

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: P188283

Luminaire Tested: **22SR-LD2-19-C-UNV-L835-CD1-BR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188283
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-LD2-19-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: 1109.0 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

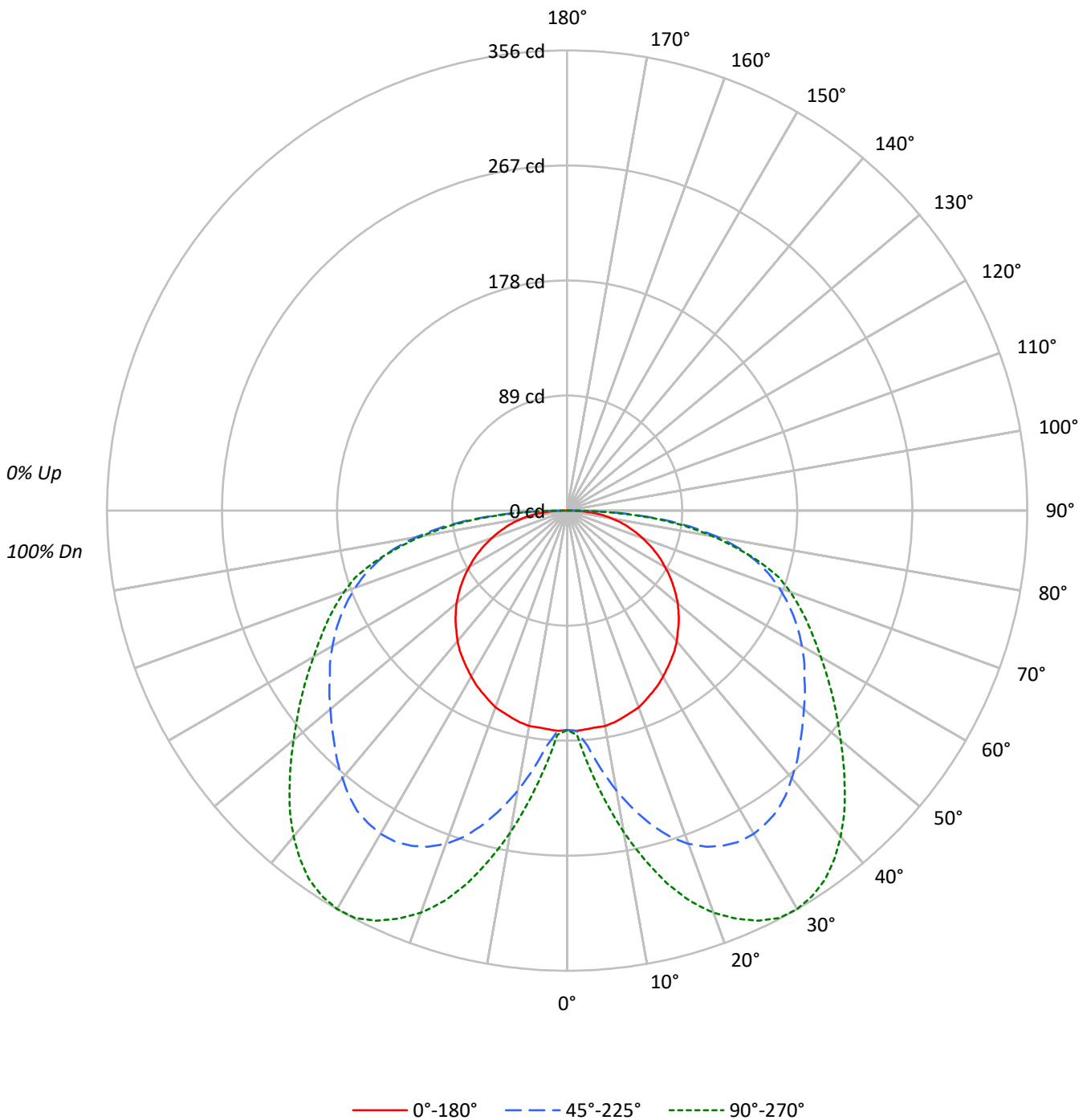
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	498	498	498
5°	499	538	588
10°	503	655	752
15°	503	763	905
20°	505	855	1032
25°	502	925	1132
30°	502	977	1204
35°	502	1014	1245
40°	505	1034	1259
45°	506	1055	1258
50°	509	1089	1259
55°	510	1144	1281
60°	513	1229	1328
65°	521	1340	1422
70°	531	1494	1572
75°	555	1715	1752
80°	596	2006	1929
85°	679	2350	2239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	1.7
10°-20°	68.8	6.2
20°-30°	125.3	11.3
30°-40°	167.0	15.1
40°-50°	183.9	16.6
50°-60°	182.8	16.5
60°-70°	168.6	15.2
70°-80°	135.1	12.2
80°-90°	59.0	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°	212.5	19.2
0°-40°	379.5	34.2
0°-60°	746.3	67.3
0°-90°	1109.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	170	170	170	170	170	
5°	170	171	183	195	200	16
15°	166	200	252	285	298	47
25°	155	216	286	333	350	72
35°	140	210	284	331	348	88
45°	122	190	255	293	304	94
55°	100	168	224	247	251	89
65°	75	142	193	202	205	74
75°	49	109	152	154	155	52
85°	20	50	70	66	67	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°	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8
2.5°	170.5	170.5	170.5	169.8	169.8	169.8	169.8	169.8	169.8	170.5	170.5
5°	169.8	169.8	170.5	169.8	170.5	171.8	173.7	177.0	179.0	182.9	185.5
7.5°	169.2	169.8	169.8	171.1	173.7	179.0	184.2	190.7	196.6	201.8	206.4
10°	169.2	169.2	169.8	173.1	180.3	188.8	197.2	205.1	212.3	220.1	226.6
12.5°	167.9	167.9	169.8	177.0	187.4	198.5	207.7	218.1	227.9	236.4	244.3
15°	165.9	166.5	170.5	180.9	194.0	206.4	218.1	229.9	241.7	251.5	260.6
17.5°	163.9	164.6	171.1	184.8	199.2	213.6	226.6	240.3	252.8	264.5	274.3
