

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: P188274

Luminaire Tested: **22SR-LD2-25-C-UNV-L830-CD1-BR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188274
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-LD2-25-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: 1417.0 lumens
Efficiency: N/A
Efficacy: 72.3 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

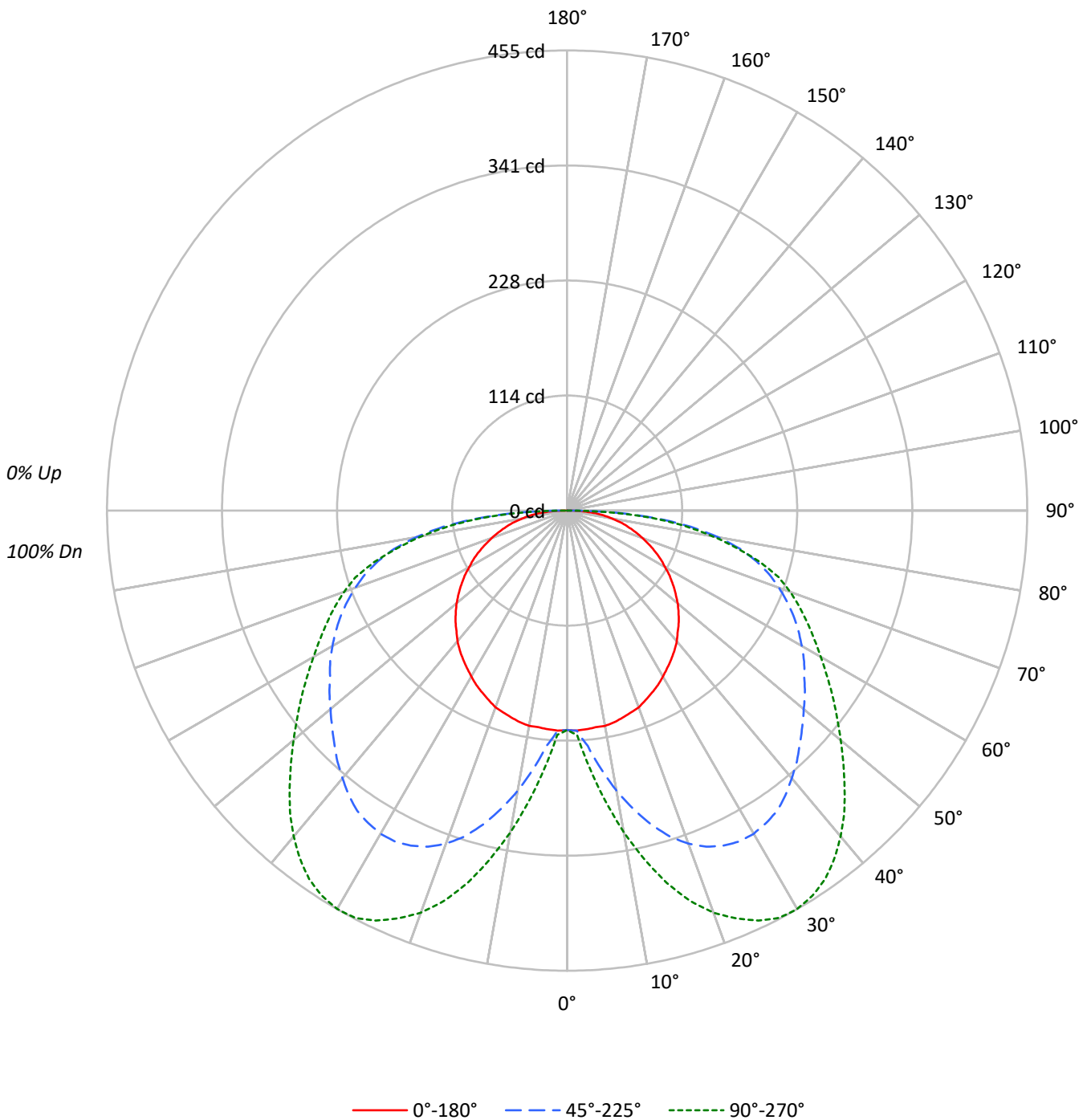
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	636	636	636
5°	638	687	751
10°	643	837	961
15°	643	975	1157
20°	645	1093	1319
25°	642	1182	1446
30°	641	1248	1539
35°	642	1296	1591
40°	645	1322	1609
45°	647	1349	1608
50°	650	1392	1609
55°	652	1462	1637
60°	655	1570	1697
65°	666	1712	1816
70°	679	1909	2009
75°	709	2192	2239
80°	761	2563	2464
85°	871	3002	2861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	1.7
10°-20°	87.9	6.2
20°-30°	160.0	11.3
30°-40°	213.4	15.1
40°-50°	235.0	16.6
50°-60°	233.6	16.5
60°-70°	215.4	15.2
70°-80°	172.7	12.2
80°-90°	75.4	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°	271.6	19.2
0°-40°	484.9	34.2
0°-60°	953.6	67.3
0°-90°	1417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	217	217	217	217	217	
5°	217	219	234	249	255	21
15°	212	256	321	364	381	60
25°	199	276	366	425	447	92
35°	179	269	362	424	445	112
45°	156	243	326	374	388	120
55°	128	214	286	315	320	114
65°	96	181	247	258	262	95
75°	63	139	194	196	198	66
85°	26	64	89	84	85	27
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°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0
2.5°	217.8	217.8	217.8	217.0	217.0	217.0	217.0	217.0	217.0	217.8	217.8
5°	217.0	217.0	217.8	217.0	217.8	219.5	222.0	226.2	228.7	233.7	237.0
7.5°	216.1	217.0	217.0	218.6	222.0	228.7	235.3	243.7	251.2	257.9	263.7
10°	216.1	216.1	217.0	221.1	230.3	241.2	252.0	262.0	271.2	281.2	289.6
12.5°	214.5	214.5	217.0	226.2	239.5	253.7	265.4	278.7	291.2	302.1	312.1
15°	212.0	212.8	217.8	231.2	247.8	263.7	278.7	293.7	308.8	321.3	333.0
