

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: P188281

Luminaire Tested: **22SR-LD2-19-C-UNV-L850-CD1-BR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188281
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-L850-CD1-BR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH BELLADONNA ROSE

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1231.0 lumens
Efficiency: N/A
Efficacy: 83.7 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

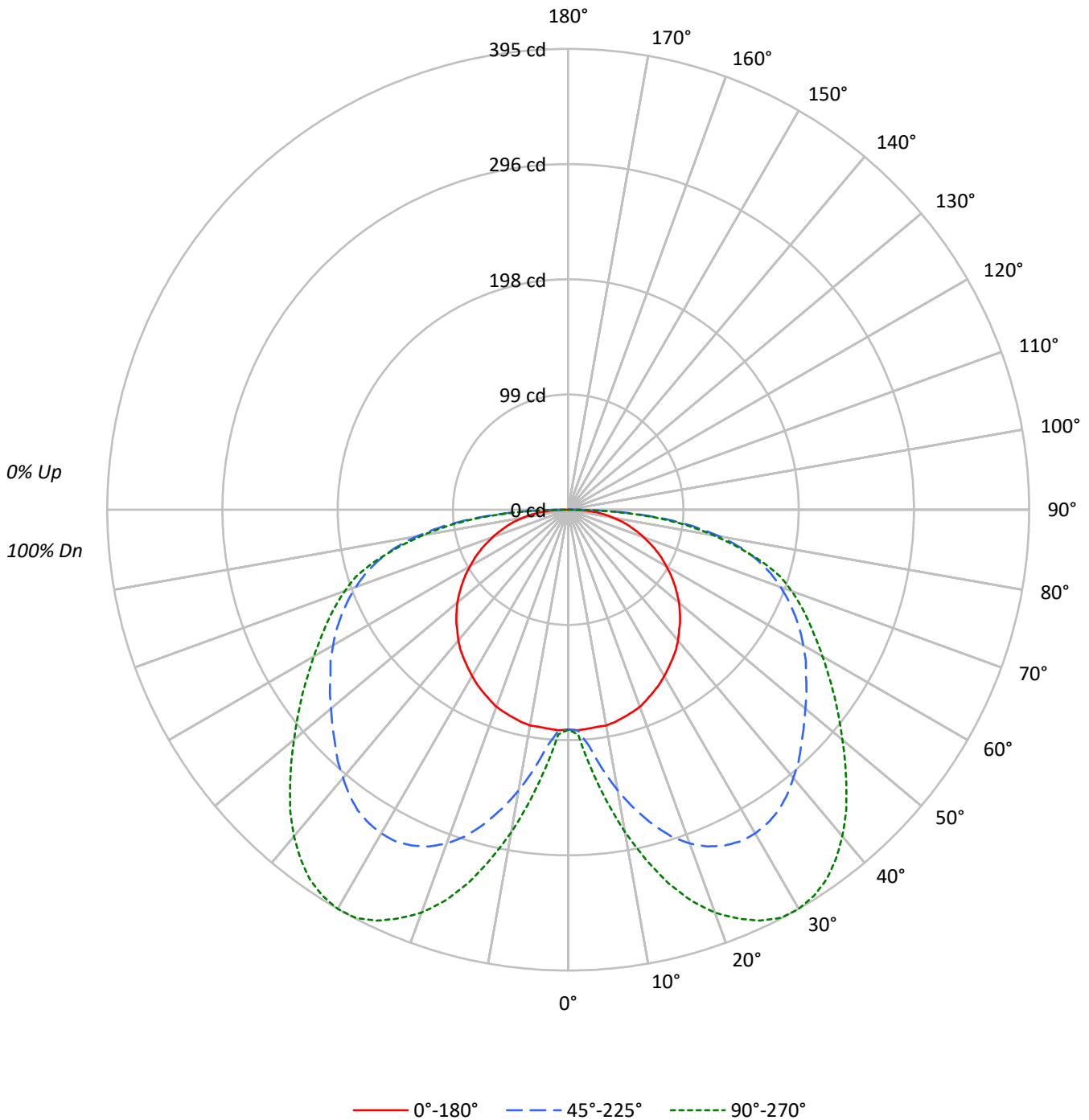
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	552	552	552
5°	554	597	652
10°	559	727	835
15°	558	847	1005
20°	561	949	1146
25°	558	1026	1256
30°	557	1084	1337
35°	558	1125	1382
40°	560	1148	1398
45°	562	1171	1397
50°	565	1209	1398
55°	567	1270	1422
60°	569	1364	1474
65°	578	1488	1578
70°	590	1659	1745
75°	616	1904	1945
80°	660	2226	2141
85°	756	2609	2484



