

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: P188379

Luminaire Tested: **22SR-LD2-20-C-UNV-L835-CD1-SO-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24795)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-20-C-UNV-L835-CD1-SO-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1395.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.85 / 1.71
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

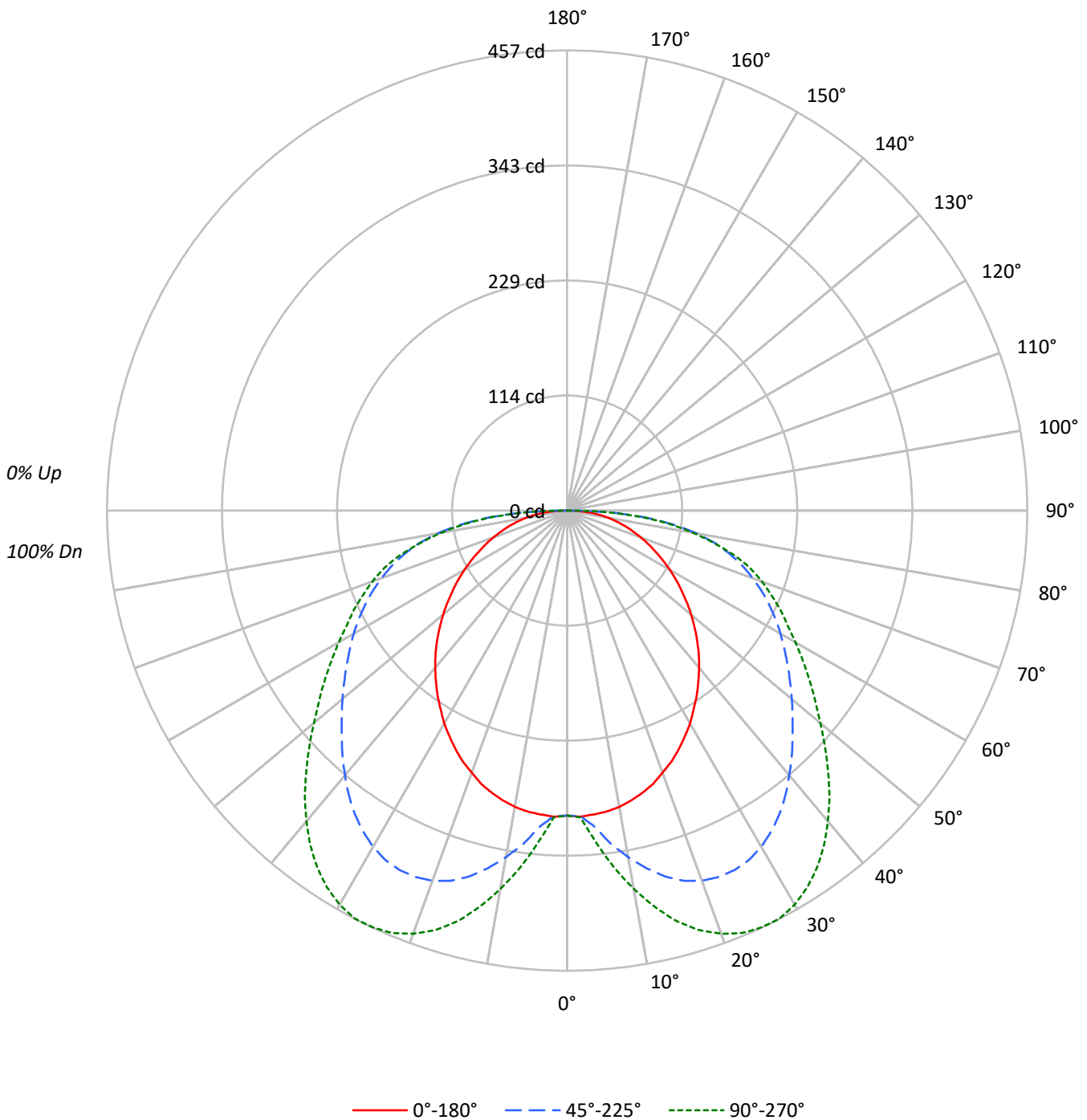
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	107	101	96	91	104	99	94	90	94	90	87	90	87	84	87	84	82
2	96	86	79	72	93	85	77	71	81	75	70	77	72	68	74	70	66
3	87	75	66	59	84	73	65	58	70	63	57	67	61	56	65	60	55
4	79	66	56	49	77	64	56	49	62	54	48	59	53	47	57	51	46
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40
6	67	52	43	36	65	51	42	36	49	41	35	48	41	35	46	40	35
7	62	47	38	31	60	46	38	31	45	37	31	43	36	31	42	35	31
8	57	43	34	28	56	42	34	28	41	33	27	40	32	27	38	32	27
9	53	39	31	25	52	39	30	25	37	30	25	36	29	24	35	29	24
10	50	36	28	22	49	36	28	22	35	27	22	34	27	22	33	26	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	888	888	888
5°	891	927	973
10°	889	1040	1135
15°	879	1141	1282
20°	863	1219	1394
25°	847	1273	1476
30°	826	1305	1529
35°	802	1316	1548
40°	780	1313	1540
45°	757	1312	1519
50°	733	1328	1496
55°	709	1365	1502
60°	689	1435	1535
65°	673	1536	1621
70°	667	1681	1763
75°	674	1896	1951
80°	704	2204	2146
85°	760	2599	2505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.1	2.2
10°-20°	103.7	7.4
20°-30°	174.4	12.5
30°-40°	219.8	15.8
40°-50°	231.7	16.6
50°-60°	220.8	15.8
60°-70°	195.4	14.0
70°-80°	151.8	10.9
80°-90°	66.4	4.8
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°	309.2	22.2
0°-40°	528.9	37.9
0°-60°	981.5	70.4
0°-90°	1395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	303	303	303	303	303	
5°	303	304	315	327	331	29
15°	290	324	376	411	422	82
25°	262	323	394	440	457	121
35°	224	295	368	416	433	140
45°	183	252	317	354	366	141
55°	139	209	267	290	294	124
65°	97	168	222	230	234	96
75°	60	123	168	171	172	63
85°	23	56	77	74	74	24
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°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	304.3	304.3	303.6	303.6	303.6	303.6	302.9	302.9	303.6	303.6	303.6
