

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: P188304

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188304  
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-LD2-20-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**

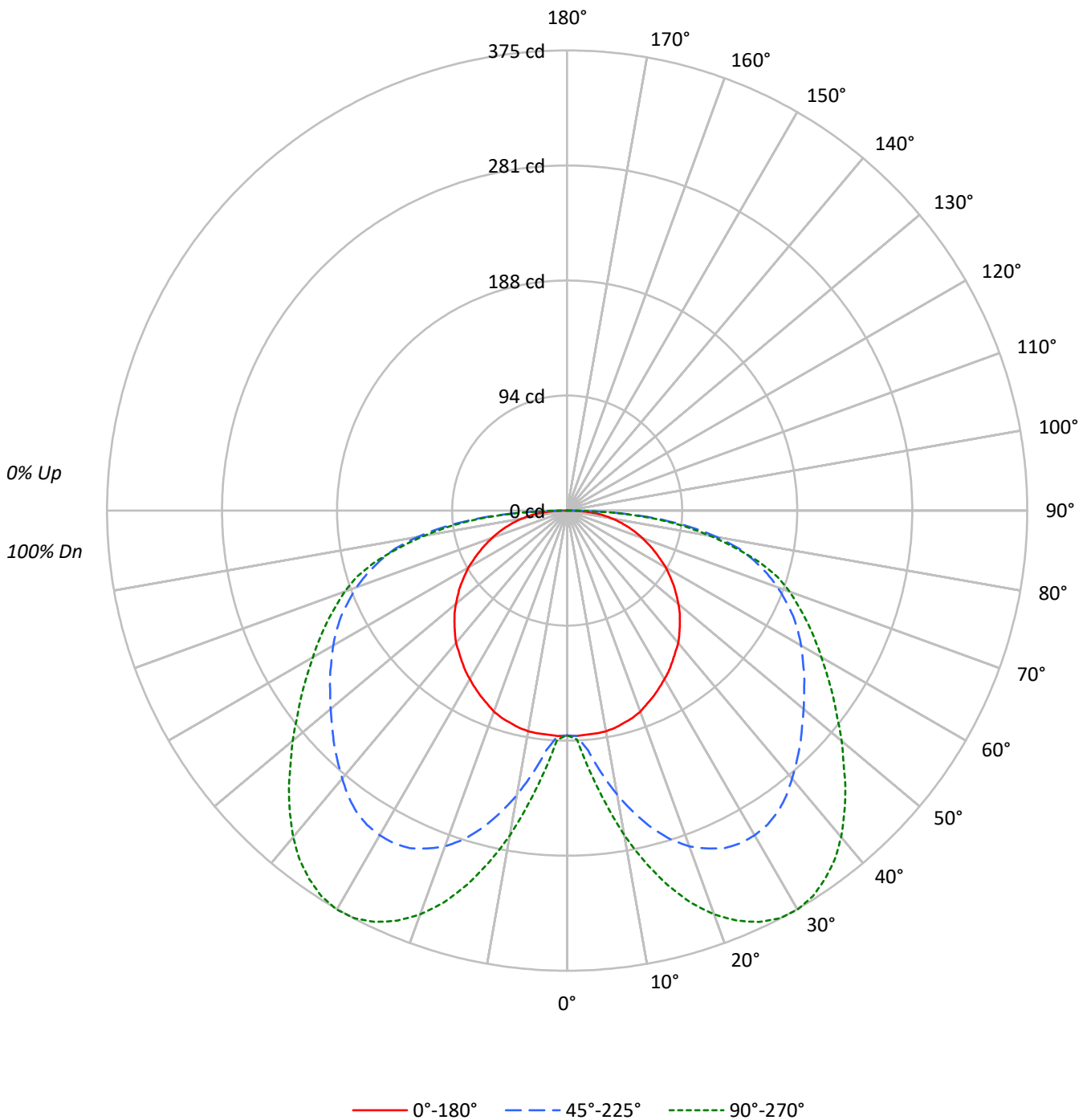
Lumens per Lamp: N/A  
Luminaire Lumens: 1169.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 2.21 / 2.01  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.4  
Input Voltage (V): NR  
Input Current (Ain): 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°	537	537	537
5°	539	577	627
10°	543	700	799
15°	543	813	958
20°	544	908	1092
25°	539	982	1196
30°	537	1034	1270
35°	535	1071	1311
40°	539	1090	1328
45°	538	1113	1329
50°	539	1147	1331
55°	541	1205	1352
60°	545	1290	1402
65°	545	1408	1498
70°	557	1564	1652
75°	581	1788	1834
80°	623	2089	1996
85°	713	2414	2276



