	216.7
65°	78.6	89.6	106.7	123.8	140.2	156.6	171.6	183.9	194.2	202.4	207.2
67.5°	71.8	83.4	99.8	116.2	133.3	149.1	163.4	175.7	185.3	192.8	196.9
70°	65.0	76.6	92.3	108.7	125.1	140.9	154.5	166.8	175.7	182.6	186.0
72.5°	58.1	69.7	84.8	100.5	116.2	132.0	145.0	156.6	164.8	171.6	174.4
75°	51.3	62.2	76.6	90.9	106.0	121.7	134.0	145.0	153.2	158.6	160.7
77.5°	44.4	54.7	67.7	81.4	95.7	110.1	122.4	132.0	138.8	143.6	145.0
80°	36.9	46.5	58.1	70.4	82.7	96.4	106.7	115.6	121.7	124.4	123.8
82.5°	29.4	36.9	46.5	56.8	67.0	78.6	87.5	94.4	99.1	101.2	99.8
85°	21.2	26.0	32.1	39.7	47.9	56.8	63.6	68.4	71.8	73.2	71.8
87.5°	10.9	12.3	15.0	18.5	23.2	29.4	33.5	37.6	37.6	39.0	38.3
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°	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8
2.5°	179.1	179.1	179.8	180.5	180.5	180.5	180.5	181.9
5°	198.3	200.3	203.1	205.1	205.8	206.5	207.9	209.2
7.5°	220.2	224.3	227.0	231.8	233.2	234.5	235.2	237.3
10°	243.4	248.9	252.3	256.4	259.8	261.2	262.6	264.6
12.5°	262.6	269.4	274.9	280.3	283.1	286.5	287.2	289.2
15°	281.7	289.2	295.4	301.5	305.6	308.4	310.4	312.5
17.5°	297.4	304.9	312.5	320.0	324.1	327.5	329.6	331.6
20°	309.1	318.6	326.8	334.4	338.5	342.6	344.6	346.7
22.5°	317.9	328.2	337.1	344.6	350.1	354.9	356.9	357.6
25°	324.8	335.0	344.6	352.1	358.3	363.1	365.1	366.5
27.5°	328.2	339.1	349.4	357.6	363.8	368.5	370.6	372.0
30°	328.9	339.8	350.1	358.3	364.4	369.2	371.3	372.6
32.5°	326.8	338.5	348.0	356.2	362.4	367.2	369.2	369.9
35°	322.0	333.7	343.2	350.8	356.9	361.0	363.8	364.4
37.5°	315.2	326.1	335.0	342.6	348.7	352.8	354.9	355.5
40°	307.0	316.6	325.5	332.3	337.8	341.9	343.9	344.6
42.5°	298.1	307.0	314.5	321.4	326.1	329.6	331.6	332.3
45°	287.9	296.1	303.6	309.1	313.2	315.9	317.9	317.9
47.5°	277.6	285.1	292.0	296.1	299.5	301.5	302.9	303.6
50°	268.0	274.9	279.7	283.8	286.5	287.9	289.2	289.2
52.5°	258.5	263.9	268.0	270.8	273.5	274.2	275.5	275.5
55°	249.6	253.7	257.1	259.1	260.5	261.2	261.9	262.6
57.5°	240.0	243.4	245.5	246.8	248.2	248.9	248.9	249.6
60°	230.4	233.2	234.5	235.2	235.9	236.6	237.3	237.3
62.5°	220.2	222.2	222.9	223.6	224.3	225.0	225.6	225.6
65°	209.9	211.3	211.3	212.0	212.6	214.0	214.0	214.7
67.5°	199.0	199.7	199.7	200.3	201.0	202.4	203.1	203.8
70°	187.3	188.0	188.0	188.7	189.4	190.1	191.4	192.1
72.5°	175.0	175.0	175.0	175.7	177.1	177.8	179.1	179.8
75°	161.4	160.7	161.4	160.7	160.7	161.4	161.4	162.0
77.5°	144.3	142.2	140.9	140.2	139.5	139.5	140.2	140.9
80°	122.4	120.3	119.0	118.3	118.3	119.0	119.0	119.7
82.5°	99.1	97.1	95.7	95.7	95.0	95.7	95.7	96.4
85°	71.8	70.4	69.1	68.4	68.4	69.1	69.1	69.7
87.5°	38.3	37.6	36.9	36.9	35.6	36.9	36.9	36.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)