

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: P188282

Luminaire Tested: **22SR-LD2-19-C-UNV-L840-CD1-BR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188282
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-L840-CD1-BR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH BELLADONNA ROSE

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1131.0 lumens
Efficiency: N/A
Efficacy: 76.9 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

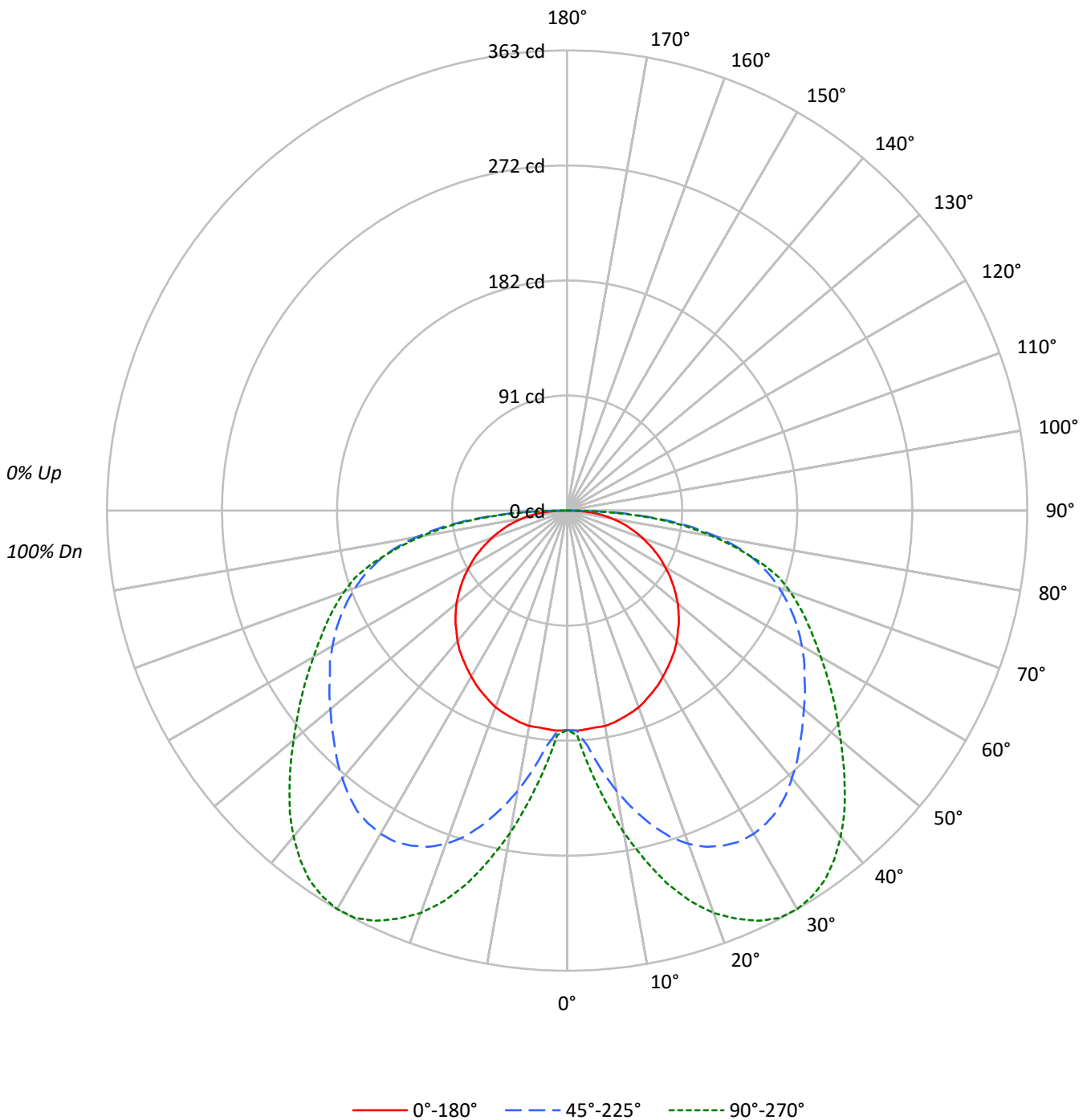
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	507	507	507
5°	509	549	599
10°	513	668	767
15°	513	778	923
20°	515	872	1053
25°	512	943	1154
30°	512	996	1228
35°	512	1034	1270
40°	514	1055	1284
45°	516	1077	1283
50°	519	1111	1284
55°	521	1167	1307
60°	523	1253	1354
65°	531	1367	1450
70°	542	1523	1604
75°	566	1749	1788
80°	607	2045	1967
85°	693	2397	2283