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.9	1.7
10°-20°	73.4	6.3
20°-30°	132.9	11.4
30°-40°	176.6	15.1
40°-50°	194.1	16.6
50°-60°	192.5	16.5
60°-70°	177.2	15.2
70°-80°	141.5	12.1
80°-90°	61.1	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°	226.1	19.3
0°-40°	402.7	34.4
0°-60°	789.3	67.5
0°-90°	1169.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	183	183	183	183	183	
5°	183	185	196	209	213	17
15°	179	215	268	303	316	51
25°	167	230	304	352	370	77
35°	150	223	300	349	366	94
45°	130	201	269	308	321	100
55°	106	176	236	260	265	95
65°	79	149	203	213	216	78
75°	51	114	158	161	162	54
85°	21	52	72	68	68	22
90°	0	0	0	0	0	



TEST NUMBER: P188304

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L835-CD1-MR-U

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2
2.5°	183.9	183.9	183.9	183.9	183.2	183.2	183.2	183.2	183.2	183.9	184.6
5°	183.2	183.2	183.2	183.9	183.9	185.3	187.3	190.1	192.8	196.2	200.3
7.5°	183.2	183.2	183.2	183.9	187.3	192.8	199.0	205.1	210.6	216.1	222.2
10°	182.6	182.6	182.6	186.7	194.2	203.1	212.0	220.2	227.7	235.2	242.7
12.5°	181.2	181.2	183.2	190.8	201.7	213.3	222.9	233.8	243.4	252.3	261.2
15°	179.1	179.1	183.2	194.9	208.5	220.8	233.8	246.1	257.8	268.0	278.3
17.5°	177.1	177.1	183.9	198.3	213.3	228.4	242.7	256.4	269.4	281.0	292.0
20°	174.4	174.4	183.9	201.0	217.4	233.8	249.6	263.9	278.3	291.3	302.9
22.5°	170.3	171.6	183.9	202.4	220.2	237.3	253.7	270.1	285.1	298.1	311.1
25°	166.8	168.9	183.2	202.4	220.8	239.3	257.1	273.5	289.2	303.6	316.6
27.5°	162.7	165.5	181.9	201.7	220.8	239.3	257.8	274.9	291.3	305.6	319.3
30°	158.6	162.0	179.8	199.7	219.5	238.6	256.4	274.2	290.6	305.6	319.3
32.5°	154.5	158.6	176.4	196.9	216.7	235.9	254.4	272.1	288.5	303.6	317.3
35°	149.7	154.5	173.0	193.5	213.3	232.5	250.3	268.0	284.4	299.5	312.5
37.5°	145.0	150.4	168.9	189.4	208.5	227.7	245.5	262.6	279.0	293.3	306.3
40°	140.9	145.6	164.1	184.6	203.8	222.2	240.0	256.4	272.1	285.1	298.1
42.5°	135.4	141.5	159.3	179.8	198.3	216.1	233.8	249.6	264.6	276.9	289.2
45°	129.9	136.7	154.5	173.7	192.8	209.9	227.0	242.7	256.4	268.7	279.7
47.5°	124.4	131.3	149.1	168.2	186.7	203.8	220.2	235.2	248.2	259.8	270.8
50°	118.3	126.5	143.6	162.0	180.5	197.6	213.3	227.7	240.7	251.6	261.9
52.5°	112.1	121.0	138.1	156.6	173.7	190.8	206.5	220.2	232.5	243.4	252.3
55°	106.0	114.9	132.6	150.4	167.5	185.3	200.3	214.0	226.3	235.9	244.1
57.5°	99.1	109.4	126.5	144.3	161.4	177.8	193.5	207.2	218.1	227.7	235.2
60°	93.0	103.2	120.3	137.4	155.2	171.6	186.7	199.7	210.6	220.2	227.0
62.5°	85.5	97.1	113.5	131.3	148.4	164.1	179.8	192.8	203.8	212.0	217.4
65°	78.6	90.3	106.7	123.8	140.9	157.3	172.3	185.3	194.9	203.1	207.9
67.5°	71.8	83.4	99.8	116.9	133.3	149.1	164.1	176.4	186.0	192.8	196.9
70°	65.0	76.6	92.3	108.7	125.1	140.9	155.2	166.8	175.7	182.6	186.0
72.5°	58.1	69.7	84.8	100.5	116.2	131.3	145.6	156.6	164.8	170.9	174.4
75°	51.3	62.2	76.6	91.6	106.0	121.0	134.7	145.0	153.2	157.9	160.7
77.5°	44.4	54.7	67.7	81.4	95.7	109.4	121.7	132.0	138.8	143.6	145.0
80°	36.9	46.5	57.4	70.4	82.7	95.7	106.7	115.6	121.7	123.8	123.8
82.5°	30.1	36.9	45.8	56.8	67.0	77.9	87.5	95.0	98.5	100.5	99.8
85°	21.2	25.3	31.5	39.7	47.2	56.8	63.6	68.4	71.1	71.8	71.1
87.5°	10.9	11.6	15.0	19.1	23.2	29.4	32.1	36.2	37.6	37.6	37.6
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: P188304

