

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: P188273

Luminaire Tested: **22SR-LD2-25-C-UNV-L840-CD1-BR-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188273  
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-L840-CD1-BR-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH BELLADONNA ROSE  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

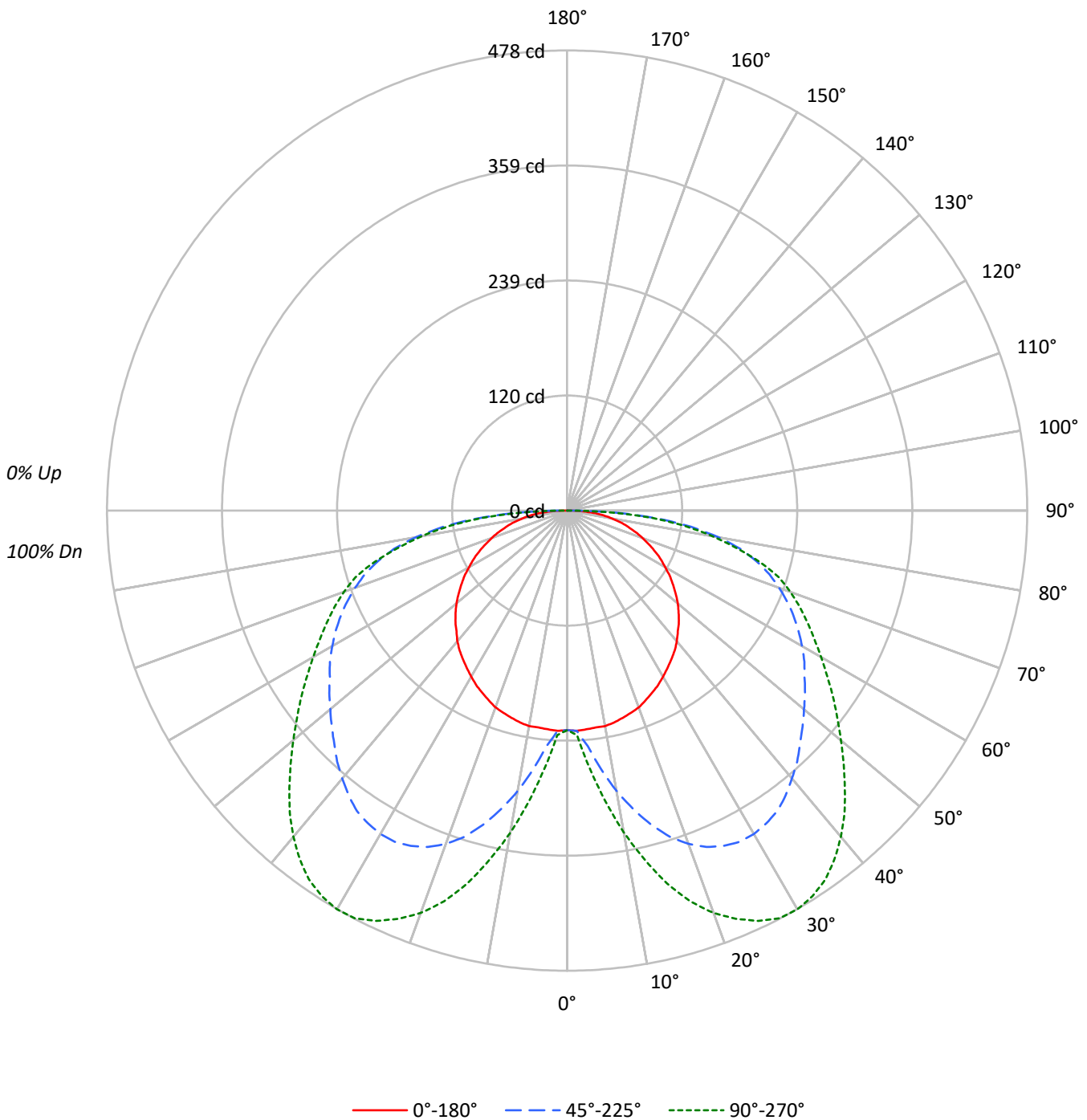
Lumens per Lamp: N/A  
Luminaire Lumens: 1490.0 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 2.23 / 2.03  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	668	668	668
5°	671	723	790
10°	676	880	1010
15°	676	1025	1216
20°	679	1149	1387
25°	675	1242	1520
30°	674	1312	1618
35°	675	1362	1673
40°	678	1390	1692
45°	680	1418	1691
50°	684	1464	1692
55°	686	1538	1722
60°	689	1651	1784
65°	700	1801	1910
70°	714	2007	2113
75°	745	2305	2355
80°	800	2695	2592
85°	914	3157	3009



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.9	1.7
10°-20°	92.4	6.2
20°-30°	168.3	11.3
30°-40°	224.3	15.1
40°-50°	247.1	16.6
50°-60°	245.6	16.5
60°-70°	226.5	15.2
70°-80°	181.6	12.2
80°-90°	79.3	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°	285.6	19.2
0°-40°	509.9	34.2
0°-60°	1002.7	67.3
0°-90°	1490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1490.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	228	228	228	228	228	
5°	228	230	246	262	268	22
15°	223	269	338	383	401	63
25°	209	290	384	447	470	96
35°	189	283	381	445	468	118
45°	164	256	342	393	408	127
55°	134	225	301	331	337	120
65°	101	190	260	272	276	100
75°	66	146	204	207	208	69
85°	27	67	94	88	90	28
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°	228.1	228.1	228.1	228.1	228.1	228.1	228.1	228.1	228.1	228.1	228.1
2.5°	229.0	229.0	229.0	228.1	228.1	228.1	228.1	228.1	228.1	229.0	229.0
5°	228.1	228.1	229.0	228.1	229.0	230.8	233.4	237.8	240.4	245.7	249.2
7.5°	227.3	228.1	228.1	229.9	233.4	240.4	247.5	256.2	264.1	271.1	277.3
10°	227.3	227.3	228.1	232.5	242.2	253.6	265.0	275.5	285.2	295.7	304.5
12.5°	225.5	225.5	228.1	237.8	251.8	266.8	279.0	293.1	306.2	317.7	328.2