5°	302.9	302.9	302.9	302.9	302.9	304.3	305.6	309.0	311.8	315.2	318.6
7.5°	301.5	300.8	300.8	302.2	304.9	309.7	315.2	322.0	328.2	333.7	338.4
10°	298.8	298.8	298.8	302.9	309.7	318.6	326.8	334.3	341.9	349.4	356.9
12.5°	294.7	294.7	296.1	304.3	314.5	325.5	335.0	345.3	355.5	363.7	372.6
15°	289.9	289.9	293.3	304.9	317.9	330.2	342.5	354.2	365.8	376.1	385.6
17.5°	284.4	283.7	290.6	304.9	319.3	333.7	347.3	361.0	374.0	385.6	395.9
20°	276.9	277.6	287.2	303.6	319.3	335.7	350.1	364.4	378.8	391.1	402.0
22.5°	270.1	271.4	283.1	300.8	317.9	335.0	350.8	365.8	380.8	393.8	405.5
25°	261.9	263.2	276.9	296.1	313.8	331.6	348.0	364.4	379.5	393.8	406.1
27.5°	253.0	255.0	270.8	289.9	309.0	326.8	343.9	360.3	376.7	391.1	403.4
30°	244.1	246.8	263.9	283.7	302.2	320.7	338.4	354.9	371.3	385.6	398.6
32.5°	233.8	237.3	255.7	275.5	294.7	312.5	330.2	347.3	363.1	377.4	390.4
35°	224.3	228.4	246.8	266.7	285.8	304.3	321.4	338.4	353.5	367.8	380.8
37.5°	214.0	218.1	237.3	257.1	275.5	294.0	311.1	327.5	342.5	356.2	368.5
40°	203.8	208.5	227.0	246.8	264.6	283.1	299.5	315.9	330.2	343.2	355.5
42.5°	193.5	199.0	217.4	236.6	254.3	272.1	288.5	304.3	317.9	330.2	341.2
45°	182.6	188.7	206.5	225.6	243.4	260.5	276.9	292.0	304.9	316.6	327.5
47.5°	171.6	178.5	196.2	215.4	232.5	249.6	264.6	279.6	292.0	303.6	313.1
50°	160.7	168.2	186.0	204.4	221.5	238.6	253.7	268.0	279.6	291.3	300.2
52.5°	149.7	158.6	176.4	194.2	211.3	227.7	242.7	256.4	268.0	279.0	287.2
55°	138.8	148.4	166.1	183.9	201.0	217.4	231.8	246.1	257.1	267.3	274.9
57.5°	128.5	138.1	155.9	173.7	190.8	207.2	221.5	235.2	246.1	255.7	263.2
60°	117.6	128.5	145.6	163.4	180.5	196.9	211.3	224.9	235.9	244.8	250.9
62.5°	107.3	118.3	136.1	153.2	170.2	186.7	201.0	214.7	224.9	233.2	238.6
65°	97.1	108.7	125.8	142.9	160.0	176.4	190.8	203.8	214.0	221.5	226.3
67.5°	87.5	99.1	116.2	132.6	149.7	165.5	180.5	192.8	201.7	209.2	212.6
70°	77.9	89.6	106.0	122.4	138.8	154.5	168.9	181.2	190.1	196.2	199.6
72.5°	68.4	80.0	95.7	111.4	127.9	142.9	157.3	168.9	177.1	182.6	185.3
75°	59.5	70.4	85.5	100.5	115.6	130.6	144.3	155.2	162.7	167.5	170.2
77.5°	50.6	61.5	75.2	88.9	103.2	117.6	130.6	140.2	147.7	151.1	153.8
80°	41.7	51.3	63.6	75.9	89.6	101.9	114.2	122.4	128.5	130.6	131.3
