

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: P188331

Luminaire Tested: **22SR-LD2-19-C-UNV-L850-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188331
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-L850-CD1-PG-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1252.0 lumens
Efficiency: N/A
Efficacy: 85.2 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

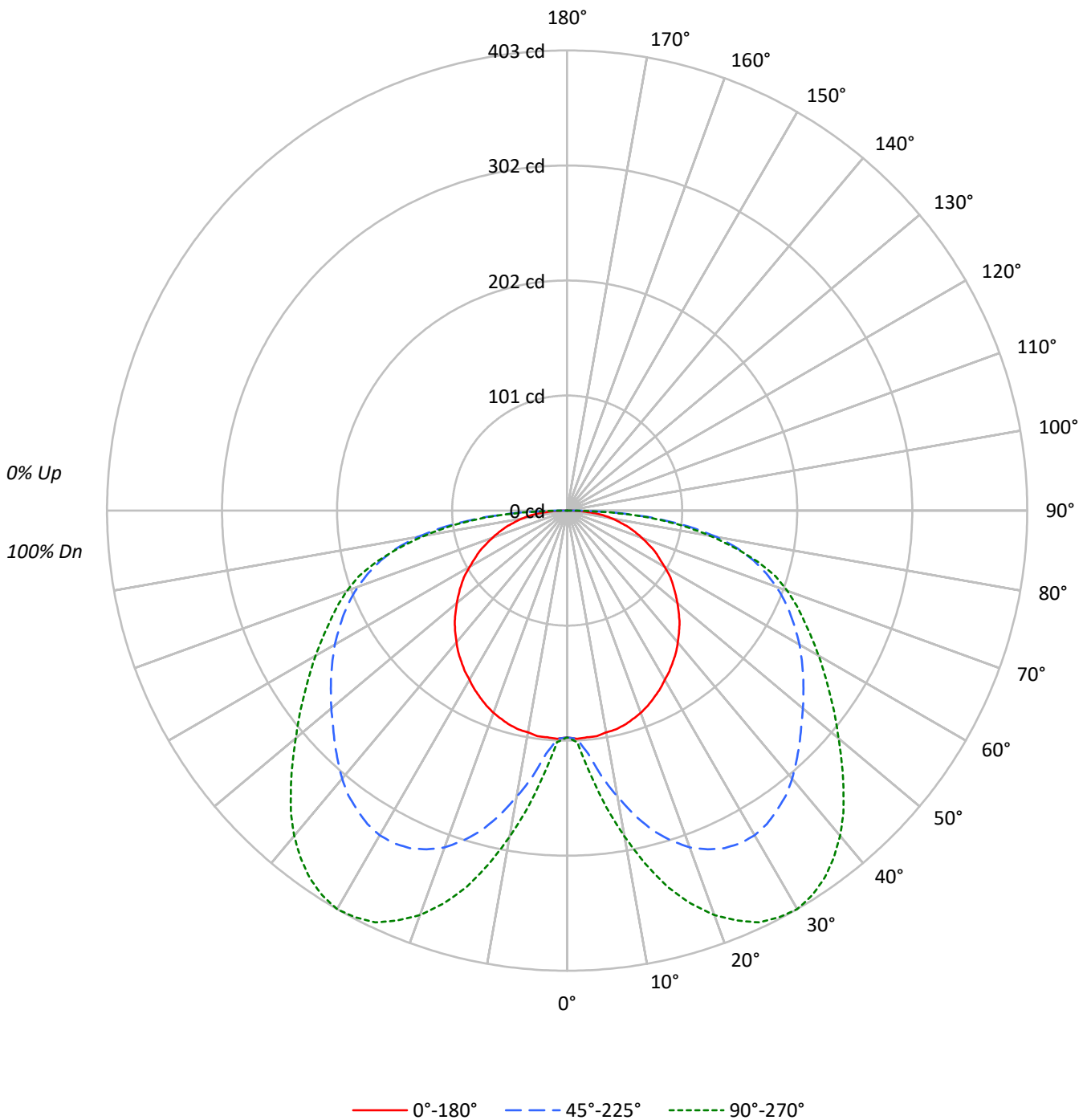
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	582	582	582
5°	586	629	680
10°	587	757	863
15°	589	879	1036
20°	588	979	1175
25°	584	1055	1286
30°	579	1111	1363
35°	578	1146	1405
40°	577	1173	1422
45°	577	1193	1418
50°	575	1229	1414
55°	578	1289	1436
60°	578	1377	1491
65°	588	1498	1588
70°	596	1671	1757
75°	624	1912	1953
80°	673	2237	2141
85°	756	2609	2461



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.6	1.7
10°-20°	79.2	6.3
20°-30°	143.0	11.4
30°-40°	189.4	15.1
40°-50°	207.8	16.6
50°-60°	205.5	16.4
60°-70°	188.8	15.1
70°-80°	151.0	12.1
80°-90°	65.8	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°	243.8	19.5
0°-40°	433.1	34.6
0°-60°	846.5	67.6
0°-90°	1252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1252.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	199	199	199	199	199	
5°	199	201	214	227	231	19
15°	194	232	290	327	341	55
25°	180	248	326	379	398	83
35°	162	239	320	374	393	101
45°	139	216	288	330	342	107
55°	113	188	252	276	281	101
65°	85	159	216	227	229	83
75°	55	121	169	172	172	58
85°	22	55	78	73	73	23
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°	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6
2.5°	200.1	200.1	199.3	200.1	199.3	200.1	199.3	199.3	200.1	200.1	200.8
5°	199.3	199.3	199.3	199.3	200.1	201.5	203.7	206.6	210.2	213.8	217.5
7.5°	199.3	199.3	199.3	200.1	203.7	209.5	216.0	222.5	229.8	235.6	240.7
10°	197.2	197.9	197.9	202.2	210.2	219.6	229.8	237.8	246.5	254.4	261.7
12.5°	196.4	197.2	198.6	206.6	218.2	231.2	242.1	253.0	263.8	273.3	282.0
15°	194.3	194.3	199.3	210.9	225.4	239.2	253.0	266.0	278.3	289.9	300.1
