

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: P188320

Luminaire Tested: **22SR-LD2-25-C-UNV-L850-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188320
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-LD2-25-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: 1649.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 2.19 / 2
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

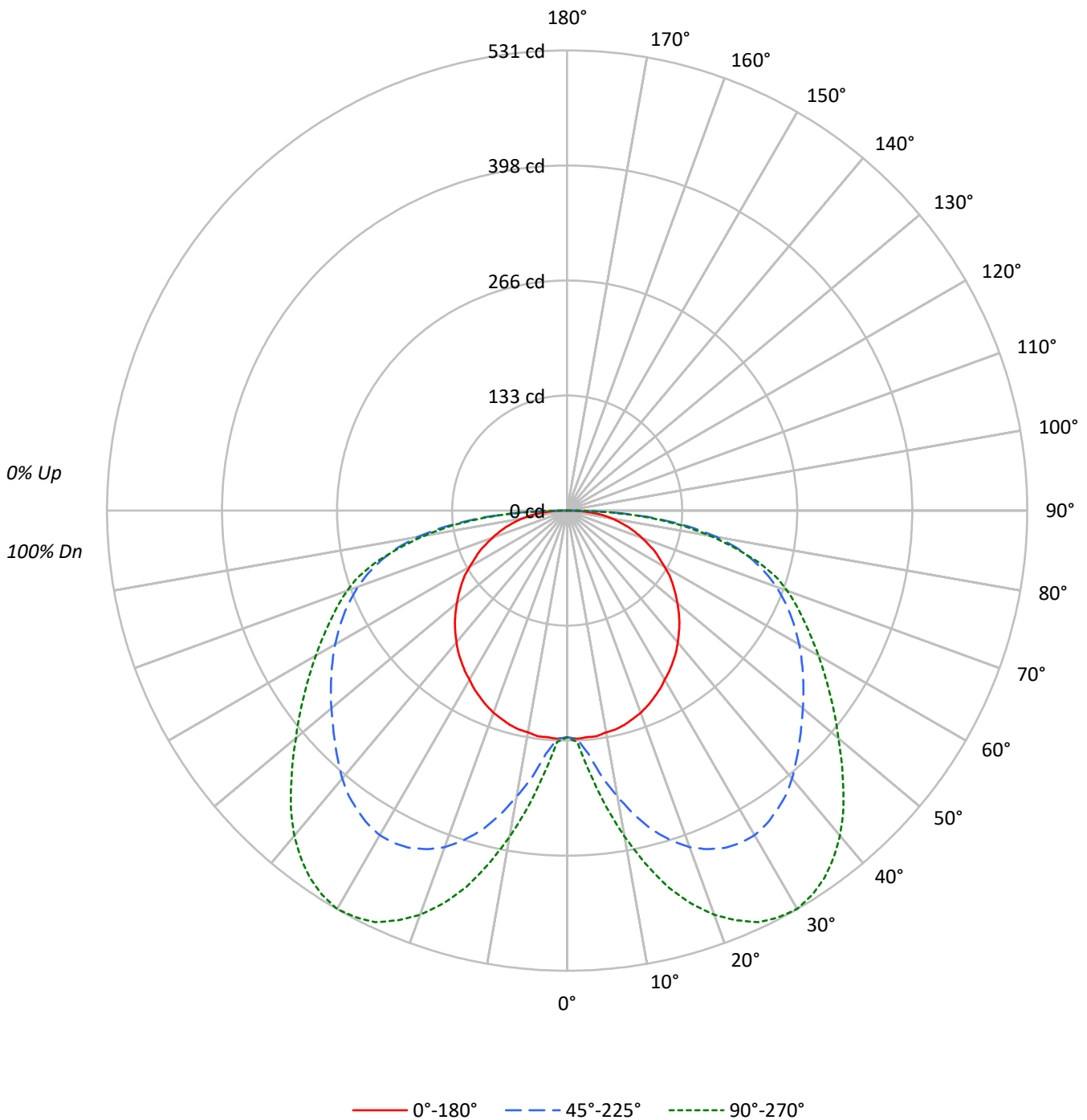
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	767	767	767
5°	772	828	896
10°	773	997	1136
15°	776	1158	1364
20°	774	1289	1548
25°	768	1389	1694
30°	762	1463	1796
35°	762	1509	1851
40°	760	1545	1873
45°	760	1570	1867
50°	757	1619	1863
55°	761	1697	1892
60°	761	1813	1964
65°	774	1972	2092
70°	786	2200	2315
75°	822	2518	2572
80°	886	2948	2820
85°	995	3436	3241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.4	1.7
10°-20°	104.3	6.3
20°-30°	188.3	11.4
30°-40°	249.4	15.1
40°-50°	273.7	16.6
50°-60°	270.7	16.4
60°-70°	248.6	15.1
70°-80°	198.9	12.1
80°-90°	86.6	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°	321.0	19.5
0°-40°	570.5	34.6
0°-60°	1114.9	67.6
0°-90°	1649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1649.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	262	262	262	262	262	
5°	262	264	282	299	305	25
15°	256	306	382	430	450	72
25°	238	327	430	499	524	110
35°	213	315	422	493	518	133
45°	183	284	379	434	451	141
55°	149	248	332	364	370	133
65°	112	210	284	298	302	110
75°	73	159	222	226	227	76
85°	30	73	102	96	96	31
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°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6
2.5°	263.5	263.5	262.5	263.5	262.5	263.5	262.5	262.5	263.5	263.5	264.5
5°	262.5	262.5	262.5	262.5	263.5	265.4	268.3	272.1	276.9	281.6	286.4
7.5°	262.5	262.5	262.5	263.5	268.3	275.9	284.5	293.1	302.6	310.3	317.0
10°	259.7	260.6	260.6	266.4	276.9	289.3	302.6	313.1	324.6	335.1	344.6
12.5°	258.7	259.7	261.6	272.1	287.4	304.6	318.9	333.2	347.5	359.9	371.4
15°	255.9	255.9	262.5	277.8	296.9	315.1	333.2	350.4	366.6	381.9	395.2
