

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: P188284

Luminaire Tested: **22SR-LD2-19-C-UNV-L830-CD1-BR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188284
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-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: 1076.0 lumens
Efficiency: N/A
Efficacy: 73.2 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

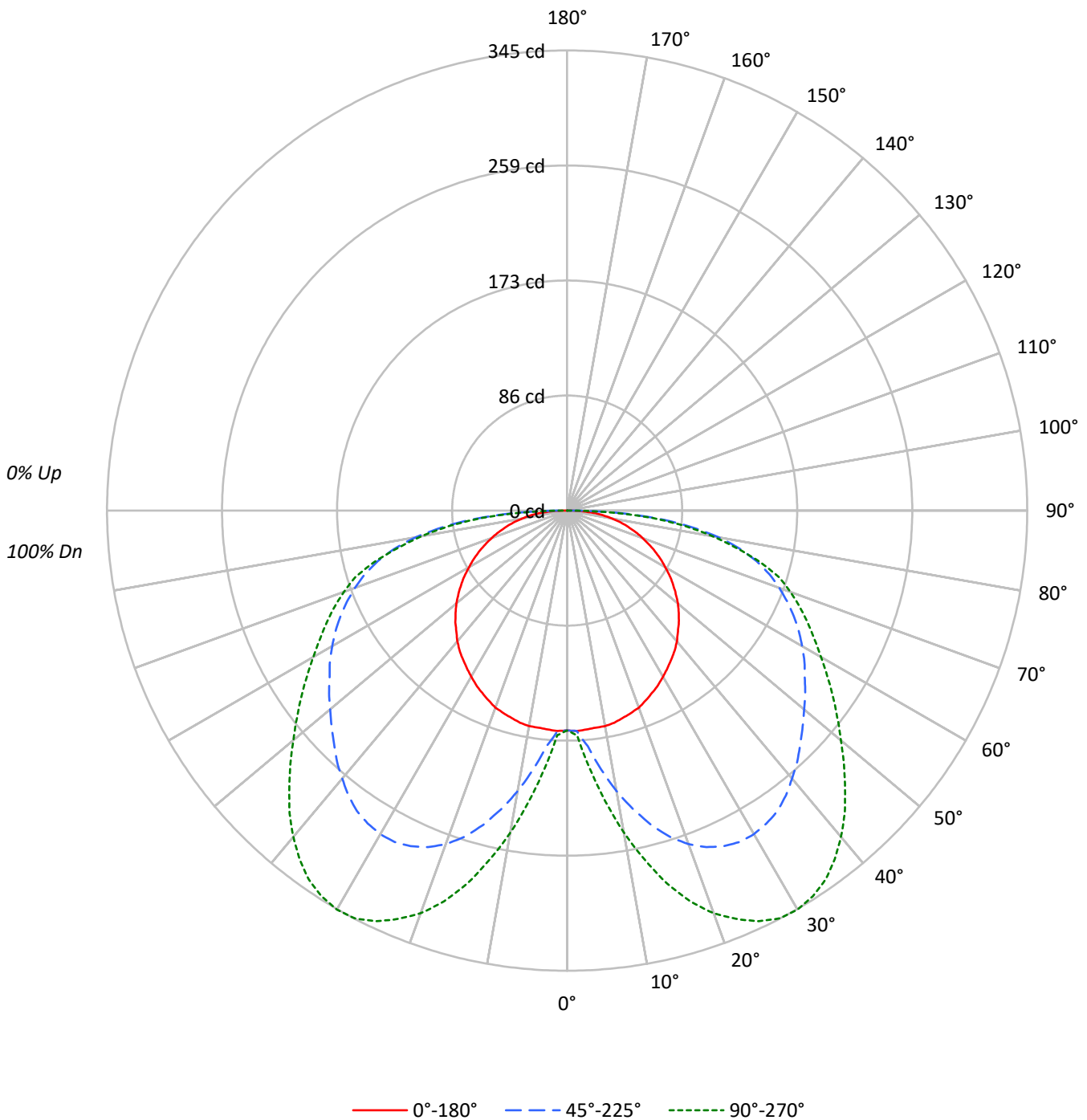
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P188284

