

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: P188303

Luminaire Tested: **22SR-LD2-20-C-UNV-L830-CD1-MR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188303
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-L830-CD1-MR-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1134.0 lumens
Efficiency: N/A
Efficacy: 73.6 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

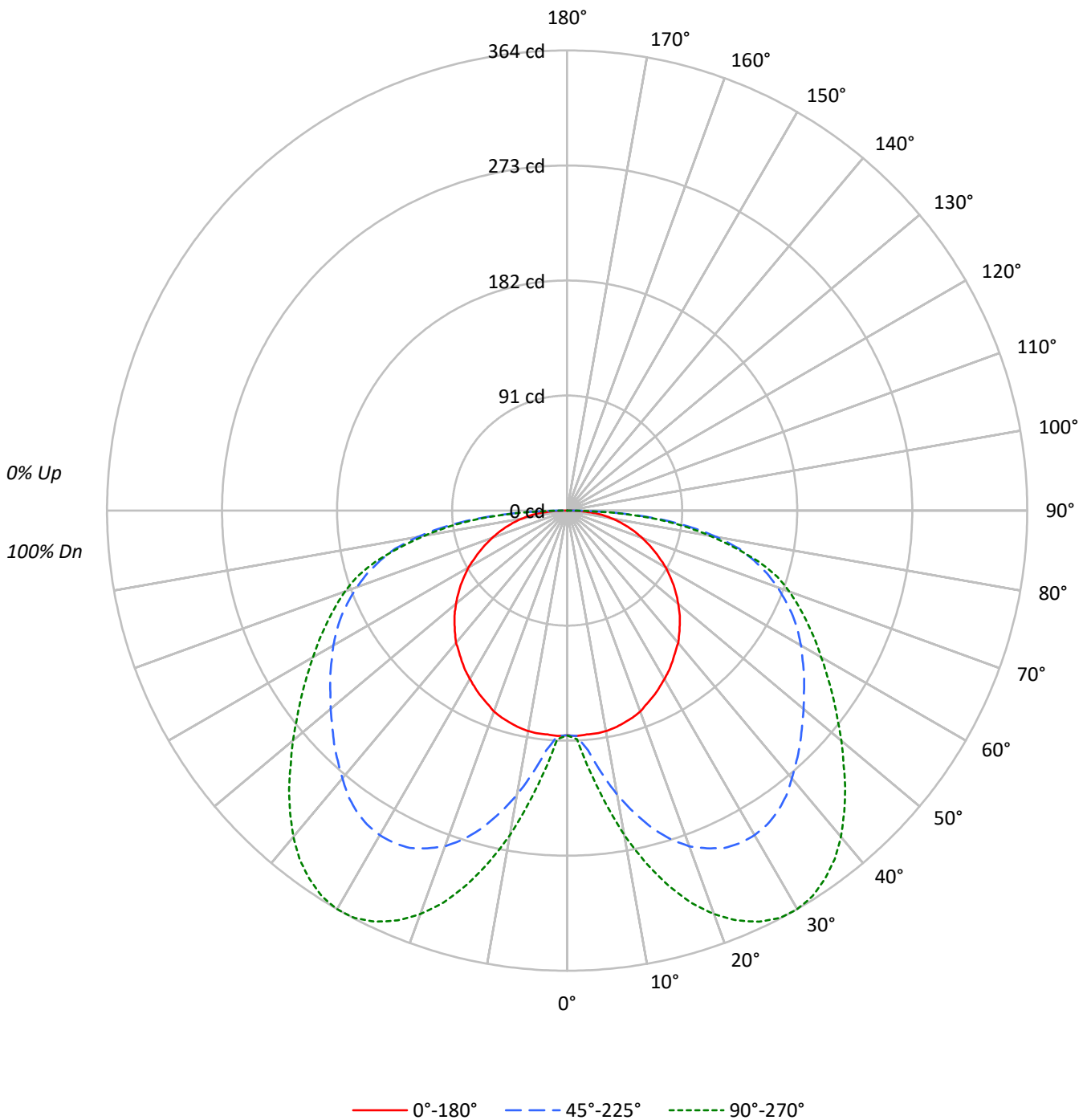
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	521	521	521
5°	523	560	609
10°	527	679	776
15°	527	789	929
20°	527	881	1059
25°	523	952	1160
30°	521	1003	1232
35°	520	1039	1272
40°	522	1058	1289
45°	522	1080	1289
50°	523	1113	1291
55°	525	1169	1311
60°	529	1252	1360
65°	529	1366	1453
70°	540	1517	1602
75°	563	1734	1780
80°	604	2027	1935
85°	693	2340	2209