17.5°	252.0	252.0	262.5	282.6	303.6	324.6	344.6	363.7	382.8	399.1	414.3
20°	248.2	249.2	262.5	286.4	309.3	333.2	354.2	375.2	395.2	413.4	430.6
22.5°	243.4	244.4	262.5	288.3	313.1	338.0	360.9	382.8	403.8	422.9	441.1
25°	237.7	240.6	260.6	287.4	314.1	339.9	363.7	387.6	410.5	429.6	448.7
27.5°	232.0	235.8	257.8	285.5	313.1	339.9	364.7	389.5	411.5	432.5	451.6
30°	225.3	230.1	254.9	283.5	311.2	338.0	363.7	388.6	411.5	432.5	451.6
32.5°	219.6	225.3	251.1	279.7	307.4	334.1	359.9	384.7	407.7	428.7	447.8
35°	212.9	218.6	245.4	274.0	301.7	328.4	354.2	378.1	401.9	422.0	441.1
37.5°	206.2	212.9	239.6	268.3	296.0	322.7	347.5	371.4	393.3	414.3	432.5
40°	198.6	206.2	232.9	261.6	288.3	314.1	338.9	361.8	383.8	403.8	421.0
42.5°	190.9	199.5	225.3	254.0	280.7	306.5	330.3	352.3	373.3	391.4	407.7
45°	183.3	192.9	218.6	245.4	272.1	296.9	319.8	341.8	360.9	379.0	394.3
47.5°	174.7	185.2	211.0	237.7	263.5	287.4	310.3	331.3	350.4	366.6	380.9
50°	166.1	177.6	203.4	229.1	254.0	278.8	300.7	320.8	338.9	355.2	368.5
52.5°	157.5	169.9	194.8	220.5	245.4	269.2	291.2	310.3	328.4	343.7	355.2
55°	148.9	161.3	187.1	211.9	236.8	259.7	281.6	300.7	317.9	332.2	342.7
57.5°	140.3	153.7	178.5	202.4	227.2	251.1	272.1	291.2	307.4	320.8	331.3
60°	129.8	145.1	169.0	193.8	217.7	241.5	262.5	280.7	296.9	309.3	318.9
62.5°	120.3	136.5	160.4	184.3	208.1	231.0	252.0	270.2	285.5	296.9	305.5
65°	111.7	127.0	150.8	173.8	197.6	221.5	241.5	259.7	274.0	284.5	292.1
67.5°	101.2	117.4	140.3	163.3	187.1	210.0	230.1	247.3	261.6	271.1	277.8
70°	91.7	107.9	129.8	152.8	175.7	197.6	217.7	234.9	247.3	256.8	261.6
72.5°	82.1	98.3	119.3	141.3	163.3	185.2	204.3	219.6	232.0	240.6	244.4
75°	72.6	87.8	107.9	128.9	148.9	169.9	189.0	204.3	214.8	222.4	225.3
77.5°	62.1	77.3	95.5	114.6	133.7	153.7	170.9	185.2	195.7	201.4	204.3
80°	52.5	64.9	81.1	99.3	116.5	134.6	149.9	162.3	170.9	174.7	173.8
82.5°	42.0	51.6	64.9	80.2	94.5	109.8	123.2	133.7	139.4	141.3	141.3
85°	29.6	35.3	44.9	55.4	66.8	78.3	88.8	96.4	101.2	102.2	102.2
87.5°	15.3	17.2	21.0	26.7	32.5	39.1	46.8	51.6	53.5	54.4	54.4
