

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: P188268

Luminaire Tested: **22SR-LD2-29-C-UNV-L835-CD1-BR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188268
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-L835-CD1-BR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH BELLADONNA ROSE

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1706.0 lumens
Efficiency: N/A
Efficacy: 72.9 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

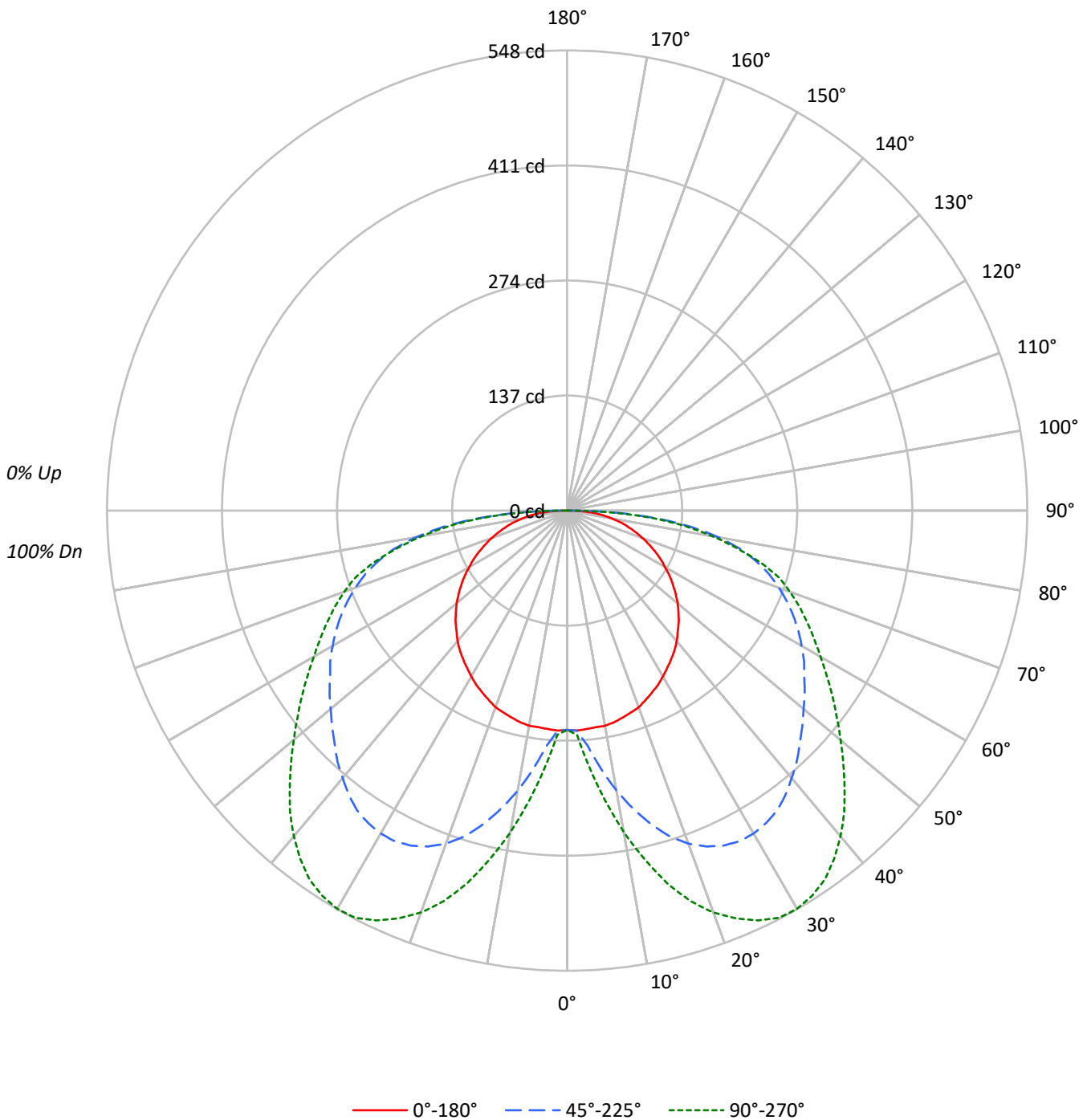
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	765	765	765
5°	768	827	904
10°	774	1007	1157
15°	774	1173	1393
20°	777	1316	1588
25°	773	1423	1741
30°	772	1503	1853
35°	773	1560	1915
40°	776	1591	1937
45°	779	1624	1936
50°	783	1676	1937
55°	785	1760	1971
60°	789	1890	2043
65°	801	2062	2187
70°	817	2299	2418
75°	854	2639	2696
80°	916	3086	2966
85°	1046	3614	3446