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.5	1.7
10°-20°	76.3	6.2
20°-30°	139.0	11.3
30°-40°	185.3	15.1
40°-50°	204.2	16.6
50°-60°	202.9	16.5
60°-70°	187.1	15.2
70°-80°	150.0	12.2
80°-90°	65.5	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°	235.9	19.2
0°-40°	421.3	34.2
0°-60°	828.4	67.3
0°-90°	1231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	188	188	188	188	188	
5°	188	190	203	216	222	18
15°	184	222	279	316	331	52
25°	172	240	318	369	389	80
35°	156	233	315	368	386	98
45°	136	211	283	325	337	105
55°	111	186	249	274	278	99
65°	83	157	215	224	228	82
75°	54	121	168	171	172	57
85°	22	55	78	73	74	23
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°	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5
2.5°	189.2	189.2	189.2	188.5	188.5	188.5	188.5	188.5	188.5	189.2	189.2
5°	188.5	188.5	189.2	188.5	189.2	190.7	192.8	196.5	198.6	203.0	205.9
7.5°	187.8	188.5	188.5	189.9	192.8	198.6	204.4	211.7	218.2	224.0	229.1
10°	187.8	187.8	188.5	192.1	200.1	209.5	218.9	227.6	235.6	244.3	251.6
12.5°	186.3	186.3	188.5	196.5	208.1	220.4	230.5	242.1	253.0	262.4	271.1
15°	184.1	184.9	189.2	200.8	215.3	229.1	242.1	255.2	268.2	279.1	289.3
17.5°	182.0	182.7	189.9	205.2	221.1	237.1	251.6	266.8	280.6	293.6	304.5
20°	179.8	179.8	190.7	208.1	225.5	243.6	259.5	275.5	290.7	304.5	316.8
22.5°	176.2	177.6	190.7	210.2	229.1	247.2	264.6	282.0	298.0	312.5	325.5
25°	172.5	174.7	189.9	210.2	229.8	249.4	267.5	285.6	302.3	317.5	331.3
27.5°	168.9	171.1	188.5	209.5	230.5	250.1	269.7	287.8	305.2	320.4	334.9
30°	164.6	168.2	186.3	207.3	229.1	249.4	268.2	287.1	304.5	320.4	334.9
32.5°	160.2	164.6	184.1	205.2	226.9	246.5	266.8	284.9	302.3	318.3	333.5
35°	155.9	160.2	180.5	202.3	223.3	243.6	263.2	281.3	298.0	314.6	328.4
37.5°	151.5	156.6	176.2	197.9	218.9	238.5	258.1	276.2	292.9	308.1	321.9
40°	146.4	152.2	171.8	192.8	213.1	232.7	251.6	269.0	285.6	300.1	313.2
42.5°	140.6	147.2	166.7	187.8	208.1	226.9	245.8	262.4	277.7	292.2	304.5
45°	135.6	142.8	161.7	182.0	202.3	220.4	239.2	255.2	269.7	282.7	294.3
47.5°	129.8	137.7	156.6	176.2	195.7	214.6	232.0	247.2	261.0	274.0	284.9
50°	124.0	131.9	150.8	170.4	189.9	208.1	224.7	240.0	253.0	265.3	275.5
52.5°	117.4	126.9	145.0	164.6	183.4	201.5	217.5	232.7	245.8	257.4	266.1
55°	110.9	120.3	139.2	158.8	176.9	195.0	211.0	225.5	237.8	248.7	257.4
57.5°	104.4	114.5	133.4	152.2	170.4	188.5	203.7	218.2	230.5	241.4	248.7
60°	97.1	108.7	126.9	145.7	163.8	181.2	197.2	211.0	222.6	232.7	239.2
62.5°	90.6	102.2	120.3	138.5	156.6	174.0	189.9	203.7	214.6	224.0	229.8
65°	83.4	95.0	113.1	131.2	148.6	166.0	182.0	195.0	205.9	214.6	219.7