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°	261.6	261.6	261.6	261.6	261.6	261.6	261.6	261.6
2.5°	264.5	265.4	266.4	266.4	266.4	267.3	267.3	267.3
5°	290.2	295.0	297.9	299.8	301.7	303.6	305.5	304.6
7.5°	322.7	328.4	333.2	337.0	339.9	342.7	344.6	344.6
10°	352.3	359.9	366.6	372.3	377.1	379.0	381.9	381.9
12.5°	381.9	390.5	398.1	405.7	410.5	414.3	417.2	417.2
15°	406.7	417.2	425.8	434.4	441.1	445.8	447.8	449.7
17.5°	427.7	439.2	449.7	459.2	465.9	470.7	473.5	475.4
20°	443.9	457.3	468.8	478.3	486.9	491.7	494.5	496.4
22.5°	456.3	470.7	483.1	493.6	501.2	506.9	510.8	511.7
25°	464.9	480.2	493.6	504.1	512.7	518.4	522.2	524.1
27.5°	468.8	484.0	498.4	509.8	518.4	525.1	528.0	528.9
30°	469.7	485.0	499.3	510.8	520.3	526.0	528.9	530.8
32.5°	465.9	481.2	495.5	506.9	515.5	521.3	525.1	526.0
35°	458.3	473.5	486.9	498.4	506.9	512.7	516.5	517.5
37.5°	448.7	463.0	476.4	486.9	495.5	501.2	504.1	505.0
40°	436.3	450.6	462.1	472.6	480.2	485.0	488.8	489.8
42.5°	422.9	436.3	447.8	456.3	463.0	468.8	470.7	471.6
45°	407.7	420.1	430.6	438.2	443.9	448.7	450.6	450.6
47.5°	393.3	404.8	413.4	420.1	423.9	427.7	428.7	429.6
50°	379.0	388.6	396.2	401.0	404.8	407.7	408.6	408.6
52.5°	365.7	373.3	379.0	383.8	385.7	388.6	389.5	389.5
55°	352.3	358.0	362.8	365.7	367.6	369.5	369.5	370.4
57.5°	338.9	343.7	346.6	348.5	350.4	351.3	352.3	352.3
60°	324.6	328.4	330.3	331.3	332.2	334.1	334.1	335.1
62.5°	310.3	313.1	314.1	315.1	316.0	317.0	317.9	317.9
65°	295.0	296.9	297.9	298.8	299.8	300.7	302.6	301.7
67.5°	279.7	280.7	281.6	282.6	283.5	285.5	286.4	286.4
70°	263.5	263.5	264.5	265.4	266.4	268.3	269.2	270.2
72.5°	246.3	245.4	246.3	247.3	249.2	251.1	252.0	252.0
75°	226.3	226.3	226.3	226.3	226.3	227.2	227.2	227.2
77.5°	203.4	198.6	197.6	196.7	196.7	196.7	196.7	197.6
80°	171.8	168.0	167.1	166.1	167.1	167.1	167.1	167.1
82.5°	139.4	135.6	134.6	133.7	133.7	133.7	133.7	134.6
85°	100.2	98.3	97.4	95.5	96.4	96.4	97.4	96.4
87.5°	54.4	51.6	51.6	50.6	52.5	51.6	51.6	50.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)