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	1.7
10°-20°	105.8	6.2
20°-30°	192.7	11.3
30°-40°	256.9	15.1
40°-50°	283.0	16.6
50°-60°	281.2	16.5
60°-70°	259.3	15.2
70°-80°	207.9	12.2
80°-90°	90.8	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°	327.0	19.2
0°-40°	583.8	34.2
0°-60°	1148.0	67.3
0°-90°	1706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	261	261	261	261	261	
5°	261	263	281	300	307	25
15°	255	308	387	439	459	72
25°	239	332	440	512	538	110
35°	216	324	436	510	536	135
45°	188	293	392	450	467	145
55°	154	258	345	379	386	137
65°	116	218	297	311	316	114
75°	75	167	233	237	238	79
85°	31	77	108	101	102	32
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°	261.2	261.2	261.2	261.2	261.2	261.2	261.2	261.2	261.2	261.2	261.2
2.5°	262.2	262.2	262.2	261.2	261.2	261.2	261.2	261.2	261.2	262.2	262.2
5°	261.2	261.2	262.2	261.2	262.2	264.2	267.3	272.3	275.3	281.3	285.3
7.5°	260.2	261.2	261.2	263.2	267.3	275.3	283.3	293.4	302.4	310.5	317.5
10°	260.2	260.2	261.2	266.2	277.3	290.4	303.4	315.5	326.5	338.6	348.6
12.5°	258.2	258.2	261.2	272.3	288.4	305.4	319.5	335.6	350.6	363.7	375.8
15°	255.2	256.2	262.2	278.3	298.4	317.5	335.6	353.7	371.7	386.8	400.9
17.5°	252.2	253.2	263.2	284.3	306.4	328.5	348.6	369.7	388.8	406.9	422.0
20°	249.2	249.2	264.2	288.4	312.5	337.6	359.7	381.8	402.9	422.0	439.1
22.5°	244.1	246.2	264.2	291.4	317.5	342.6	366.7	390.8	412.9	433.0	451.1
25°	239.1	242.1	263.2	291.4	318.5	345.6	370.7	395.9	419.0	440.1	459.2
27.5°	234.1	237.1	261.2	290.4	319.5	346.6	373.8	398.9	423.0	444.1	464.2
30°	228.1	233.1	258.2	287.3	317.5	345.6	371.7	397.9	422.0	444.1	464.2
32.5°	222.0	228.1	255.2	284.3	314.5	341.6	369.7	394.8	419.0	441.1	462.2
35°	216.0	222.0	250.2	280.3	309.4	337.6	364.7	389.8	412.9	436.0	455.1
37.5°	210.0	217.0	244.1	274.3	303.4	330.5	357.7	382.8	405.9	427.0	446.1
40°	203.0	211.0	238.1	267.3	295.4	322.5	348.6	372.7	395.9	415.9	434.0
42.5°	194.9	204.0	231.1	260.2	288.4	314.5	340.6	363.7	384.8	404.9	422.0
45°	187.9	197.9	224.0	252.2	280.3	305.4	331.6	353.7	373.8	391.8	407.9
47.5°	179.8	190.9	217.0	244.1	271.3	297.4	321.5	342.6	361.7	379.8	394.8
50°	171.8	182.9	209.0	236.1	263.2	288.4	311.5	332.6	350.6	367.7	381.8
52.5°	162.8	175.8	200.9	228.1	254.2	279.3	301.4	322.5	340.6	356.7	368.7
55°	153.7	166.8	192.9	220.0	245.1	270.3	292.4	312.5	329.5	344.6	356.7
57.5°	144.7	158.7	184.9	211.0	236.1	261.2	282.3	302.4	319.5	334.6	344.6
60°	134.6	150.7	175.8	201.9	227.1	251.2	273.3	292.4	308.4	322.5	331.6
62.5°	125.6	141.7	166.8	191.9	217.0	241.1	263.2	282.3	297.4	310.5	318.5
65°	115.5	131.6	156.7	181.9	206.0	230.1	252.2	270.3	285.3	297.4	304.4
67.5°	105.5	122.6	146.7	170.8	195.9	219.0	240.1	258.2	272.3	283.3	289.4
70°	95.4	112.5	135.6	159.7	183.9	207.0	227.1	245.1	258.2	268.3	273.3
72.5°	85.4	102.5	124.6	147.7	170.8	193.9	213.0	230.1	242.1	252.2	256.2
75°	75.4	91.4	112.5	133.6	155.7	178.8	196.9	213.0	225.1	233.1	236.1
77.5°	65.3	80.4	99.5	119.6	140.7	161.8	179.8	193.9	204.0	211.0	213.0
80°	54.3	68.3	85.4	103.5	121.6	141.7	156.7	169.8	178.8	182.9	181.9
82.5°	43.2	54.3	68.3	83.4	98.5	115.5	128.6	138.6	145.7	148.7	146.7
85°	31.1	38.2	47.2	58.3	70.3	83.4	93.4	100.5	105.5	107.5	105.5
87.5°	16.1	18.1	22.1	27.1	34.2	43.2	49.2	55.3	55.3	57.3	56.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188268