20°	162.0	162.0	171.8	187.4	203.1	219.4	233.8	248.2	261.9	274.3	285.4
22.5°	158.7	160.0	171.8	189.4	206.4	222.7	238.4	254.1	268.4	281.5	293.3
25°	155.4	157.4	171.1	189.4	207.0	224.7	241.0	257.3	272.4	286.1	298.5
27.5°	152.2	154.1	169.8	188.8	207.7	225.3	243.0	259.3	275.0	288.7	301.7
30°	148.3	151.5	167.9	186.8	206.4	224.7	241.7	258.6	274.3	288.7	301.7
32.5°	144.3	148.3	165.9	184.8	204.4	222.1	240.3	256.7	272.4	286.7	300.4
35°	140.4	144.3	162.6	182.2	201.2	219.4	237.1	253.4	268.4	283.5	295.9
37.5°	136.5	141.1	158.7	178.3	197.2	214.9	232.5	248.8	263.9	277.6	290.0
40°	131.9	137.2	154.8	173.7	192.0	209.7	226.6	242.3	257.3	270.4	282.1
42.5°	126.7	132.6	150.2	169.2	187.4	204.4	221.4	236.4	250.1	263.2	274.3
45°	122.1	128.7	145.6	163.9	182.2	198.5	215.5	229.9	243.0	254.7	265.2
47.5°	116.9	124.1	141.1	158.7	176.3	193.3	209.0	222.7	235.1	246.9	256.7
50°	111.7	118.9	135.8	153.5	171.1	187.4	202.5	216.2	227.9	239.0	248.2
52.5°	105.8	114.3	130.6	148.3	165.2	181.6	195.9	209.7	221.4	231.9	239.7
55°	99.9	108.4	125.4	143.0	159.4	175.7	190.1	203.1	214.2	224.0	231.9
57.5°	94.0	103.2	120.2	137.2	153.5	169.8	183.5	196.6	207.7	217.5	224.0
60°	87.5	98.0	114.3	131.3	147.6	163.3	177.6	190.1	200.5	209.7	215.5
62.5°	81.6	92.1	108.4	124.7	141.1	156.7	171.1	183.5	193.3	201.8	207.0
65°	75.1	85.6	101.9	118.2	133.9	149.6	163.9	175.7	185.5	193.3	197.9
67.5°	68.6	79.7	95.4	111.0	127.4	142.4	156.1	167.9	177.0	184.2	188.1
70°	62.0	73.1	88.2	103.8	119.5	134.5	147.6	159.4	167.9	174.4	177.6
72.5°	55.5	66.6	81.0	96.0	111.0	126.1	138.5	149.6	157.4	163.9	166.5
75°	49.0	59.4	73.1	86.9	101.2	116.3	128.0	138.5	146.3	151.5	153.5
77.5°	42.5	52.2	64.7	77.7	91.4	105.2	116.9	126.1	132.6	137.2	138.5
80°	35.3	44.4	55.5	67.3	79.0	92.1	101.9	110.4	116.3	118.9	118.2
82.5°	28.1	35.3	44.4	54.2	64.0	75.1	83.6	90.1	94.7	96.7	95.4
85°	20.2	24.8	30.7	37.9	45.7	54.2	60.7	65.3	68.6	69.9	68.6
87.5°	10.4	11.8	14.4	17.6	22.2	28.1	32.0	35.9	35.9	37.2	36.6