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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2
2.5°	184.6	184.6	186.0	186.0	186.7	186.0	186.7	186.7
5°	203.1	205.8	208.5	209.9	212.0	212.6	213.3	213.3
7.5°	225.6	229.7	233.2	235.2	238.6	240.0	240.7	240.7
10°	247.5	253.0	257.8	261.2	264.6	266.7	268.0	268.7
12.5°	268.0	274.9	280.3	285.1	288.5	291.3	292.6	293.3
15°	285.8	294.0	300.8	305.6	310.4	313.2	315.2	315.9
17.5°	301.5	309.7	317.3	323.4	328.2	331.6	333.7	335.0
20°	313.2	322.7	330.9	337.1	343.2	346.7	348.7	350.1
22.5°	322.0	332.3	341.2	348.0	354.2	358.3	360.3	361.7
25°	328.2	339.1	348.7	355.5	362.4	366.5	369.2	369.9
27.5°	331.6	343.2	352.8	360.3	367.2	371.3	374.0	374.7
30°	332.3	343.2	353.5	361.0	367.9	372.0	374.7	375.4
32.5°	330.2	341.2	350.8	359.0	365.1	369.2	372.0	372.6
35°	325.5	336.4	345.3	353.5	359.6	363.8	366.5	366.5
37.5°	317.9	328.9	337.8	345.3	351.4	354.9	357.6	358.3
40°	309.7	319.3	328.2	335.0	340.5	343.9	346.7	347.3
42.5°	300.2	309.1	316.6	322.7	328.2	332.3	333.7	334.4
45°	289.9	298.1	305.0	310.4	315.2	317.3	320.0	320.7
47.5°	279.7	287.2	292.6	297.4	301.5	304.3	305.6	305.6
50°	269.4	275.5	281.0	285.1	287.9	289.2	290.6	292.0
52.5°	259.8	264.6	269.4	272.1	274.2	276.2	276.9	277.6
55°	250.3	255.0	258.5	260.5	261.9	263.9	263.9	264.6
57.5°	240.7	244.1	246.8	248.2	249.6	250.3	250.9	251.6
60°	231.1	233.8	235.2	236.6	237.3	238.6	238.6	239.3
62.5°	221.5	222.9	224.3	225.0	225.6	227.0	227.7	227.7
65°	210.6	212.0	212.6	213.3	214.0	215.4	216.1	216.1
67.5°	199.7	200.3	200.3	201.7	202.4	203.8	203.8	204.4
70°	188.0	188.0	188.7	189.4	190.1	190.8	192.1	192.8
72.5°	175.7	175.0	175.7	176.4	177.8	178.5	179.1	179.8
75°	160.7	160.7	161.4	160.7	160.7	161.4	161.4	162.0
77.5°	144.3	142.2	140.2	140.2	140.2	139.5	139.5	140.2
80°	122.4	119.7	118.3	118.3	117.6	117.6	118.3	118.3
82.5°	97.8	97.1	94.4	94.4	95.0	93.7	94.4	95.0
85°	69.7	69.1	67.7	67.7	67.7	66.3	67.0	67.7
87.5°	36.9	36.2	34.9	35.6	35.6	34.2	35.6	34.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)