

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: P188309

Luminaire Tested: **22SR-LD2-19-C-UNV-L830-CD1-MR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188309
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-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: 1083.0 lumens
Efficiency: N/A
Efficacy: 73.7 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

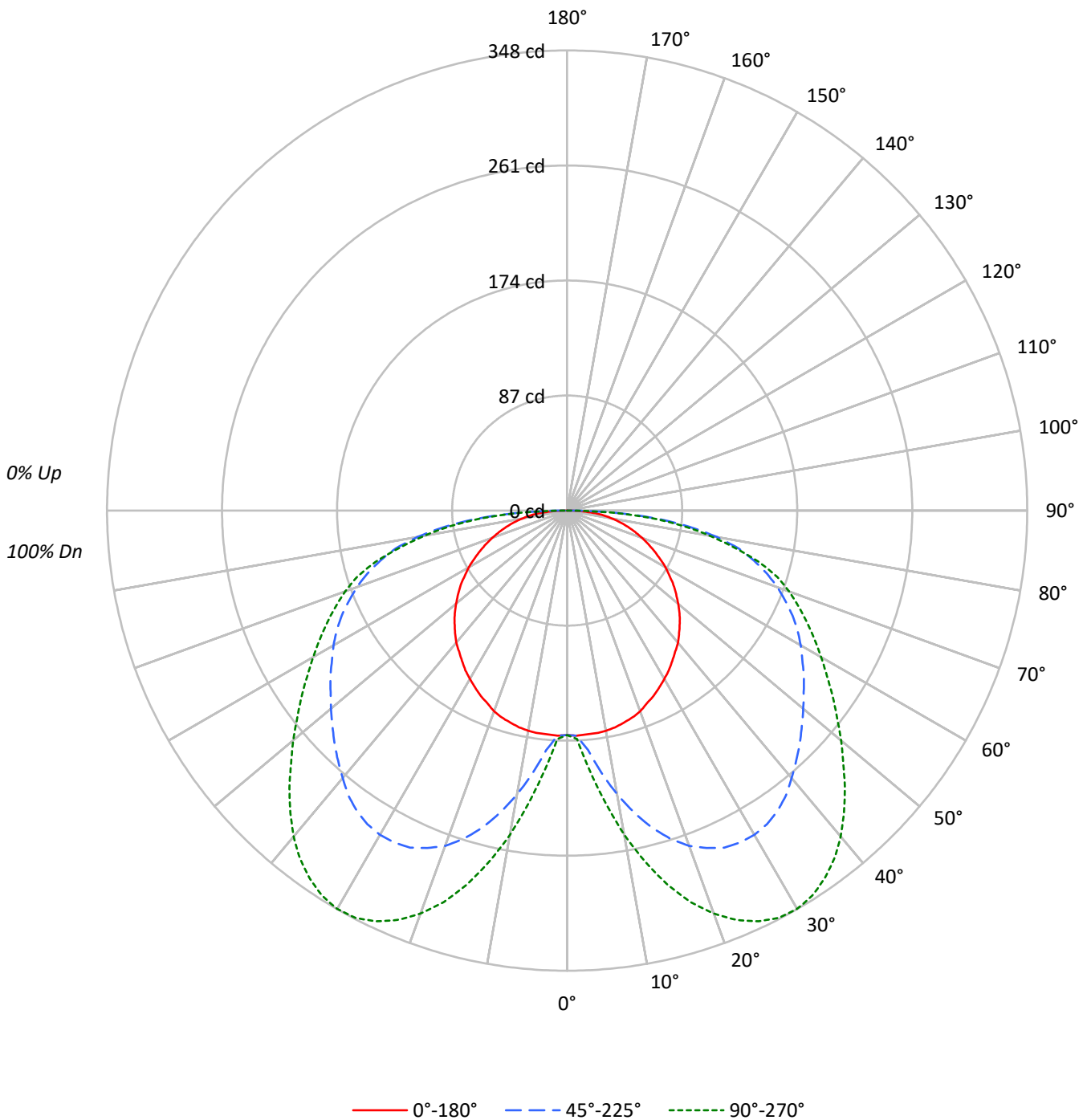
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	498	498	498
5°	499	535	581
10°	503	648	741
15°	504	753	888
20°	504	841	1011
25°	500	909	1108
30°	497	958	1177
35°	496	992	1214
40°	499	1010	1231
45°	499	1031	1231
50°	500	1063	1233
55°	502	1116	1252
60°	505	1195	1299
65°	505	1304	1388
70°	516	1449	1530
75°	538	1656	1699
80°	577	1935	1849
85°	659	2236	2108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.4	1.7
10°-20°	68.0	6.3
20°-30°	123.1	11.4
30°-40°	163.6	15.1
40°-50°	179.8	16.6
50°-60°	178.3	16.5
60°-70°	164.2	15.2
70°-80°	131.1	12.1
80°-90°	56.6	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°	209.5	19.3
0°-40°	373.1	34.4
0°-60°	731.2	67.5
0°-90°	1083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	170	170	170	170	170	
5°	170	171	182	194	198	16
15°	166	199	248	281	293	47
25°	155	213	281	326	343	71
35°	139	206	277	324	340	87
45°	120	187	249	285	297	93
55°	98	163	218	240	245	88
65°	73	138	188	197	200	72
75°	48	105	146	149	150	50
85°	20	48	66	63	63	20
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°	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8
2.5°	170.4	170.4	170.4	170.4	169.8	169.8	169.8	169.8	169.8	170.4	171.0
5°	169.8	169.8	169.8	170.4	170.4	171.7	173.6	176.1	178.6	181.8	185.6
7.5°	169.8	169.8	169.8	170.4	173.6	178.6	184.3	190.0	195.1	200.2	205.9
10°	169.1	169.1	169.1	172.9	179.9	188.1	196.4	204.0	210.9	217.9	224.9
12.5°	167.9	167.9	169.8	176.7	186.9	197.6	206.5	216.6	225.5	233.7	242.0
15°	166.0	166.0	169.8	180.5	193.2	204.6	216.6	228.0	238.8	248.3	257.8