CATALOG NUMBER: 22SR-LD2-29-C-UNV-L835-CD1-BR-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	261.2	261.2	261.2	261.2	261.2	261.2	261.2	261.2
2.5°	263.2	263.2	264.2	265.2	265.2	265.2	265.2	267.3
5°	291.4	294.4	298.4	301.4	302.4	303.4	305.4	307.4
7.5°	323.5	329.5	333.6	340.6	342.6	344.6	345.6	348.6
10°	357.7	365.7	370.7	376.8	381.8	383.8	385.8	388.8
12.5°	385.8	395.9	403.9	411.9	415.9	421.0	422.0	425.0
15°	413.9	425.0	434.0	443.1	449.1	453.1	456.1	459.2
17.5°	437.0	448.1	459.2	470.2	476.2	481.3	484.3	487.3
20°	454.1	468.2	480.2	491.3	497.3	503.4	506.4	509.4
22.5°	467.2	482.3	495.3	506.4	514.4	521.4	524.5	525.5
25°	477.2	492.3	506.4	517.4	526.5	533.5	536.5	538.5
27.5°	482.3	498.3	513.4	525.5	534.5	541.5	544.6	546.6
30°	483.3	499.3	514.4	526.5	535.5	542.5	545.6	547.6
32.5°	480.2	497.3	511.4	523.5	532.5	539.5	542.5	543.5
35°	473.2	490.3	504.4	515.4	524.5	530.5	534.5	535.5
37.5°	463.2	479.2	492.3	503.4	512.4	518.4	521.4	522.4
40°	451.1	465.2	478.2	488.3	496.3	502.4	505.4	506.4
42.5°	438.1	451.1	462.2	472.2	479.2	484.3	487.3	488.3
45°	423.0	435.0	446.1	454.1	460.2	464.2	467.2	467.2
47.5°	407.9	419.0	429.0	435.0	440.1	443.1	445.1	446.1
50°	393.8	403.9	410.9	417.0	421.0	423.0	425.0	425.0
52.5°	379.8	387.8	393.8	397.9	401.9	402.9	404.9	404.9
55°	366.7	372.7	377.8	380.8	382.8	383.8	384.8	385.8
57.5°	352.7	357.7	360.7	362.7	364.7	365.7	365.7	366.7
60°	338.6	342.6	344.6	345.6	346.6	347.6	348.6	348.6
62.5°	323.5	326.5	327.5	328.5	329.5	330.5	331.6	331.6
65°	308.4	310.5	310.5	311.5	312.5	314.5	314.5	315.5
67.5°	292.4	293.4	293.4	294.4	295.4	297.4	298.4	299.4
70°	275.3	276.3	276.3	277.3	278.3	279.3	281.3	282.3
72.5°	257.2	257.2	257.2	258.2	260.2	261.2	263.2	264.2
75°	237.1	236.1	237.1	236.1	236.1	237.1	237.1	238.1
77.5°	212.0	209.0	207.0	206.0	205.0	205.0	206.0	207.0
80°	179.8	176.8	174.8	173.8	173.8	174.8	174.8	175.8
82.5°	145.7	142.7	140.7	140.7	139.7	140.7	140.7	141.7
85°	105.5	103.5	101.5	100.5	100.5	101.5	101.5	102.5
87.5°	56.3	55.3	54.3	54.3	52.2	54.3	54.3	54.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)