

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: P188266

Luminaire Tested: **22SR-LD2-29-C-UNV-L840-CD1-BR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188266
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-LD2-29-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: 1740.0 lumens
Efficiency: N/A
Efficacy: 74.4 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

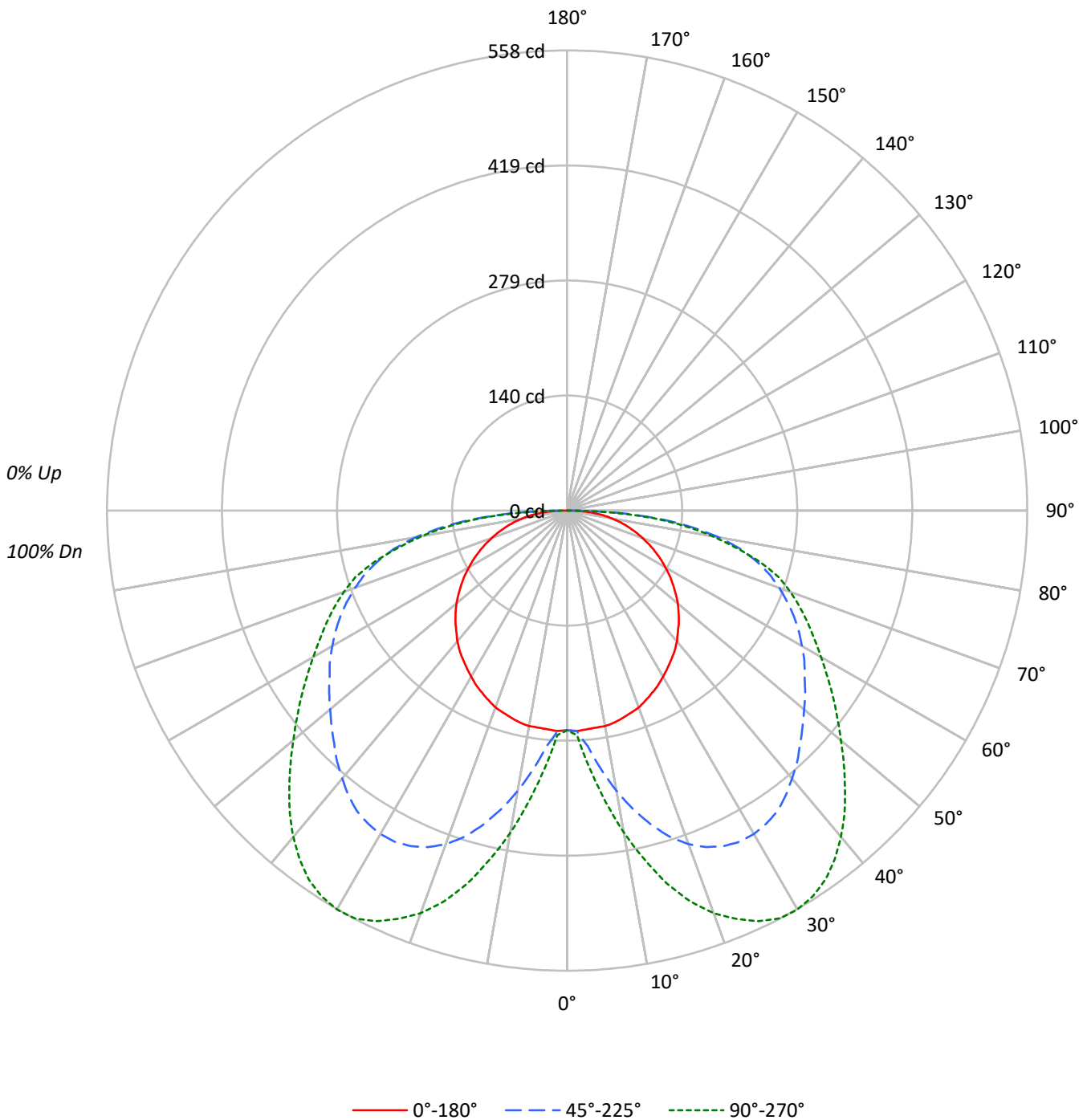
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	781	781	781
5°	784	844	922
10°	790	1027	1180
15°	790	1197	1421
20°	792	1342	1620
25°	789	1451	1776
30°	787	1532	1890
35°	788	1591	1954
40°	792	1623	1976
45°	794	1656	1974
50°	799	1710	1976
55°	801	1796	2010
60°	805	1927	2084
65°	817	2103	2231
70°	834	2344	2466
75°	871	2691	2750
80°	933	3147	3025
85°	1069	3685	3513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	1.7
10°-20°	107.9	6.2
20°-30°	196.5	11.3
30°-40°	262.0	15.1
40°-50°	288.6	16.6
50°-60°	286.8	16.5
60°-70°	264.5	15.2
70°-80°	212.0	12.2
80°-90°	92.6	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°	333.5	19.2
0°-40°	595.5	34.2
0°-60°	1170.9	67.3
0°-90°	1740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	266	266	266	266	266	
5°	266	268	287	306	314	25
15°	260	314	394	447	468	74
25°	244	339	449	522	549	113
35°	220	330	445	520	546	138
45°	192	299	400	459	476	148
55°	157	263	352	387	394	140
65°	118	222	303	317	322	117
75°	77	171	238	241	243	81
85°	32	78	110	103	104	33
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°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4
2.5°	267.5	267.5	267.5	266.4	266.4	266.4	266.4	266.4	266.4	267.5	267.5
5°	266.4	266.4	267.5	266.4	267.5	269.5	272.6	277.7	280.8	286.9	291.0
7.5°	265.4	266.4	266.4	268.5	272.6	280.8	289.0	299.2	308.4	316.6	323.8
10°	265.4	265.4	266.4	271.6	282.8	296.1	309.5	321.8	333.0	345.3	355.6
12.5°	263.4	263.4	266.4	277.7	294.1	311.5	325.9	342.3	357.6	371.0	383.2
15°	260.3	261.3	267.5	283.9	304.3	323.8	342.3	360.7	379.2	394.5	408.9
