

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: P188308

Luminaire Tested: **22SR-LD2-19-C-UNV-L835-CD1-MR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24792)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-19-C-UNV-L835-CD1-MR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1117.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 2.21 / 2.01
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

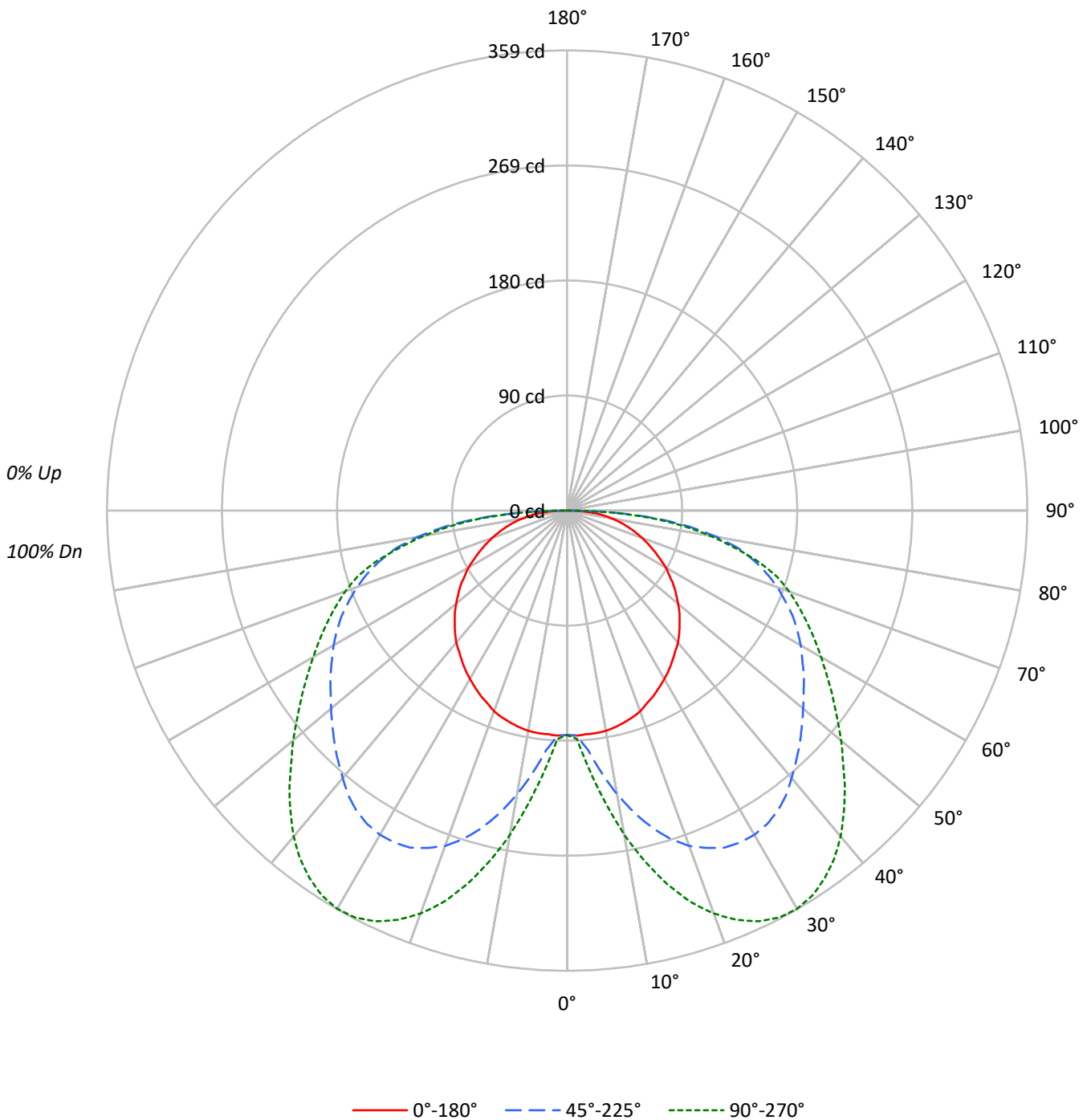
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	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	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	50
4	78	64	54	47	75	63	53	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	55	46	39	53	45	39	51	44	38	49	43	38	35
6	65	50	41	34	63	49	40	33	48	39	33	46	38	33	44	38	32	30
7	60	45	36	29	58	45	36	29	43	35	29	41	34	29	40	33	28	26
8	56	41	32	26	54	40	32	26	39	31	25	38	30	25	36	30	25	23
9	52	38	29	23	50	37	28	23	36	28	23	35	27	22	33	27	22	20
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	513	513	513
5°	515	551	599
10°	519	669	764
15°	519	777	915
20°	519	868	1043
25°	515	938	1143
30°	513	988	1214
35°	512	1024	1253
40°	515	1042	1269
45°	514	1064	1270
50°	515	1096	1272
55°	517	1151	1291
60°	521	1233	1340
65°	521	1345	1432
70°	532	1494	1578
75°	555	1708	1752
80°	596	1996	1907
85°	682	2306	2175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.0	1.7
10°-20°	70.1	6.3
20°-30°	127.0	11.4
30°-40°	168.7	15.1
40°-50°	185.5	16.6
50°-60°	183.9	16.5
60°-70°	169.3	15.2
70°-80°	135.2	12.1
80°-90°	58.4	5.2
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°	216.1	19.3
0°-40°	384.8	34.4
0°-60°	754.2	67.5
0°-90°	1117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	175	175	175	175	175	
5°	175	176	188	200	204	17
15°	171	205	256	290	302	48
25°	159	220	290	336	354	73
35°	143	213	286	334	350	90
45°	124	192	257	294	306	96
55°	101	169	225	248	253	90
65°	75	142	194	204	206	75
75°	49	108	151	154	155	52
85°	20	50	69	65	65	21
90°	0	0	0	0	0	