17.5°	164.1	164.1	170.4	183.7	197.6	211.6	224.9	237.5	249.6	260.3	270.5
20°	161.5	161.5	170.4	186.2	201.4	216.6	231.2	244.5	257.8	269.8	280.6
22.5°	157.7	159.0	170.4	187.5	204.0	219.8	235.0	250.2	264.1	276.2	288.2
25°	154.6	156.5	169.8	187.5	204.6	221.7	238.2	253.4	267.9	281.2	293.3
27.5°	150.8	153.3	168.5	186.9	204.6	221.7	238.8	254.6	269.8	283.1	295.8
30°	147.0	150.1	166.6	185.0	203.3	221.1	237.5	254.0	269.2	283.1	295.8
32.5°	143.2	147.0	163.4	182.4	200.8	218.5	235.6	252.1	267.3	281.2	293.9
35°	138.7	143.2	160.3	179.3	197.6	215.4	231.8	248.3	263.5	277.4	289.5
37.5°	134.3	139.4	156.5	175.5	193.2	210.9	227.4	243.2	258.4	271.7	283.8
40°	130.5	134.9	152.0	171.0	188.8	205.9	222.3	237.5	252.1	264.1	276.2
42.5°	125.4	131.1	147.6	166.6	183.7	200.2	216.6	231.2	245.1	256.5	267.9
45°	120.4	126.7	143.2	160.9	178.6	194.5	210.3	224.9	237.5	248.9	259.1
47.5°	115.3	121.6	138.1	155.8	172.9	188.8	204.0	217.9	229.9	240.7	250.8
50°	109.6	117.2	133.0	150.1	167.2	183.1	197.6	210.9	223.0	233.1	242.6
52.5°	103.9	112.1	128.0	145.1	160.9	176.7	191.3	204.0	215.4	225.5	233.7
55°	98.2	106.4	122.9	139.4	155.2	171.7	185.6	198.3	209.7	218.5	226.1
57.5°	91.8	101.4	117.2	133.7	149.5	164.7	179.3	191.9	202.1	210.9	217.9
60°	86.1	95.7	111.5	127.3	143.8	159.0	172.9	185.0	195.1	204.0	210.3
62.5°	79.2	89.9	105.2	121.6	137.5	152.0	166.6	178.6	188.8	196.4	201.4
65°	72.8	83.6	98.8	114.7	130.5	145.7	159.6	171.7	180.5	188.1	192.6
67.5°	66.5	77.3	92.5	108.3	123.5	138.1	152.0	163.4	172.3	178.6	182.4
70°	60.2	70.9	85.5	100.7	115.9	130.5	143.8	154.6	162.8	169.1	172.3
72.5°	53.8	64.6	78.5	93.1	107.7	121.6	134.9	145.1	152.7	158.4	161.5
75°	47.5	57.6	70.9	84.9	98.2	112.1	124.8	134.3	141.9	146.3	148.9
77.5°	41.2	50.7	62.7	75.4	88.7	101.4	112.8	122.3	128.6	133.0	134.3
80°	34.2	43.1	53.2	65.2	76.6	88.7	98.8	107.1	112.8	114.7	114.7
82.5°	27.9	34.2	42.4	52.6	62.1	72.2	81.1	88.0	91.2	93.1	92.5
85°	19.6	23.4	29.1	36.7	43.7	52.6	58.9	63.3	65.9	66.5	65.9
87.5°	10.1	10.8	13.9	17.7	21.5	27.2	29.8	33.6	34.8	34.8	34.8