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L830-CD1-BR-U

Luminous Intensity Polar Plot





TEST NUMBER: P188284

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L830-CD1-BR-U

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	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					100			
1	106	100	95	90	103	98	93	88	93	89	86	89	86	83	86	83	80	78					78			
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62					62			
3	85	73	64	56	83	72	63	56	68	61	55	66	59	54	63	57	53	50					50			
4	78	64	54	46	75	63	53	46	60	52	45	57	50	45	55	49	44	42					42			
5	71	56	46	39	69	55	46	39	53	45	38	51	44	38	49	43	37	35					35			
6	65	50	41	33	63	49	40	33	47	39	33	46	38	33	44	37	32	30					30			
7	60	45	36	29	58	44	35	29	43	35	29	41	34	28	40	33	28	26					26			
8	56	41	32	26	54	40	32	25	39	31	25	38	30	25	36	30	25	23					23			
9	52	37	29	23	50	37	28	23	36	28	22	34	27	22	33	27	22	20					20			
10	48	34	26	20	47	34	26	20	33	25	20	32	25	20	31	24	20	18					18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	483	483	483
5°	485	522	570
10°	488	636	730
15°	488	740	878
20°	490	830	1002
25°	488	897	1098
30°	487	948	1169
35°	487	984	1208
40°	490	1003	1222
45°	491	1024	1221
50°	494	1057	1222
55°	496	1111	1243
60°	498	1192	1289
65°	505	1301	1380
70°	516	1450	1526
75°	538	1664	1700
80°	577	1946	1871
85°	659	2279	2172



TEST NUMBER: P188284

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L830-CD1-BR-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.0	1.7
10°-20°	66.7	6.2
20°-30°	121.5	11.3
30°-40°	162.0	15.1
40°-50°	178.5	16.6
50°-60°	177.4	16.5
60°-70°	163.5	15.2
70°-80°	131.1	12.2
80°-90°	57.3	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°	206.2	19.2
0°-40°	368.2	34.2
0°-60°	724.1	67.3
0°-90°	1076.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1076.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	165	165	165	165	165	
5°	165	166	177	189	194	16
15°	161	194	244	277	290	46
25°	151	209	278	323	340	70
35°	136	204	275	322	338	85
45°	118	185	247	284	295	91
55°	97	163	217	239	243	87
65°	73	138	188	196	199	72
75°	48	106	147	149	150	50
85°	20	48	68	64	65	20
90°	0	0	0	0	0	



TEST NUMBER: P188284

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L830-CD1-BR-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8
2.5°	165.4	165.4	165.4	164.8	164.8	164.8	164.8	164.8	164.8	165.4	165.4
5°	164.8	164.8	165.4	164.8	165.4	166.7	168.6	171.7	173.6	177.4	180.0
7.5°	164.1	164.8	164.8	166.0	168.6	173.6	178.7	185.0	190.7	195.8	200.2
10°	164.1	164.1	164.8	167.9	174.9	183.1	191.4	199.0	205.9	213.6	219.9
12.5°	162.9	162.9	164.8	171.7	181.9	192.6	201.5	211.7	221.2	229.4	237.0
15°	161.0	161.6	165.4	175.5	188.2	200.2	211.7	223.1	234.5	244.0	252.8
17.5°	159.1	159.7	166.0	179.3	193.3	207.2	219.9	233.2	245.2	256.6	266.1
20°	157.2	157.2	166.7	181.9	197.1	212.9	226.9	240.8	254.1	266.1	276.9
22.5°	154.0	155.3	166.7	183.8	200.2	216.1	231.3	246.5	260.4	273.1	284.5
25°	150.8	152.7	166.0	183.8	200.9	218.0	233.8	249.7	264.2	277.6	289.6
27.5°	147.6	149.5	164.8	183.1	201.5	218.6	235.7	251.6	266.8	280.1	292.8
30°	143.8	147.0	162.9	181.2	200.2	218.0	234.5	250.9	266.1	280.1	292.8
32.5°	140.0	143.8	161.0	179.3	198.3	215.5	233.2	249.0	264.2	278.2	291.5
35°	136.2	140.0	157.8	176.8	195.2	212.9	230.0	245.9	260.4	275.0	287.1
37.5°	132.4	136.9	154.0	173.0	191.4	208.5	225.6	241.4	256.0	269.3	281.4
40°	128.0	133.1	150.2	168.6	186.3	203.4	219.9	235.1	249.7	262.3	273.8
42.5°	122.9	128.6	145.7	164.1	181.9	198.3	214.8	229.4	242.7	255.4	266.1
45°	118.5	124.8	141.3	159.1	176.8	192.6	209.1	223.1	235.7	247.1	257.3
47.5°	113.4	120.4	136.9	154.0	171.1	187.6	202.8	216.1	228.1	239.5	249.0
50°	108.4	115.3	131.8	148.9	166.0	181.9	196.4	209.7	221.2	231.9	240.8
52.5°	102.7	110.9	126.7	143.8	160.3	176.2	190.1	203.4	214.8	225.0	232.6
55°	97.0	105.2	121.7	138.8	154.6	170.5	184.4	197.1	207.8	217.4	225.0
57.5°	91.3	100.1	116.6	133.1	148.9	164.8	178.1	190.7	201.5	211.0	217.4
60°	84.9	95.1	110.9	127.4	143.2	158.4	172.4	184.4	194.5	203.4	209.1
62.5°	79.2	89.3	105.2	121.0	136.9	152.1	166.0	178.1	187.6	195.8	200.9
65°	72.9	83.0	98.9	114.7	129.9	145.1	159.1	170.5	180.0	187.6	192.0
67.5°	66.5	77.3	92.5	107.7	123.6	138.1	151.5	162.9	171.7	178.7	182.5
70°	60.2	71.0	85.5	100.8	116.0	130.5	143.2	154.6	162.9	169.2	172.4
72.5°	53.9	64.6	78.6	93.2	107.7	122.3	134.3	145.1	152.7	159.1	161.6
75°	47.5	57.7	71.0	84.3	98.2	112.8	124.2	134.3	141.9	147.0	148.9
77.5°	41.2	50.7	62.7	75.4	88.7	102.0	113.4	122.3	128.6	133.1	134.3
80°	34.2	43.1	53.9	65.3	76.7	89.3	98.9	107.1	112.8	115.3	114.7
82.5°	27.2	34.2	43.1	52.6	62.1	72.9	81.1	87.4	91.9	93.8	92.5
85°	19.6	24.1	29.8	36.8	44.4	52.6	58.9	63.4	66.5	67.8	66.5
87.5°	10.1	11.4	13.9	17.1	21.5	27.2	31.1	34.9	34.9	36.1	35.5
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: P188284