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°	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8
2.5°	171.1	171.1	171.8	172.4	172.4	172.4	172.4	173.7
5°	189.4	191.4	194.0	195.9	196.6	197.2	198.5	199.9
7.5°	210.3	214.2	216.8	221.4	222.7	224.0	224.7	226.6
10°	232.5	237.7	241.0	244.9	248.2	249.5	250.8	252.8
12.5°	250.8	257.3	262.6	267.8	270.4	273.7	274.3	276.3
15°	269.1	276.3	282.1	288.0	291.9	294.6	296.5	298.5
17.5°	284.1	291.3	298.5	305.7	309.6	312.8	314.8	316.8
20°	295.2	304.4	312.2	319.4	323.3	327.2	329.2	331.1
22.5°	303.7	313.5	322.0	329.2	334.4	339.0	340.9	341.6
25°	310.2	320.0	329.2	336.4	342.2	346.8	348.8	350.1
27.5°	313.5	323.9	333.7	341.6	347.5	352.0	354.0	355.3
30°	314.1	324.6	334.4	342.2	348.1	352.7	354.6	355.9
32.5°	312.2	323.3	332.4	340.3	346.2	350.7	352.7	353.3
35°	307.6	318.7	327.9	335.0	340.9	344.8	347.5	348.1
37.5°	301.1	311.5	320.0	327.2	333.1	337.0	339.0	339.6
40°	293.3	302.4	310.9	317.4	322.6	326.6	328.5	329.2
42.5°	284.8	293.3	300.4	307.0	311.5	314.8	316.8	317.4
45°	275.0	282.8	290.0	295.2	299.1	301.7	303.7	303.7
47.5°	265.2	272.4	278.9	282.8	286.1	288.0	289.3	290.0
50°	256.0	262.6	267.1	271.0	273.7	275.0	276.3	276.3
52.5°	246.9	252.1	256.0	258.6	261.2	261.9	263.2	263.2
55°	238.4	242.3	245.6	247.5	248.8	249.5	250.1	250.8
57.5°	229.2	232.5	234.5	235.8	237.1	237.7	237.7	238.4
60°	220.1	222.7	224.0	224.7	225.3	226.0	226.6	226.6
62.5°	210.3	212.3	212.9	213.6	214.2	214.9	215.5	215.5
65°	200.5	201.8	201.8	202.5	203.1	204.4	204.4	205.1
67.5°	190.1	190.7	190.7	191.4	192.0	193.3	194.0	194.6
70°	179.0	179.6	179.6	180.3	180.9	181.6	182.9	183.5
72.5°	167.2	167.2	167.2	167.9	169.2	169.8	171.1	171.8
75°	154.1	153.5	154.1	153.5	153.5	154.1	154.1	154.8
77.5°	137.8	135.8	134.5	133.9	133.2	133.2	133.9	134.5
80°	116.9	114.9	113.6	113.0	113.0	113.6	113.6	114.3
82.5°	94.7	92.7	91.4	91.4	90.8	91.4	91.4	92.1
85°	68.6	67.3	66.0	65.3	65.3	66.0	66.0	66.6
87.5°	36.6	35.9	35.3	35.3	34.0	35.3	35.3	35.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)