82.5°	32.8	40.3	50.6	60.9	72.5	83.4	93.7	99.8	105.3	106.0	106.7
85°	22.6	27.3	34.9	42.4	51.3	60.2	68.4	73.2	77.3	77.3	77.9
87.5°	11.6	13.0	16.4	21.2	26.7	31.5	37.6	39.7	42.4	43.1	43.1
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°	302.9	302.9	302.9	302.9	302.9	302.9	302.9	302.9
2.5°	304.3	304.3	304.3	304.9	304.9	304.9	304.9	304.9
5°	321.4	323.4	326.1	327.5	328.9	330.2	330.9	330.9
7.5°	341.9	345.3	349.4	352.1	354.2	356.2	357.6	357.6
10°	361.7	367.2	370.6	375.4	378.1	379.5	381.5	381.5
12.5°	378.8	384.9	390.4	395.9	398.6	400.7	403.4	403.4
15°	393.1	401.3	407.5	413.7	417.1	419.8	421.9	422.5
17.5°	404.8	413.0	419.8	426.6	430.8	434.2	436.2	436.9
20°	411.6	421.2	428.7	435.5	440.3	444.4	446.5	447.2
22.5°	416.4	426.0	434.2	441.7	447.2	451.3	453.3	454.0
25°	417.1	427.3	436.2	443.7	449.9	454.0	456.0	456.7
27.5°	415.0	426.0	434.9	443.1	449.2	453.3	456.0	456.7
30°	410.2	421.2	430.8	439.0	444.4	449.2	451.3	451.9
32.5°	402.0	413.0	422.5	430.1	436.2	441.0	443.1	443.7
35°	392.5	402.7	411.6	419.8	425.3	430.1	432.8	432.8
37.5°	379.5	389.7	398.6	406.1	411.6	416.4	418.4	419.1
40°	365.8	375.4	383.6	391.1	396.6	400.7	402.7	402.7
42.5°	351.4	361.0	368.5	374.7	379.5	383.6	384.9	385.6
45°	336.4	344.6	351.4	356.9	361.0	364.4	365.8	366.5
47.5°	322.0	329.6	335.7	340.5	343.9	346.0	346.7	347.3
50°	307.7	314.5	319.3	323.4	325.5	327.5	328.2	328.2
52.5°	294.0	300.2	303.6	306.3	308.4	310.4	310.4	310.4
55°	281.0	285.8	288.5	290.6	292.0	293.3	294.0	294.0
57.5°	268.0	271.4	273.5	275.5	276.2	276.9	276.9	277.6
60°	255.0	257.8	259.1	260.5	260.5	261.2	261.9	261.9
62.5°	242.0	243.4	244.8	245.5	245.5	246.8	246.8	246.8
65°	228.4	229.7	230.4	230.4	231.1	232.5	232.5	233.8
67.5°	214.7	215.4	215.4	216.1	216.7	218.1	218.1	219.5
70°	201.0	201.7	201.0	202.4	202.4	203.8	204.4	205.8
72.5°	186.7	186.7	186.7	187.3	188.0	189.4	190.1	190.8
75°	170.2	170.9	170.9	170.9	170.2	170.9	170.9	172.3
77.5°	151.8	150.4	149.1	149.1	147.7	148.4	148.4	149.7
80°	129.2	127.9	126.5	126.5	125.1	126.5	127.2	127.2
82.5°	104.6	103.9	102.6	102.6	101.9	101.9	101.9	102.6
85°	76.6	75.9	74.5	74.5	73.8	73.8	74.5	74.5
87.5°	42.4	41.7	41.0	41.0	39.7	40.3	41.7	41.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)