17.5°	257.2	258.2	268.5	290.0	312.5	335.1	355.6	377.1	396.6	415.0	430.4
20°	254.1	254.1	269.5	294.1	318.7	344.3	366.9	389.4	410.9	430.4	447.8
22.5°	249.0	251.1	269.5	297.2	323.8	349.4	374.0	398.6	421.2	441.7	460.1
25°	243.9	247.0	268.5	297.2	324.8	352.5	378.1	403.7	427.3	448.8	468.3
27.5°	238.8	241.8	266.4	296.1	325.9	353.5	381.2	406.8	431.4	452.9	473.4
30°	232.6	237.7	263.4	293.1	323.8	352.5	379.2	405.8	430.4	452.9	473.4
32.5°	226.5	232.6	260.3	290.0	320.7	348.4	377.1	402.7	427.3	449.9	471.4
35°	220.3	226.5	255.2	285.9	315.6	344.3	372.0	397.6	421.2	444.7	464.2
37.5°	214.2	221.3	249.0	279.8	309.5	337.1	364.8	390.4	414.0	435.5	455.0
40°	207.0	215.2	242.9	272.6	301.3	328.9	355.6	380.2	403.7	424.2	442.7
42.5°	198.8	208.0	235.7	265.4	294.1	320.7	347.4	371.0	392.5	413.0	430.4
45°	191.6	201.9	228.5	257.2	285.9	311.5	338.2	360.7	381.2	399.6	416.0
47.5°	183.4	194.7	221.3	249.0	276.7	303.3	327.9	349.4	368.9	387.3	402.7
50°	175.2	186.5	213.1	240.8	268.5	294.1	317.7	339.2	357.6	375.1	389.4
52.5°	166.0	179.3	204.9	232.6	259.3	284.9	307.4	328.9	347.4	363.8	376.1
55°	156.8	170.1	196.7	224.4	250.0	275.7	298.2	318.7	336.1	351.5	363.8
57.5°	147.6	161.9	188.6	215.2	240.8	266.4	287.9	308.4	325.9	341.2	351.5
60°	137.3	153.7	179.3	206.0	231.6	256.2	278.7	298.2	314.6	328.9	338.2
62.5°	128.1	144.5	170.1	195.7	221.3	245.9	268.5	287.9	303.3	316.6	324.8
65°	117.8	134.2	159.9	185.5	210.1	234.7	257.2	275.7	291.0	303.3	310.5
67.5°	107.6	125.0	149.6	174.2	199.8	223.4	244.9	263.4	277.7	289.0	295.1
70°	97.3	114.8	138.3	162.9	187.5	211.1	231.6	250.0	263.4	273.6	278.7
72.5°	87.1	104.5	127.1	150.6	174.2	197.8	217.2	234.7	247.0	257.2	261.3
75°	76.9	93.3	114.8	136.3	158.8	182.4	200.8	217.2	229.5	237.7	240.8
77.5°	66.6	82.0	101.4	121.9	143.5	165.0	183.4	197.8	208.0	215.2	217.2
80°	55.3	69.7	87.1	105.5	124.0	144.5	159.9	173.2	182.4	186.5	185.5
82.5°	44.1	55.3	69.7	85.1	100.4	117.8	131.2	141.4	148.6	151.7	149.6
85°	31.8	38.9	48.2	59.4	71.7	85.1	95.3	102.5	107.6	109.6	107.6
87.5°	16.4	18.4	22.5	27.7	34.8	44.1	50.2	56.4	56.4	58.4	57.4