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L830-CD1-BR-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	164.8	164.8	164.8	164.8	164.8	164.8	164.8	164.8
2.5°	166.0	166.0	166.7	167.3	167.3	167.3	167.3	168.6
5°	183.8	185.7	188.2	190.1	190.7	191.4	192.6	193.9
7.5°	204.0	207.8	210.4	214.8	216.1	217.4	218.0	219.9
10°	225.6	230.7	233.8	237.6	240.8	242.1	243.3	245.2
12.5°	243.3	249.7	254.7	259.8	262.3	265.5	266.1	268.0
15°	261.1	268.0	273.8	279.5	283.3	285.8	287.7	289.6
17.5°	275.7	282.6	289.6	296.6	300.4	303.5	305.4	307.3
20°	286.4	295.3	302.9	309.9	313.7	317.5	319.4	321.3
22.5°	294.7	304.2	312.4	319.4	324.4	328.9	330.8	331.4
25°	301.0	310.5	319.4	326.3	332.1	336.5	338.4	339.7
27.5°	304.2	314.3	323.8	331.4	337.1	341.6	343.5	344.7
30°	304.8	314.9	324.4	332.1	337.8	342.2	344.1	345.4
32.5°	302.9	313.7	322.5	330.1	335.9	340.3	342.2	342.8
35°	298.5	309.2	318.1	325.1	330.8	334.6	337.1	337.8
37.5°	292.1	302.3	310.5	317.5	323.2	327.0	328.9	329.5
40°	284.5	293.4	301.6	308.0	313.0	316.8	318.7	319.4
42.5°	276.3	284.5	291.5	297.8	302.3	305.4	307.3	308.0
45°	266.8	274.4	281.4	286.4	290.2	292.8	294.7	294.7
47.5°	257.3	264.2	270.6	274.4	277.6	279.5	280.7	281.4
50°	248.4	254.7	259.2	263.0	265.5	266.8	268.0	268.0
52.5°	239.5	244.6	248.4	250.9	253.5	254.1	255.4	255.4
55°	231.3	235.1	238.3	240.2	241.4	242.1	242.7	243.3
57.5°	222.4	225.6	227.5	228.8	230.0	230.7	230.7	231.3
60°	213.6	216.1	217.4	218.0	218.6	219.3	219.9	219.9
62.5°	204.0	205.9	206.6	207.2	207.8	208.5	209.1	209.1
65°	194.5	195.8	195.8	196.4	197.1	198.3	198.3	199.0
67.5°	184.4	185.0	185.0	185.7	186.3	187.6	188.2	188.8
70°	173.6	174.3	174.3	174.9	175.5	176.2	177.4	178.1
72.5°	162.2	162.2	162.2	162.9	164.1	164.8	166.0	166.7
75°	149.5	148.9	149.5	148.9	148.9	149.5	149.5	150.2
77.5°	133.7	131.8	130.5	129.9	129.3	129.3	129.9	130.5
80°	113.4	111.5	110.3	109.6	109.6	110.3	110.3	110.9
82.5°	91.9	90.0	88.7	88.7	88.1	88.7	88.7	89.3
85°	66.5	65.3	64.0	63.4	63.4	64.0	64.0	64.6
87.5°	35.5	34.9	34.2	34.2	33.0	34.2	34.2	34.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)