17.5°	209.5	210.3	218.6	236.2	254.5	272.9	289.6	307.1	323.0	338.0	350.5
20°	207.0	207.0	219.5	239.5	259.5	280.4	298.8	317.1	334.6	350.5	364.7
22.5°	202.8	204.5	219.5	242.0	263.7	284.6	304.6	324.6	343.0	359.7	374.7
25°	198.6	201.1	218.6	242.0	264.5	287.1	307.9	328.8	348.0	365.5	381.4
27.5°	194.4	196.9	217.0	241.2	265.4	287.9	310.4	331.3	351.3	368.9	385.5
30°	189.4	193.6	214.5	238.7	263.7	287.1	308.8	330.5	350.5	368.9	385.5
32.5°	184.4	189.4	212.0	236.2	261.2	283.7	307.1	328.0	348.0	366.3	383.9
35°	179.4	184.4	207.8	232.8	257.0	280.4	302.9	323.8	343.0	362.2	378.0
37.5°	174.4	180.3	202.8	227.8	252.0	274.6	297.1	317.9	337.1	354.7	370.5
40°	168.6	175.2	197.8	222.0	245.3	267.9	289.6	309.6	328.8	345.5	360.5
42.5°	161.9	169.4	191.9	216.1	239.5	261.2	282.9	302.1	319.6	336.3	350.5
45°	156.1	164.4	186.1	209.5	232.8	253.7	275.4	293.7	310.4	325.5	338.8
47.5°	149.4	158.6	180.3	202.8	225.3	247.0	267.0	284.6	300.4	315.4	328.0
50°	142.7	151.9	173.6	196.1	218.6	239.5	258.7	276.2	291.2	305.4	317.1
52.5°	135.2	146.0	166.9	189.4	211.1	232.0	250.4	267.9	282.9	296.3	306.3
55°	127.7	138.5	160.2	182.8	203.6	224.5	242.8	259.5	273.7	286.2	296.3
57.5°	120.2	131.9	153.5	175.2	196.1	217.0	234.5	251.2	265.4	277.9	286.2
60°	111.8	125.2	146.0	167.7	188.6	208.6	227.0	242.8	256.2	267.9	275.4
62.5°	104.3	117.7	138.5	159.4	180.3	200.3	218.6	234.5	247.0	257.9	264.5
65°	96.0	109.3	130.2	151.0	171.1	191.1	209.5	224.5	237.0	247.0	252.9
67.5°	87.6	101.8	121.8	141.9	162.7	181.9	199.4	214.5	226.2	235.3	240.3
70°	79.3	93.5	112.7	132.7	152.7	171.9	188.6	203.6	214.5	222.8	227.0
72.5°	70.9	85.1	103.5	122.7	141.9	161.1	176.9	191.1	201.1	209.5	212.8
75°	62.6	75.9	93.5	111.0	129.3	148.5	163.6	176.9	186.9	193.6	196.1
77.5°	54.2	66.8	82.6	99.3	116.8	134.4	149.4	161.1	169.4	175.2	176.9
80°	45.1	56.7	70.9	86.0	101.0	117.7	130.2	141.0	148.5	151.9	151.0
82.5°	35.9	45.1	56.7	69.3	81.8	96.0	106.8	115.2	121.0	123.5	121.8
85°	25.9	31.7	39.2	48.4	58.4	69.3	77.6	83.5	87.6	89.3	87.6
87.5°	13.4	15.0	18.4	22.5	28.4	35.9	40.9	45.9	45.9	47.6	46.7