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	1.7
10°-20°	70.1	6.2
20°-30°	127.7	11.3
30°-40°	170.3	15.1
40°-50°	187.6	16.6
50°-60°	186.5	16.5
60°-70°	171.9	15.2
70°-80°	137.8	12.2
80°-90°	60.2	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°	216.8	19.2
0°-40°	387.0	34.2
0°-60°	761.1	67.3
0°-90°	1131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	173	173	173	173	173	
5°	173	174	186	199	204	17
15°	169	204	256	291	304	48
25°	158	220	292	339	357	73
35°	143	214	289	338	355	90
45°	125	194	260	298	310	96
55°	102	171	228	251	256	91
65°	77	144	197	206	209	76
75°	50	111	154	157	158	53
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°	173.2	173.2	173.2	173.2	173.2	173.2	173.2	173.2	173.2	173.2	173.2
2.5°	173.8	173.8	173.8	173.2	173.2	173.2	173.2	173.2	173.2	173.8	173.8
5°	173.2	173.2	173.8	173.2	173.8	175.2	177.2	180.5	182.5	186.5	189.2
7.5°	172.5	173.2	173.2	174.5	177.2	182.5	187.8	194.5	200.5	205.8	210.5
10°	172.5	172.5	173.2	176.5	183.8	192.5	201.2	209.1	216.5	224.5	231.1
12.5°	171.2	171.2	173.2	180.5	191.2	202.5	211.8	222.5	232.5	241.1	249.1
15°	169.2	169.8	173.8	184.5	197.8	210.5	222.5	234.5	246.4	256.4	265.8
17.5°	167.2	167.9	174.5	188.5	203.2	217.8	231.1	245.1	257.8	269.8	279.8
20°	165.2	165.2	175.2	191.2	207.1	223.8	238.5	253.1	267.1	279.8	291.1
22.5°	161.9	163.2	175.2	193.2	210.5	227.1	243.1	259.1	273.8	287.1	299.1
25°	158.5	160.5	174.5	193.2	211.1	229.1	245.8	262.4	277.8	291.7	304.4
27.5°	155.2	157.2	173.2	192.5	211.8	229.8	247.8	264.4	280.4	294.4	307.7
30°	151.2	154.5	171.2	190.5	210.5	229.1	246.4	263.8	279.8	294.4	307.7
32.5°	147.2	151.2	169.2	188.5	208.5	226.5	245.1	261.8	277.8	292.4	306.4
35°	143.2	147.2	165.9	185.8	205.2	223.8	241.8	258.4	273.8	289.1	301.7
37.5°	139.2	143.9	161.9	181.8	201.2	219.1	237.1	253.8	269.1	283.1	295.7
40°	134.5	139.9	157.9	177.2	195.8	213.8	231.1	247.1	262.4	275.8	287.7
42.5°	129.2	135.2	153.2	172.5	191.2	208.5	225.8	241.1	255.1	268.4	279.8
45°	124.6	131.2	148.5	167.2	185.8	202.5	219.8	234.5	247.8	259.8	270.4
47.5°	119.2	126.6	143.9	161.9	179.8	197.2	213.1	227.1	239.8	251.8	261.8
50°	113.9	121.2	138.5	156.5	174.5	191.2	206.5	220.5	232.5	243.8	253.1
52.5°	107.9	116.6	133.2	151.2	168.5	185.2	199.8	213.8	225.8	236.5	244.4
55°	101.9	110.6	127.9	145.9	162.5	179.2	193.8	207.1	218.5	228.5	236.5
57.5°	95.9	105.2	122.6	139.9	156.5	173.2	187.2	200.5	211.8	221.8	228.5
60°	89.3	99.9	116.6	133.9	150.5	166.5	181.2	193.8	204.5	213.8	219.8
62.5°	83.3	93.9	110.6	127.2	143.9	159.9	174.5	187.2	197.2	205.8	211.1
65°	76.6	87.3	103.9	120.6	136.5	152.5	167.2	179.2	189.2	197.2	201.8