15°	222.9	223.8	229.0	243.1	260.6	277.3	293.1	308.9	324.7	337.8	350.1
17.5°	220.3	221.1	229.9	248.3	267.6	286.9	304.5	322.9	339.6	355.4	368.5
20°	217.6	217.6	230.8	251.8	272.9	294.8	314.1	333.4	351.9	368.5	383.5
22.5°	213.2	215.0	230.8	254.5	277.3	299.2	320.3	341.3	360.7	378.2	394.0
25°	208.8	211.5	229.9	254.5	278.2	301.9	323.8	345.7	365.9	384.3	401.0
27.5°	204.5	207.1	228.1	253.6	279.0	302.7	326.4	348.4	369.4	387.9	405.4
30°	199.2	203.6	225.5	251.0	277.3	301.9	324.7	347.5	368.5	387.9	405.4
32.5°	193.9	199.2	222.9	248.3	274.7	298.3	322.9	344.9	365.9	385.2	403.6
35°	188.7	193.9	218.5	244.8	270.3	294.8	318.5	340.5	360.7	380.8	397.5
37.5°	183.4	189.5	213.2	239.6	265.0	288.7	312.4	334.3	354.5	372.9	389.6
40°	177.3	184.3	208.0	233.4	258.0	281.7	304.5	325.6	345.7	363.3	379.1
42.5°	170.2	178.1	201.8	227.3	251.8	274.7	297.5	317.7	336.1	353.6	368.5
45°	164.1	172.9	195.7	220.3	244.8	266.8	289.6	308.9	326.4	342.2	356.3
47.5°	157.1	166.7	189.5	213.2	236.9	259.7	280.8	299.2	315.9	331.7	344.9
50°	150.1	159.7	182.5	206.2	229.9	251.8	272.0	290.5	306.2	321.2	333.4
52.5°	142.2	153.6	175.5	199.2	222.0	243.9	263.2	281.7	297.5	311.5	322.0
55°	134.3	145.7	168.5	192.2	214.1	236.0	255.4	272.9	287.8	301.0	311.5
57.5°	126.4	138.6	161.5	184.3	206.2	228.1	246.6	264.1	279.0	292.2	301.0
60°	117.6	131.6	153.6	176.4	198.3	219.4	238.7	255.4	269.4	281.7	289.6
62.5°	109.7	123.7	145.7	167.6	189.5	210.6	229.9	246.6	259.7	271.1	278.2
65°	100.9	115.0	136.9	158.8	179.9	200.9	220.3	236.0	249.2	259.7	265.9
67.5°	92.1	107.1	128.1	149.2	171.1	191.3	209.7	225.5	237.8	247.5	252.7
70°	83.4	98.3	118.5	139.5	160.6	180.8	198.3	214.1	225.5	234.3	238.7
72.5°	74.6	89.5	108.8	129.0	149.2	169.4	186.0	200.9	211.5	220.3	223.8
75°	65.8	79.9	98.3	116.7	136.0	156.2	172.0	186.0	196.6	203.6	206.2
77.5°	57.0	70.2	86.9	104.4	122.8	141.3	157.1	169.4	178.1	184.3	186.0
80°	47.4	59.7	74.6	90.4	106.2	123.7	136.9	148.3	156.2	159.7	158.8
82.5°	37.7	47.4	59.7	72.8	86.0	100.9	112.3	121.1	127.2	129.9	128.1
85°	27.2	33.3	41.2	50.9	61.4	72.8	81.6	87.7	92.1	93.9	92.1