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°	169.8	169.8	169.8	169.8	169.8	169.8	169.8	169.8
2.5°	171.0	171.0	172.3	172.3	172.9	172.3	172.9	172.9
5°	188.1	190.7	193.2	194.5	196.4	197.0	197.6	197.6
7.5°	209.0	212.8	216.0	217.9	221.1	222.3	223.0	223.0
10°	229.3	234.4	238.8	242.0	245.1	247.0	248.3	248.9
12.5°	248.3	254.6	259.7	264.1	267.3	269.8	271.1	271.7
15°	264.8	272.4	278.7	283.1	287.6	290.1	292.0	292.7
17.5°	279.3	287.0	293.9	299.6	304.1	307.2	309.1	310.4
20°	290.1	299.0	306.6	312.3	318.0	321.2	323.1	324.3
22.5°	298.4	307.9	316.1	322.4	328.1	331.9	333.8	335.1
25°	304.1	314.2	323.1	329.4	335.7	339.5	342.1	342.7
27.5°	307.2	318.0	326.9	333.8	340.2	344.0	346.5	347.1
30°	307.9	318.0	327.5	334.5	340.8	344.6	347.1	347.8
32.5°	306.0	316.1	325.0	332.6	338.3	342.1	344.6	345.2
35°	301.5	311.7	319.9	327.5	333.2	337.0	339.5	339.5
37.5°	294.6	304.7	312.9	319.9	325.6	328.8	331.3	331.9
40°	287.0	295.8	304.1	310.4	315.5	318.6	321.2	321.8
42.5°	278.1	286.3	293.3	299.0	304.1	307.9	309.1	309.8
45°	268.6	276.2	282.5	287.6	292.0	293.9	296.5	297.1
47.5°	259.1	266.0	271.1	275.5	279.3	281.9	283.1	283.1
50°	249.6	255.3	260.3	264.1	266.7	267.9	269.2	270.5
52.5°	240.7	245.1	249.6	252.1	254.0	255.9	256.5	257.2
55°	231.8	236.3	239.4	241.3	242.6	244.5	244.5	245.1
57.5°	223.0	226.1	228.7	229.9	231.2	231.8	232.5	233.1
60°	214.1	216.6	217.9	219.2	219.8	221.1	221.1	221.7
62.5°	205.2	206.5	207.8	208.4	209.0	210.3	210.9	210.9
65°	195.1	196.4	197.0	197.6	198.3	199.5	200.2	200.2
67.5°	185.0	185.6	185.6	186.9	187.5	188.8	188.8	189.4
70°	174.2	174.2	174.8	175.5	176.1	176.7	178.0	178.6
72.5°	162.8	162.2	162.8	163.4	164.7	165.3	166.0	166.6
75°	148.9	148.9	149.5	148.9	148.9	149.5	149.5	150.1
77.5°	133.7	131.8	129.9	129.9	129.9	129.2	129.2	129.9
80°	113.4	110.9	109.6	109.6	109.0	109.0	109.6	109.6
82.5°	90.6	89.9	87.4	87.4	88.0	86.8	87.4	88.0
85°	64.6	64.0	62.7	62.7	62.7	61.4	62.1	62.7
87.5°	34.2	33.6	32.3	32.9	32.9	31.7	32.9	32.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)