

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: P188334

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24793)
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-PG-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1094.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 2.2 / 2
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

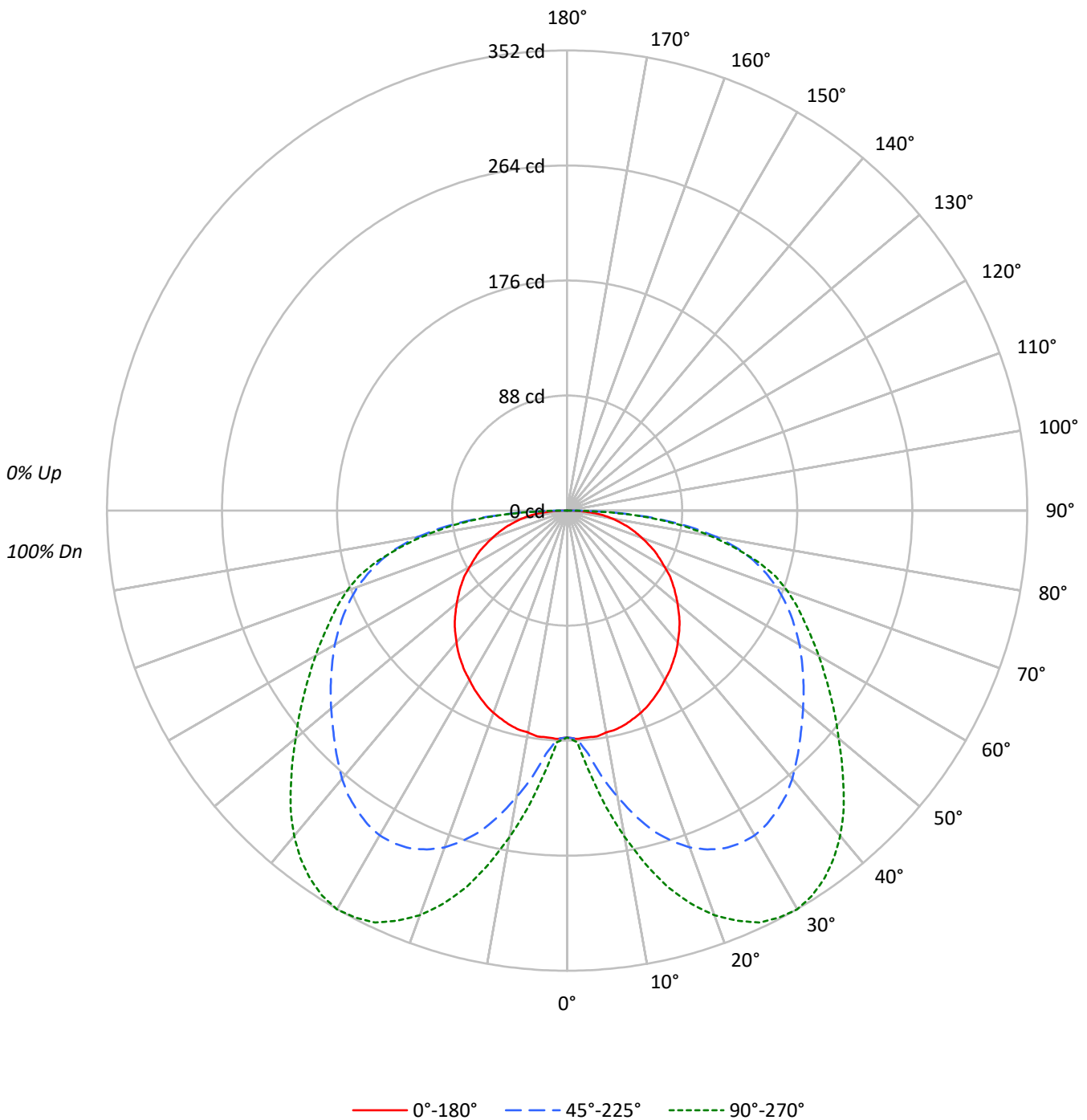
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	80	73	68	76	71	66	73	69	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	51
4	78	64	54	47	75	63	54	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	56	46	39	53	45	39	51	44	38	49	43	38	35
6	65	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	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	31	25	37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	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°	508	508	508
5°	512	549	594
10°	513	661	754
15°	515	769	905
20°	514	855	1027
25°	510	921	1124
30°	506	971	1192
35°	505	1002	1228
40°	504	1025	1243
45°	504	1042	1239
50°	502	1074	1236
55°	505	1126	1256
60°	505	1202	1303
65°	514	1308	1387
70°	521	1460	1535
75°	545	1671	1706
80°	587	1956	1870
85°	659	2279	2152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.9	1.7
10°-20°	69.2	6.3
20°-30°	124.9	11.4
30°-40°	165.5	15.1
40°-50°	181.6	16.6
50°-60°	179.6	16.4
60°-70°	164.9	15.1
70°-80°	131.9	12.1
80°-90°	57.5	5.3
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°	213.0	19.5
0°-40°	378.5	34.6
0°-60°	739.7	67.6
0°-90°	1094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	174	174	174	174	174	
5°	174	175	187	198	202	17
15°	170	203	253	285	298	48
25°	158	217	285	331	348	73
35°	141	209	280	327	343	88
45°	122	189	252	288	299	94
55°	99	165	220	242	246	88
65°	74	139	189	198	200	73
75°	48	106	148	150	151	51
85°	20	48	68	64	64	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°	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5
2.5°	174.8	174.8	174.2	174.8	174.2	174.8	174.2	174.2	174.8	174.8	175.4
5°	174.2	174.2	174.2	174.2	174.8	176.1	178.0	180.5	183.7	186.8	190.0
7.5°	174.2	174.2	174.2	174.8	178.0	183.0	188.7	194.4	200.8	205.8	210.3