67.5°	76.1	88.4	105.8	123.2	141.4	158.0	173.3	186.3	196.5	204.4	208.8
70°	68.9	81.2	97.9	115.3	132.7	149.3	163.8	176.9	186.3	193.6	197.2
72.5°	61.6	73.9	89.9	106.6	123.2	139.9	153.7	166.0	174.7	182.0	184.9
75°	54.4	66.0	81.2	96.4	112.4	129.0	142.1	153.7	162.4	168.2	170.4
77.5°	47.1	58.0	71.8	86.3	101.5	116.7	129.8	139.9	147.2	152.2	153.7
80°	39.1	49.3	61.6	74.7	87.7	102.2	113.1	122.5	129.0	131.9	131.2
82.5°	31.2	39.1	49.3	60.2	71.0	83.4	92.8	100.0	105.1	107.3	105.8
85°	22.5	27.5	34.1	42.0	50.7	60.2	67.4	72.5	76.1	77.6	76.1
87.5°	11.6	13.0	15.9	19.6	24.6	31.2	35.5	39.9	39.9	41.3	40.6
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°	188.5	188.5	188.5	188.5	188.5	188.5	188.5	188.5
2.5°	189.9	189.9	190.7	191.4	191.4	191.4	191.4	192.8
5°	210.2	212.4	215.3	217.5	218.2	218.9	220.4	221.8
7.5°	233.4	237.8	240.7	245.8	247.2	248.7	249.4	251.6
10°	258.1	263.9	267.5	271.9	275.5	276.9	278.4	280.6
12.5°	278.4	285.6	291.4	297.2	300.1	303.8	304.5	306.7
15°	298.7	306.7	313.2	319.7	324.1	327.0	329.1	331.3
17.5°	315.4	323.3	331.3	339.3	343.6	347.3	349.4	351.6
20°	327.7	337.8	346.5	354.5	358.9	363.2	365.4	367.6
22.5°	337.1	348.0	357.4	365.4	371.2	376.3	378.4	379.2
25°	344.4	355.2	365.4	373.4	379.9	385.0	387.1	388.6
27.5°	348.0	359.6	370.5	379.2	385.7	390.8	392.9	394.4
30°	348.7	360.3	371.2	379.9	386.4	391.5	393.7	395.1
32.5°	346.5	358.9	369.0	377.7	384.2	389.3	391.5	392.2
35°	341.5	353.8	363.9	371.9	378.4	382.8	385.7	386.4
37.5°	334.2	345.8	355.2	363.2	369.7	374.1	376.3	377.0
40°	325.5	335.7	345.1	352.3	358.1	362.5	364.7	365.4
42.5°	316.1	325.5	333.5	340.7	345.8	349.4	351.6	352.3
45°	305.2	313.9	321.9	327.7	332.0	334.9	337.1	337.1
47.5°	294.3	302.3	309.6	313.9	317.5	319.7	321.2	321.9
50°	284.2	291.4	296.5	300.9	303.8	305.2	306.7	306.7
52.5°	274.0	279.8	284.2	287.1	290.0	290.7	292.2	292.2
55°	264.6	269.0	272.6	274.8	276.2	276.9	277.7	278.4
57.5°	254.5	258.1	260.3	261.7	263.2	263.9	263.9	264.6
60°	244.3	247.2	248.7	249.4	250.1	250.8	251.6	251.6
62.5°	233.4	235.6	236.3	237.1	237.8	238.5	239.2	239.2
65°	222.6	224.0	224.0	224.7	225.5	226.9	226.9	227.6
67.5°	211.0	211.7	211.7	212.4	213.1	214.6	215.3	216.0
70°	198.6	199.4	199.4	200.1	200.8	201.5	203.0	203.7
72.5°	185.6	185.6	185.6	186.3	187.8	188.5	189.9	190.7
75°	171.1	170.4	171.1	170.4	170.4	171.1	171.1	171.8
77.5°	153.0	150.8	149.3	148.6	147.9	147.9	148.6	149.3
80°	129.8	127.6	126.1	125.4	125.4	126.1	126.1	126.9
82.5°	105.1	102.9	101.5	101.5	100.8	101.5	101.5	102.2
85°	76.1	74.7	73.2	72.5	72.5	73.2	73.2	73.9
87.5°	40.6	39.9	39.1	39.1	37.7	39.1	39.1	39.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)