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°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0
2.5°	218.6	218.6	219.5	220.3	220.3	220.3	220.3	222.0
5°	242.0	244.5	247.8	250.4	251.2	252.0	253.7	255.4
7.5°	268.7	273.7	277.1	282.9	284.6	286.2	287.1	289.6
10°	297.1	303.8	307.9	312.9	317.1	318.8	320.5	323.0
12.5°	320.5	328.8	335.5	342.1	345.5	349.7	350.5	353.0
15°	343.8	353.0	360.5	368.0	373.0	376.4	378.9	381.4
17.5°	363.0	372.2	381.4	390.5	395.6	399.7	402.2	404.7
20°	377.2	388.9	398.9	408.1	413.1	418.1	420.6	423.1
22.5°	388.0	400.6	411.4	420.6	427.3	433.1	435.6	436.4
25°	396.4	408.9	420.6	429.8	437.3	443.1	445.6	447.3
27.5°	400.6	413.9	426.4	436.4	444.0	449.8	452.3	454.0
30°	401.4	414.8	427.3	437.3	444.8	450.6	453.1	454.8
32.5°	398.9	413.1	424.8	434.8	442.3	448.1	450.6	451.5
35°	393.1	407.2	418.9	428.1	435.6	440.6	444.0	444.8
37.5°	384.7	398.1	408.9	418.1	425.6	430.6	433.1	433.9
40°	374.7	386.4	397.2	405.6	412.2	417.3	419.8	420.6
42.5°	363.8	374.7	383.9	392.2	398.1	402.2	404.7	405.6
45°	351.3	361.3	370.5	377.2	382.2	385.5	388.0	388.0
47.5°	338.8	348.0	356.3	361.3	365.5	368.0	369.7	370.5
50°	327.1	335.5	341.3	346.3	349.7	351.3	353.0	353.0
52.5°	315.4	322.1	327.1	330.5	333.8	334.6	336.3	336.3
55°	304.6	309.6	313.8	316.3	317.9	318.8	319.6	320.5
57.5°	292.9	297.1	299.6	301.3	302.9	303.8	303.8	304.6
60°	281.2	284.6	286.2	287.1	287.9	288.7	289.6	289.6
62.5°	268.7	271.2	272.0	272.9	273.7	274.6	275.4	275.4
65°	256.2	257.9	257.9	258.7	259.5	261.2	261.2	262.0
67.5°	242.8	243.7	243.7	244.5	245.3	247.0	247.8	248.7
70°	228.7	229.5	229.5	230.3	231.2	232.0	233.7	234.5
72.5°	213.6	213.6	213.6	214.5	216.1	217.0	218.6	219.5
75°	196.9	196.1	196.9	196.1	196.1	196.9	196.9	197.8
77.5°	176.1	173.6	171.9	171.1	170.2	170.2	171.1	171.9
80°	149.4	146.9	145.2	144.4	144.4	145.2	145.2	146.0
82.5°	121.0	118.5	116.8	116.8	116.0	116.8	116.8	117.7
85°	87.6	86.0	84.3	83.5	83.5	84.3	84.3	85.1
87.5°	46.7	45.9	45.1	45.1	43.4	45.1	45.1	45.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)