10°	172.3	172.9	172.9	176.7	183.7	191.9	200.8	207.7	215.3	222.3	228.7
12.5°	171.6	172.3	173.5	180.5	190.6	202.0	211.5	221.1	230.6	238.8	246.4
15°	169.7	169.7	174.2	184.3	197.0	209.0	221.1	232.5	243.2	253.4	262.2
17.5°	167.2	167.2	174.2	187.5	201.4	215.3	228.7	241.3	254.0	264.8	274.9
20°	164.7	165.3	174.2	190.0	205.2	221.1	235.0	248.9	262.2	274.3	285.7
22.5°	161.5	162.1	174.2	191.3	207.7	224.2	239.4	254.0	267.9	280.6	292.6
25°	157.7	159.6	172.9	190.6	208.4	225.5	241.3	257.2	272.4	285.0	297.7
27.5°	153.9	156.4	171.0	189.4	207.7	225.5	242.0	258.4	273.0	286.9	299.6
30°	149.5	152.6	169.1	188.1	206.5	224.2	241.3	257.8	273.0	286.9	299.6
32.5°	145.7	149.5	166.6	185.6	203.9	221.7	238.8	255.3	270.5	284.4	297.1
35°	141.2	145.0	162.8	181.8	200.1	217.9	235.0	250.8	266.7	280.0	292.6
37.5°	136.8	141.2	159.0	178.0	196.3	214.1	230.6	246.4	261.0	274.9	286.9
40°	131.7	136.8	154.5	173.5	191.3	208.4	224.9	240.1	254.6	267.9	279.3
42.5°	126.7	132.4	149.5	168.5	186.2	203.3	219.2	233.7	247.7	259.7	270.5
45°	121.6	127.9	145.0	162.8	180.5	197.0	212.2	226.8	239.4	251.5	261.6
47.5°	115.9	122.9	140.0	157.7	174.8	190.6	205.8	219.8	232.5	243.2	252.7
50°	110.2	117.8	134.9	152.0	168.5	184.9	199.5	212.8	224.9	235.6	244.5
52.5°	104.5	112.7	129.2	146.3	162.8	178.6	193.2	205.8	217.9	228.0	235.6
55°	98.8	107.0	124.1	140.6	157.1	172.3	186.8	199.5	210.9	220.4	227.4
57.5°	93.1	102.0	118.4	134.3	150.7	166.6	180.5	193.2	203.9	212.8	219.8
60°	86.1	96.3	112.1	128.6	144.4	160.2	174.2	186.2	197.0	205.2	211.5
62.5°	79.8	90.6	106.4	122.2	138.1	153.3	167.2	179.2	189.4	197.0	202.7
65°	74.1	84.2	100.1	115.3	131.1	146.9	160.2	172.3	181.8	188.7	193.8
67.5°	67.1	77.9	93.1	108.3	124.1	139.3	152.6	164.0	173.5	179.9	184.3
70°	60.8	71.6	86.1	101.3	116.5	131.1	144.4	155.8	164.0	170.4	173.5
72.5°	54.5	65.2	79.2	93.7	108.3	122.9	135.5	145.7	153.9	159.6	162.1
75°	48.1	58.3	71.6	85.5	98.8	112.7	125.4	135.5	142.5	147.6	149.5
77.5°	41.2	51.3	63.3	76.0	88.7	102.0	113.4	122.9	129.8	133.6	135.5
80°	34.8	43.1	53.8	65.9	77.3	89.3	99.4	107.7	113.4	115.9	115.3
82.5°	27.9	34.2	43.1	53.2	62.7	72.8	81.7	88.7	92.5	93.7	93.7