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	1.7
10°-20°	71.2	6.3
20°-30°	128.9	11.4
30°-40°	171.3	15.1
40°-50°	188.3	16.6
50°-60°	186.7	16.5
60°-70°	171.9	15.2
70°-80°	137.2	12.1
80°-90°	59.3	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°	219.4	19.3
0°-40°	390.6	34.4
0°-60°	765.6	67.5
0°-90°	1134.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1134.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	178	178	178	178	178	
5°	178	179	190	203	207	17
15°	174	208	260	294	306	49
25°	162	223	294	342	359	75
35°	145	216	290	339	356	91
45°	126	195	261	298	311	97
55°	103	171	229	252	257	92
65°	76	145	197	207	210	76
75°	50	110	153	156	157	52
85°	21	50	70	66	66	21
90°	0	0	0	0	0	



TEST NUMBER: P188303

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L830-CD1-MR-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8
2.5°	178.4	178.4	178.4	178.4	177.8	177.8	177.8	177.8	177.8	178.4	179.1
5°	177.8	177.8	177.8	178.4	178.4	179.7	181.7	184.4	187.0	190.4	194.3
7.5°	177.8	177.8	177.8	178.4	181.7	187.0	193.0	199.0	204.3	209.6	215.6
10°	177.1	177.1	177.1	181.1	188.4	197.0	205.6	213.6	220.9	228.2	235.5
12.5°	175.8	175.8	177.8	185.1	195.7	206.9	216.2	226.8	236.1	244.7	253.4
15°	173.8	173.8	177.8	189.0	202.3	214.2	226.8	238.8	250.1	260.0	270.0
17.5°	171.8	171.8	178.4	192.3	206.9	221.5	235.5	248.7	261.3	272.6	283.2
20°	169.1	169.1	178.4	195.0	210.9	226.8	242.1	256.0	270.0	282.6	293.8
22.5°	165.2	166.5	178.4	196.3	213.6	230.2	246.1	262.0	276.6	289.2	301.8
25°	161.8	163.8	177.8	196.3	214.2	232.1	249.4	265.3	280.6	294.5	307.1
27.5°	157.9	160.5	176.4	195.7	214.2	232.1	250.1	266.6	282.6	296.5	309.7
30°	153.9	157.2	174.4	193.7	212.9	231.5	248.7	266.0	281.9	296.5	309.7
32.5°	149.9	153.9	171.1	191.0	210.3	228.8	246.7	264.0	279.9	294.5	307.8
35°	145.3	149.9	167.8	187.7	206.9	225.5	242.8	260.0	275.9	290.5	303.1
37.5°	140.6	145.9	163.8	183.7	202.3	220.9	238.1	254.7	270.6	284.5	297.1
40°	136.6	141.3	159.2	179.1	197.7	215.6	232.8	248.7	264.0	276.6	289.2
42.5°	131.3	137.3	154.5	174.4	192.3	209.6	226.8	242.1	256.7	268.6	280.6
45°	126.0	132.7	149.9	168.5	187.0	203.6	220.2	235.5	248.7	260.7	271.3
47.5°	120.7	127.3	144.6	163.2	181.1	197.7	213.6	228.2	240.8	252.0	262.7
50°	114.7	122.7	139.3	157.2	175.1	191.7	206.9	220.9	233.5	244.1	254.0
52.5°	108.8	117.4	134.0	151.9	168.5	185.1	200.3	213.6	225.5	236.1	244.7
55°	102.8	111.4	128.7	145.9	162.5	179.7	194.3	207.6	219.5	228.8	236.8
57.5°	96.2	106.1	122.7	140.0	156.5	172.5	187.7	201.0	211.6	220.9	228.2
60°	90.2	100.2	116.7	133.3	150.6	166.5	181.1	193.7	204.3	213.6	220.2
62.5°	82.9	94.2	110.1	127.3	143.9	159.2	174.4	187.0	197.7	205.6	210.9
65°	76.3	87.6	103.5	120.1	136.6	152.6	167.1	179.7	189.0	197.0	201.6
67.5°	69.6	80.9	96.8	113.4	129.3	144.6	159.2	171.1	180.4	187.0	191.0
70°	63.0	74.3	89.5	105.5	121.4	136.6	150.6	161.8	170.5	177.1	180.4
72.5°	56.4	67.7	82.2	97.5	112.8	127.3	141.3	151.9	159.8	165.8	169.1
75°	49.7	60.4	74.3	88.9	102.8	117.4	130.7	140.6	148.6	153.2	155.9
77.5°	43.1	53.1	65.7	78.9	92.9	106.1	118.1	128.0	134.6	139.3	140.6
80°	35.8	45.1	55.7	68.3	80.3	92.9	103.5	112.1	118.1	120.1	120.1
82.5°	29.2	35.8	44.4	55.1	65.0	75.6	84.9	92.2	95.5	97.5	96.8
85°	20.6	24.5	30.5	38.5	45.8	55.1	61.7	66.3	69.0	69.6	69.0
87.5°	10.6	11.3	14.6	18.6	22.6	28.5	31.2	35.2	36.5	36.5	36.5
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: P188303