17.5°	191.4	191.4	199.3	214.6	230.5	246.5	261.7	276.2	290.7	303.0	314.6
20°	188.5	189.2	199.3	217.5	234.9	253.0	268.9	284.9	300.1	313.9	326.9
22.5°	184.8	185.6	199.3	218.9	237.8	256.6	274.0	290.7	306.6	321.1	334.9
25°	180.5	182.7	197.9	218.2	238.5	258.0	276.2	294.3	311.7	326.2	340.7
27.5°	176.1	179.0	195.7	216.7	237.8	258.0	276.9	295.7	312.4	328.4	342.9
30°	171.1	174.7	193.5	215.3	236.3	256.6	276.2	295.0	312.4	328.4	342.9
32.5°	166.7	171.1	190.6	212.4	233.4	253.7	273.3	292.1	309.5	325.5	340.0
35°	161.6	166.0	186.3	208.0	229.1	249.4	268.9	287.0	305.2	320.4	334.9
37.5°	156.6	161.6	181.9	203.7	224.7	245.0	263.8	282.0	298.6	314.6	328.4
40°	150.8	156.6	176.9	198.6	218.9	238.5	257.3	274.7	291.4	306.6	319.7
42.5°	145.0	151.5	171.1	192.8	213.1	232.7	250.8	267.5	283.4	297.2	309.5
45°	139.2	146.4	166.0	186.3	206.6	225.4	242.8	259.5	274.0	287.8	299.4
47.5°	132.6	140.6	160.2	180.5	200.1	218.2	235.6	251.5	266.0	278.3	289.2
50°	126.1	134.8	154.4	174.0	192.8	211.7	228.3	243.6	257.3	269.6	279.8
52.5°	119.6	129.0	147.9	167.4	186.3	204.4	221.1	235.6	249.4	260.9	269.6
55°	113.1	122.5	142.1	160.9	179.8	197.2	213.8	228.3	241.4	252.3	260.2
57.5°	106.6	116.7	135.5	153.7	172.5	190.6	206.6	221.1	233.4	243.6	251.5
60°	98.6	110.2	128.3	147.1	165.3	183.4	199.3	213.1	225.4	234.9	242.1
62.5°	91.3	103.7	121.8	139.9	158.0	175.4	191.4	205.1	216.7	225.4	232.0
65°	84.8	96.4	114.5	131.9	150.0	168.2	183.4	197.2	208.0	216.0	221.8
67.5°	76.8	89.2	106.6	124.0	142.1	159.5	174.7	187.7	198.6	205.9	210.9
70°	69.6	81.9	98.6	116.0	133.4	150.0	165.3	178.3	187.7	195.0	198.6
72.5°	62.3	74.7	90.6	107.3	124.0	140.6	155.1	166.7	176.1	182.7	185.6
75°	55.1	66.7	81.9	97.9	113.1	129.0	143.5	155.1	163.1	168.9	171.1
77.5°	47.1	58.7	72.5	87.0	101.5	116.7	129.7	140.6	148.6	152.9	155.1
80°	39.9	49.3	61.6	75.4	88.4	102.2	113.8	123.2	129.7	132.6	131.9
82.5°	31.9	39.1	49.3	60.9	71.8	83.4	93.5	101.5	105.8	107.3	107.3
85°	22.5	26.8	34.1	42.0	50.7	59.4	67.4	73.2	76.8	77.6	77.6
87.5°	11.6	13.0	15.9	20.3	24.6	29.7	35.5	39.1	40.6	41.3	41.3