85°	19.6	23.4	29.8	36.7	44.3	51.9	58.9	64.0	67.1	67.8	67.8
87.5°	10.1	11.4	13.9	17.7	21.5	26.0	31.0	34.2	35.5	36.1	36.1
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°	173.5	173.5	173.5	173.5	173.5	173.5	173.5	173.5
2.5°	175.4	176.1	176.7	176.7	176.7	177.3	177.3	177.3
5°	192.5	195.7	197.6	198.9	200.1	201.4	202.7	202.0
7.5°	214.1	217.9	221.1	223.6	225.5	227.4	228.7	228.7
10°	233.7	238.8	243.2	247.0	250.2	251.5	253.4	253.4
12.5°	253.4	259.1	264.1	269.2	272.4	274.9	276.8	276.8
15°	269.8	276.8	282.5	288.2	292.6	295.8	297.1	298.3
17.5°	283.8	291.4	298.3	304.7	309.1	312.3	314.2	315.4
20°	294.5	303.4	311.0	317.3	323.0	326.2	328.1	329.4
22.5°	302.8	312.3	320.5	327.5	332.5	336.3	338.9	339.5
25°	308.5	318.6	327.5	334.4	340.1	343.9	346.5	347.7
27.5°	311.0	321.1	330.6	338.2	343.9	348.4	350.3	350.9
30°	311.6	321.8	331.3	338.9	345.2	349.0	350.9	352.2
32.5°	309.1	319.2	328.7	336.3	342.0	345.8	348.4	349.0
35°	304.0	314.2	323.0	330.6	336.3	340.1	342.7	343.3
37.5°	297.7	307.2	316.1	323.0	328.7	332.5	334.4	335.1
40°	289.5	299.0	306.6	313.5	318.6	321.8	324.3	324.9
42.5°	280.6	289.5	297.1	302.8	307.2	311.0	312.3	312.9
45°	270.5	278.7	285.7	290.7	294.5	297.7	299.0	299.0
47.5°	261.0	268.6	274.3	278.7	281.2	283.8	284.4	285.0
50°	251.5	257.8	262.9	266.0	268.6	270.5	271.1	271.1
52.5°	242.6	247.7	251.5	254.6	255.9	257.8	258.4	258.4
55°	233.7	237.5	240.7	242.6	243.9	245.1	245.1	245.8
57.5°	224.9	228.0	229.9	231.2	232.5	233.1	233.7	233.7
60°	215.3	217.9	219.2	219.8	220.4	221.7	221.7	222.3
62.5°	205.8	207.7	208.4	209.0	209.6	210.3	210.9	210.9
65°	195.7	197.0	197.6	198.2	198.9	199.5	200.8	200.1
67.5°	185.6	186.2	186.8	187.5	188.1	189.4	190.0	190.0
70°	174.8	174.8	175.4	176.1	176.7	178.0	178.6	179.2
72.5°	163.4	162.8	163.4	164.0	165.3	166.6	167.2	167.2
75°	150.1	150.1	150.1	150.1	150.1	150.7	150.7	150.7
77.5°	134.9	131.7	131.1	130.5	130.5	130.5	130.5	131.1
80°	114.0	111.5	110.8	110.2	110.8	110.8	110.8	110.8
82.5°	92.5	89.9	89.3	88.7	88.7	88.7	88.7	89.3
85°	66.5	65.2	64.6	63.3	64.0	64.0	64.6	64.0
87.5°	36.1	34.2	34.2	33.6	34.8	34.2	34.2	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)