87.5°	14.0	15.8	19.3	23.7	29.8	37.7	43.0	48.3	48.3	50.0	49.1
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°	228.1	228.1	228.1	228.1	228.1	228.1	228.1	228.1
2.5°	229.9	229.9	230.8	231.7	231.7	231.7	231.7	233.4
5°	254.5	257.1	260.6	263.2	264.1	265.0	266.8	268.5
7.5°	282.6	287.8	291.3	297.5	299.2	301.0	301.9	304.5
10°	312.4	319.4	323.8	329.1	333.4	335.2	337.0	339.6
12.5°	337.0	345.7	352.8	359.8	363.3	367.7	368.5	371.2
15°	361.5	371.2	379.1	387.0	392.2	395.8	398.4	401.0
17.5°	381.7	391.4	401.0	410.7	415.9	420.3	423.0	425.6
20°	396.6	408.9	419.4	429.1	434.4	439.6	442.3	444.9
22.5°	408.0	421.2	432.6	442.3	449.3	455.4	458.1	458.9
25°	416.8	430.0	442.3	451.9	459.8	466.0	468.6	470.3
27.5°	421.2	435.2	448.4	458.9	466.8	473.0	475.6	477.4
30°	422.1	436.1	449.3	459.8	467.7	473.8	476.5	478.2
32.5°	419.4	434.4	446.6	457.2	465.1	471.2	473.8	474.7
35°	413.3	428.2	440.5	450.2	458.1	463.3	466.8	467.7
37.5°	404.5	418.6	430.0	439.6	447.5	452.8	455.4	456.3
40°	394.0	406.3	417.7	426.5	433.5	438.7	441.4	442.3
42.5°	382.6	394.0	403.6	412.4	418.6	423.0	425.6	426.5
45°	369.4	380.0	389.6	396.6	401.9	405.4	408.0	408.0
47.5°	356.3	365.9	374.7	380.0	384.3	387.0	388.7	389.6
50°	344.0	352.8	358.9	364.2	367.7	369.4	371.2	371.2
52.5°	331.7	338.7	344.0	347.5	351.0	351.9	353.6	353.6
55°	320.3	325.6	329.9	332.6	334.3	335.2	336.1	337.0
57.5°	308.0	312.4	315.0	316.8	318.5	319.4	319.4	320.3
60°	295.7	299.2	301.0	301.9	302.7	303.6	304.5	304.5
62.5°	282.6	285.2	286.1	286.9	287.8	288.7	289.6	289.6
65°	269.4	271.1	271.1	272.0	272.9	274.7	274.7	275.5
67.5°	255.4	256.2	256.2	257.1	258.0	259.7	260.6	261.5
70°	240.4	241.3	241.3	242.2	243.1	243.9	245.7	246.6
72.5°	224.6	224.6	224.6	225.5	227.3	228.1	229.9	230.8
75°	207.1	206.2	207.1	206.2	206.2	207.1	207.1	208.0
77.5°	185.2	182.5	180.8	179.9	179.0	179.0	179.9	180.8
80°	157.1	154.4	152.7	151.8	151.8	152.7	152.7	153.6
82.5°	127.2	124.6	122.8	122.8	122.0	122.8	122.8	123.7
85°	92.1	90.4	88.6	87.7	87.7	88.6	88.6	89.5
87.5°	49.1	48.3	47.4	47.4	45.6	47.4	47.4	47.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)