67.5°	69.9	81.3	97.2	113.2	129.9	145.2	159.2	171.2	180.5	187.8	191.8
70°	63.3	74.6	89.9	105.9	121.9	137.2	150.5	162.5	171.2	177.8	181.2
72.5°	56.6	67.9	82.6	97.9	113.2	128.6	141.2	152.5	160.5	167.2	169.8
75°	50.0	60.6	74.6	88.6	103.2	118.6	130.6	141.2	149.2	154.5	156.5
77.5°	43.3	53.3	65.9	79.3	93.3	107.2	119.2	128.6	135.2	139.9	141.2
80°	36.0	45.3	56.6	68.6	80.6	93.9	103.9	112.6	118.6	121.2	120.6
82.5°	28.6	36.0	45.3	55.3	65.3	76.6	85.3	91.9	96.6	98.6	97.2
85°	20.6	25.3	31.3	38.6	46.6	55.3	61.9	66.6	69.9	71.3	69.9
87.5°	10.7	12.0	14.7	18.0	22.6	28.6	32.6	36.6	36.6	38.0	37.3
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°	173.2	173.2	173.2	173.2	173.2	173.2	173.2	173.2
2.5°	174.5	174.5	175.2	175.8	175.8	175.8	175.8	177.2
5°	193.2	195.2	197.8	199.8	200.5	201.2	202.5	203.8
7.5°	214.5	218.5	221.1	225.8	227.1	228.5	229.1	231.1
10°	237.1	242.5	245.8	249.8	253.1	254.4	255.8	257.8
12.5°	255.8	262.4	267.8	273.1	275.8	279.1	279.8	281.7
15°	274.4	281.7	287.7	293.7	297.7	300.4	302.4	304.4
17.5°	289.7	297.1	304.4	311.7	315.7	319.0	321.0	323.0
20°	301.1	310.4	318.4	325.7	329.7	333.7	335.7	337.7
22.5°	309.7	319.7	328.4	335.7	341.0	345.7	347.7	348.4
25°	316.4	326.4	335.7	343.0	349.0	353.7	355.7	357.0
27.5°	319.7	330.4	340.4	348.4	354.4	359.0	361.0	362.3
30°	320.4	331.0	341.0	349.0	355.0	359.7	361.7	363.0
32.5°	318.4	329.7	339.0	347.0	353.0	357.7	359.7	360.3
35°	313.7	325.0	334.4	341.7	347.7	351.7	354.4	355.0
37.5°	307.1	317.7	326.4	333.7	339.7	343.7	345.7	346.4
40°	299.1	308.4	317.1	323.7	329.0	333.0	335.0	335.7
42.5°	290.4	299.1	306.4	313.1	317.7	321.0	323.0	323.7
45°	280.4	288.4	295.7	301.1	305.1	307.7	309.7	309.7
47.5°	270.4	277.8	284.4	288.4	291.7	293.7	295.1	295.7
50°	261.1	267.8	272.4	276.4	279.1	280.4	281.7	281.7
52.5°	251.8	257.1	261.1	263.8	266.4	267.1	268.4	268.4
55°	243.1	247.1	250.4	252.4	253.8	254.4	255.1	255.8
57.5°	233.8	237.1	239.1	240.5	241.8	242.5	242.5	243.1
60°	224.5	227.1	228.5	229.1	229.8	230.5	231.1	231.1
62.5°	214.5	216.5	217.1	217.8	218.5	219.1	219.8	219.8
65°	204.5	205.8	205.8	206.5	207.1	208.5	208.5	209.1
67.5°	193.8	194.5	194.5	195.2	195.8	197.2	197.8	198.5
70°	182.5	183.2	183.2	183.8	184.5	185.2	186.5	187.2
72.5°	170.5	170.5	170.5	171.2	172.5	173.2	174.5	175.2
75°	157.2	156.5	157.2	156.5	156.5	157.2	157.2	157.9
77.5°	140.5	138.5	137.2	136.5	135.9	135.9	136.5	137.2
80°	119.2	117.2	115.9	115.2	115.2	115.9	115.9	116.6
82.5°	96.6	94.6	93.3	93.3	92.6	93.3	93.3	93.9
85°	69.9	68.6	67.3	66.6	66.6	67.3	67.3	67.9
87.5°	37.3	36.6	36.0	36.0	34.6	36.0	36.0	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)