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L830-CD1-MR-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	177.8	177.8	177.8	177.8	177.8	177.8	177.8	177.8
2.5°	179.1	179.1	180.4	180.4	181.1	180.4	181.1	181.1
5°	197.0	199.6	202.3	203.6	205.6	206.3	206.9	206.9
7.5°	218.9	222.9	226.2	228.2	231.5	232.8	233.5	233.5
10°	240.1	245.4	250.1	253.4	256.7	258.7	260.0	260.7
12.5°	260.0	266.6	271.9	276.6	279.9	282.6	283.9	284.5
15°	277.2	285.2	291.8	296.5	301.1	303.8	305.8	306.4
17.5°	292.5	300.5	307.8	313.7	318.4	321.7	323.7	325.0
20°	303.8	313.1	321.0	327.0	333.0	336.3	338.3	339.6
22.5°	312.4	322.4	331.0	337.6	343.6	347.6	349.5	350.9
25°	318.4	329.0	338.3	344.9	351.5	355.5	358.2	358.8
27.5°	321.7	333.0	342.2	349.5	356.2	360.2	362.8	363.5
30°	322.4	333.0	342.9	350.2	356.8	360.8	363.5	364.1
32.5°	320.4	331.0	340.3	348.2	354.2	358.2	360.8	361.5
35°	315.7	326.3	335.0	342.9	348.9	352.9	355.5	355.5
37.5°	308.4	319.0	327.7	335.0	340.9	344.2	346.9	347.6
40°	300.5	309.7	318.4	325.0	330.3	333.6	336.3	336.9
42.5°	291.2	299.8	307.1	313.1	318.4	322.4	323.7	324.3
45°	281.2	289.2	295.8	301.1	305.8	307.8	310.4	311.1
47.5°	271.3	278.6	283.9	288.5	292.5	295.2	296.5	296.5
50°	261.3	267.3	272.6	276.6	279.2	280.6	281.9	283.2
52.5°	252.0	256.7	261.3	264.0	266.0	268.0	268.6	269.3
55°	242.8	247.4	250.7	252.7	254.0	256.0	256.0	256.7
57.5°	233.5	236.8	239.4	240.8	242.1	242.8	243.4	244.1
60°	224.2	226.8	228.2	229.5	230.2	231.5	231.5	232.1
62.5°	214.9	216.2	217.6	218.2	218.9	220.2	220.9	220.9
65°	204.3	205.6	206.3	206.9	207.6	208.9	209.6	209.6
67.5°	193.7	194.3	194.3	195.7	196.3	197.7	197.7	198.3
70°	182.4	182.4	183.1	183.7	184.4	185.1	186.4	187.0
72.5°	170.5	169.8	170.5	171.1	172.5	173.1	173.8	174.4
75°	155.9	155.9	156.5	155.9	155.9	156.5	156.5	157.2
77.5°	140.0	138.0	136.0	136.0	136.0	135.3	135.3	136.0
80°	118.7	116.1	114.7	114.7	114.1	114.1	114.7	114.7
82.5°	94.8	94.2	91.5	91.5	92.2	90.9	91.5	92.2
85°	67.7	67.0	65.7	65.7	65.7	64.3	65.0	65.7
87.5°	35.8	35.2	33.8	34.5	34.5	33.2	34.5	33.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)