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°	266.4	266.4	266.4	266.4	266.4	266.4	266.4	266.4
2.5°	268.5	268.5	269.5	270.5	270.5	270.5	270.5	272.6
5°	297.2	300.2	304.3	307.4	308.4	309.5	311.5	313.6
7.5°	330.0	336.1	340.2	347.4	349.4	351.5	352.5	355.6
10°	364.8	373.0	378.1	384.3	389.4	391.4	393.5	396.6
12.5°	393.5	403.7	411.9	420.1	424.2	429.4	430.4	433.5
15°	422.2	433.5	442.7	451.9	458.1	462.2	465.2	468.3
17.5°	445.8	457.0	468.3	479.6	485.7	490.8	493.9	497.0
20°	463.2	477.5	489.8	501.1	507.2	513.4	516.5	519.5
22.5°	476.5	491.9	505.2	516.5	524.7	531.8	534.9	535.9
25°	486.7	502.1	516.5	527.7	537.0	544.1	547.2	549.3
27.5°	491.9	508.3	523.6	535.9	545.2	552.3	555.4	557.5
30°	492.9	509.3	524.7	537.0	546.2	553.4	556.4	558.5
32.5°	489.8	507.2	521.6	533.9	543.1	550.3	553.4	554.4
35°	482.6	500.1	514.4	525.7	534.9	541.1	545.2	546.2
37.5°	472.4	488.8	502.1	513.4	522.6	528.8	531.8	532.9
40°	460.1	474.5	487.8	498.0	506.2	512.4	515.4	516.5
42.5°	446.8	460.1	471.4	481.6	488.8	493.9	497.0	498.0
45°	431.4	443.7	455.0	463.2	469.3	473.4	476.5	476.5
47.5°	416.0	427.3	437.6	443.7	448.8	451.9	454.0	455.0
50°	401.7	411.9	419.1	425.3	429.4	431.4	433.5	433.5
52.5°	387.3	395.5	401.7	405.8	409.9	410.9	413.0	413.0
55°	374.0	380.2	385.3	388.4	390.4	391.4	392.5	393.5
57.5°	359.7	364.8	367.9	369.9	372.0	373.0	373.0	374.0
60°	345.3	349.4	351.5	352.5	353.5	354.6	355.6	355.6
62.5°	330.0	333.0	334.1	335.1	336.1	337.1	338.2	338.2
65°	314.6	316.6	316.6	317.7	318.7	320.7	320.7	321.8
67.5°	298.2	299.2	299.2	300.2	301.3	303.3	304.3	305.4
70°	280.8	281.8	281.8	282.8	283.9	284.9	286.9	287.9
72.5°	262.3	262.3	262.3	263.4	265.4	266.4	268.5	269.5
75°	241.8	240.8	241.8	240.8	240.8	241.8	241.8	242.9
77.5°	216.2	213.1	211.1	210.1	209.0	209.0	210.1	211.1
80°	183.4	180.4	178.3	177.3	177.3	178.3	178.3	179.3
82.5°	148.6	145.5	143.5	143.5	142.4	143.5	143.5	144.5
85°	107.6	105.5	103.5	102.5	102.5	103.5	103.5	104.5
87.5°	57.4	56.4	55.3	55.3	53.3	55.3	55.3	55.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)