TEST NUMBER: P188308

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L835-CD1-MR-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1
2.5°	175.7	175.7	175.7	175.7	175.1	175.1	175.1	175.1	175.1	175.7	176.4
5°	175.1	175.1	175.1	175.7	175.7	177.1	179.0	181.6	184.2	187.5	191.4
7.5°	175.1	175.1	175.1	175.7	179.0	184.2	190.1	196.0	201.2	206.5	212.3
10°	174.4	174.4	174.4	178.4	185.5	194.0	202.5	210.4	217.6	224.7	231.9
12.5°	173.1	173.1	175.1	182.3	192.7	203.8	213.0	223.4	232.6	241.1	249.6
15°	171.2	171.2	175.1	186.2	199.3	211.0	223.4	235.2	246.3	256.1	265.9
17.5°	169.2	169.2	175.7	189.5	203.8	218.2	231.9	245.0	257.4	268.5	279.0
20°	166.6	166.6	175.7	192.1	207.8	223.4	238.5	252.2	265.9	278.3	289.4
22.5°	162.7	164.0	175.7	193.4	210.4	226.7	242.4	258.1	272.4	284.9	297.3
25°	159.4	161.4	175.1	193.4	211.0	228.7	245.7	261.3	276.4	290.1	302.5
27.5°	155.5	158.1	173.8	192.7	211.0	228.7	246.3	262.6	278.3	292.0	305.1
30°	151.6	154.8	171.8	190.8	209.7	228.0	245.0	262.0	277.7	292.0	305.1
32.5°	147.7	151.6	168.6	188.2	207.1	225.4	243.0	260.0	275.7	290.1	303.1
35°	143.1	147.7	165.3	184.9	203.8	222.1	239.1	256.1	271.8	286.2	298.6
37.5°	138.5	143.7	161.4	181.0	199.3	217.6	234.5	250.9	266.6	280.3	292.7
40°	134.6	139.2	156.8	176.4	194.7	212.3	229.3	245.0	260.0	272.4	284.9
42.5°	129.4	135.2	152.2	171.8	189.5	206.5	223.4	238.5	252.8	264.6	276.4
45°	124.1	130.7	147.7	165.9	184.2	200.6	216.9	231.9	245.0	256.8	267.2
47.5°	118.9	125.4	142.4	160.7	178.4	194.7	210.4	224.7	237.2	248.3	258.7
50°	113.0	120.9	137.2	154.8	172.5	188.8	203.8	217.6	230.0	240.4	250.2
52.5°	107.1	115.6	132.0	149.6	165.9	182.3	197.3	210.4	222.1	232.6	241.1
55°	101.3	109.8	126.7	143.7	160.1	177.1	191.4	204.5	216.3	225.4	233.2
57.5°	94.7	104.5	120.9	137.9	154.2	169.9	184.9	198.0	208.4	217.6	224.7
60°	88.9	98.7	115.0	131.3	148.3	164.0	178.4	190.8	201.2	210.4	216.9
62.5°	81.7	92.8	108.5	125.4	141.8	156.8	171.8	184.2	194.7	202.5	207.8
65°	75.1	86.2	101.9	118.3	134.6	150.3	164.6	177.1	186.2	194.0	198.6
67.5°	68.6	79.7	95.4	111.7	127.4	142.4	156.8	168.6	177.7	184.2	188.2
70°	62.1	73.2	88.2	103.9	119.6	134.6	148.3	159.4	167.9	174.4	177.7
72.5°	55.5	66.6	81.0	96.0	111.1	125.4	139.2	149.6	157.5	163.3	166.6
75°	49.0	59.5	73.2	87.5	101.3	115.6	128.7	138.5	146.3	150.9	153.5
77.5°	42.5	52.3	64.7	77.7	91.5	104.5	116.3	126.1	132.6	137.2	138.5
80°	35.3	44.4	54.9	67.3	79.1	91.5	101.9	110.4	116.3	118.3	118.3
82.5°	28.7	35.3	43.8	54.2	64.0	74.5	83.6	90.8	94.1	96.0	95.4
85°	20.3	24.2	30.1	37.9	45.1	54.2	60.8	65.3	67.9	68.6	67.9
87.5°	10.5	11.1	14.4	18.3	22.2	28.1	30.7	34.6	35.9	35.9	35.9
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: P188308