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°	198.6	198.6	198.6	198.6	198.6	198.6	198.6	198.6
2.5°	200.8	201.5	202.2	202.2	202.2	203.0	203.0	203.0
5°	220.4	224.0	226.2	227.6	229.1	230.5	232.0	231.2
7.5°	245.0	249.4	253.0	255.9	258.0	260.2	261.7	261.7
10°	267.5	273.3	278.3	282.7	286.3	287.8	289.9	289.9
12.5°	289.9	296.5	302.3	308.1	311.7	314.6	316.8	316.8
15°	308.8	316.8	323.3	329.8	334.9	338.5	340.0	341.4
17.5°	324.7	333.4	341.4	348.7	353.7	357.4	359.5	361.0
20°	337.1	347.2	355.9	363.2	369.7	373.3	375.5	376.9
22.5°	346.5	357.4	366.8	374.8	380.6	384.9	387.8	388.5
25°	353.0	364.6	374.8	382.7	389.2	393.6	396.5	397.9
27.5°	355.9	367.5	378.4	387.1	393.6	398.7	400.8	401.6
30°	356.6	368.2	379.1	387.8	395.0	399.4	401.6	403.0
32.5°	353.7	365.3	376.2	384.9	391.4	395.8	398.7	399.4
35°	347.9	359.5	369.7	378.4	384.9	389.2	392.1	392.9
37.5°	340.7	351.6	361.7	369.7	376.2	380.6	382.7	383.4
40°	331.3	342.1	350.8	358.8	364.6	368.2	371.1	371.9
42.5°	321.1	331.3	340.0	346.5	351.6	355.9	357.4	358.1
45°	309.5	318.9	326.9	332.7	337.1	340.7	342.1	342.1
47.5°	298.6	307.3	313.9	318.9	321.8	324.7	325.5	326.2
50°	287.8	295.0	300.8	304.4	307.3	309.5	310.2	310.2
52.5°	277.6	283.4	287.8	291.4	292.8	295.0	295.7	295.7
55°	267.5	271.8	275.4	277.6	279.1	280.5	280.5	281.2
57.5°	257.3	260.9	263.1	264.6	266.0	266.7	267.5	267.5
60°	246.5	249.4	250.8	251.5	252.3	253.7	253.7	254.4
62.5°	235.6	237.8	238.5	239.2	239.9	240.7	241.4	241.4
65°	224.0	225.4	226.2	226.9	227.6	228.3	229.8	229.1
67.5°	212.4	213.1	213.8	214.6	215.3	216.7	217.5	217.5
70°	200.1	200.1	200.8	201.5	202.2	203.7	204.4	205.1
72.5°	187.0	186.3	187.0	187.7	189.2	190.6	191.4	191.4
75°	171.8	171.8	171.8	171.8	171.8	172.5	172.5	172.5
77.5°	154.4	150.8	150.0	149.3	149.3	149.3	149.3	150.0
80°	130.5	127.6	126.9	126.1	126.9	126.9	126.9	126.9
82.5°	105.8	102.9	102.2	101.5	101.5	101.5	101.5	102.2
85°	76.1	74.7	73.9	72.5	73.2	73.2	73.9	73.2
87.5°	41.3	39.1	39.1	38.4	39.9	39.1	39.1	38.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)