CATALOG NUMBER: 22SR-LD2-19-C-UNV-L835-CD1-MR-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	175.1	175.1	175.1	175.1	175.1	175.1	175.1	175.1
2.5°	176.4	176.4	177.7	177.7	178.4	177.7	178.4	178.4
5°	194.0	196.7	199.3	200.6	202.5	203.2	203.8	203.8
7.5°	215.6	219.5	222.8	224.7	228.0	229.3	230.0	230.0
10°	236.5	241.7	246.3	249.6	252.8	254.8	256.1	256.8
12.5°	256.1	262.6	267.9	272.4	275.7	278.3	279.6	280.3
15°	273.1	280.9	287.5	292.0	296.6	299.2	301.2	301.8
17.5°	288.1	296.0	303.1	309.0	313.6	316.9	318.8	320.1
20°	299.2	308.4	316.2	322.1	328.0	331.2	333.2	334.5
22.5°	307.7	317.5	326.0	332.5	338.4	342.3	344.3	345.6
25°	313.6	324.1	333.2	339.7	346.3	350.2	352.8	353.5
27.5°	316.9	328.0	337.1	344.3	350.8	354.8	357.4	358.0
30°	317.5	328.0	337.8	345.0	351.5	355.4	358.0	358.7
32.5°	315.6	326.0	335.2	343.0	348.9	352.8	355.4	356.1
35°	311.0	321.4	329.9	337.8	343.7	347.6	350.2	350.2
37.5°	303.8	314.3	322.7	329.9	335.8	339.1	341.7	342.3
40°	296.0	305.1	313.6	320.1	325.4	328.6	331.2	331.9
42.5°	286.8	295.3	302.5	308.4	313.6	317.5	318.8	319.5
45°	277.0	284.9	291.4	296.6	301.2	303.1	305.8	306.4
47.5°	267.2	274.4	279.6	284.2	288.1	290.7	292.0	292.0
50°	257.4	263.3	268.5	272.4	275.1	276.4	277.7	279.0
52.5°	248.3	252.8	257.4	260.0	262.0	263.9	264.6	265.3
55°	239.1	243.7	247.0	248.9	250.2	252.2	252.2	252.8
57.5°	230.0	233.2	235.9	237.2	238.5	239.1	239.8	240.4
60°	220.8	223.4	224.7	226.1	226.7	228.0	228.0	228.7
62.5°	211.7	213.0	214.3	214.9	215.6	216.9	217.6	217.6
65°	201.2	202.5	203.2	203.8	204.5	205.8	206.5	206.5
67.5°	190.8	191.4	191.4	192.7	193.4	194.7	194.7	195.3
70°	179.7	179.7	180.3	181.0	181.6	182.3	183.6	184.2
72.5°	167.9	167.3	167.9	168.6	169.9	170.5	171.2	171.8
75°	153.5	153.5	154.2	153.5	153.5	154.2	154.2	154.8
77.5°	137.9	135.9	133.9	133.9	133.9	133.3	133.3	133.9
80°	116.9	114.3	113.0	113.0	112.4	112.4	113.0	113.0
82.5°	93.4	92.8	90.2	90.2	90.8	89.5	90.2	90.8
85°	66.6	66.0	64.7	64.7	64.7	63.4	64.0	64.7
87.5°	35.3	34.6	33.3	34.0	34.0	32.7	34.0	33.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)