

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: P188522

Luminaire Tested: **24SR-LD2-34-C-UNV-L830-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24780)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-34-C-UNV-L830-CD1-PG-U
Description: METALUX 2X4 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: 2069.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 2.25 / 2.05
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

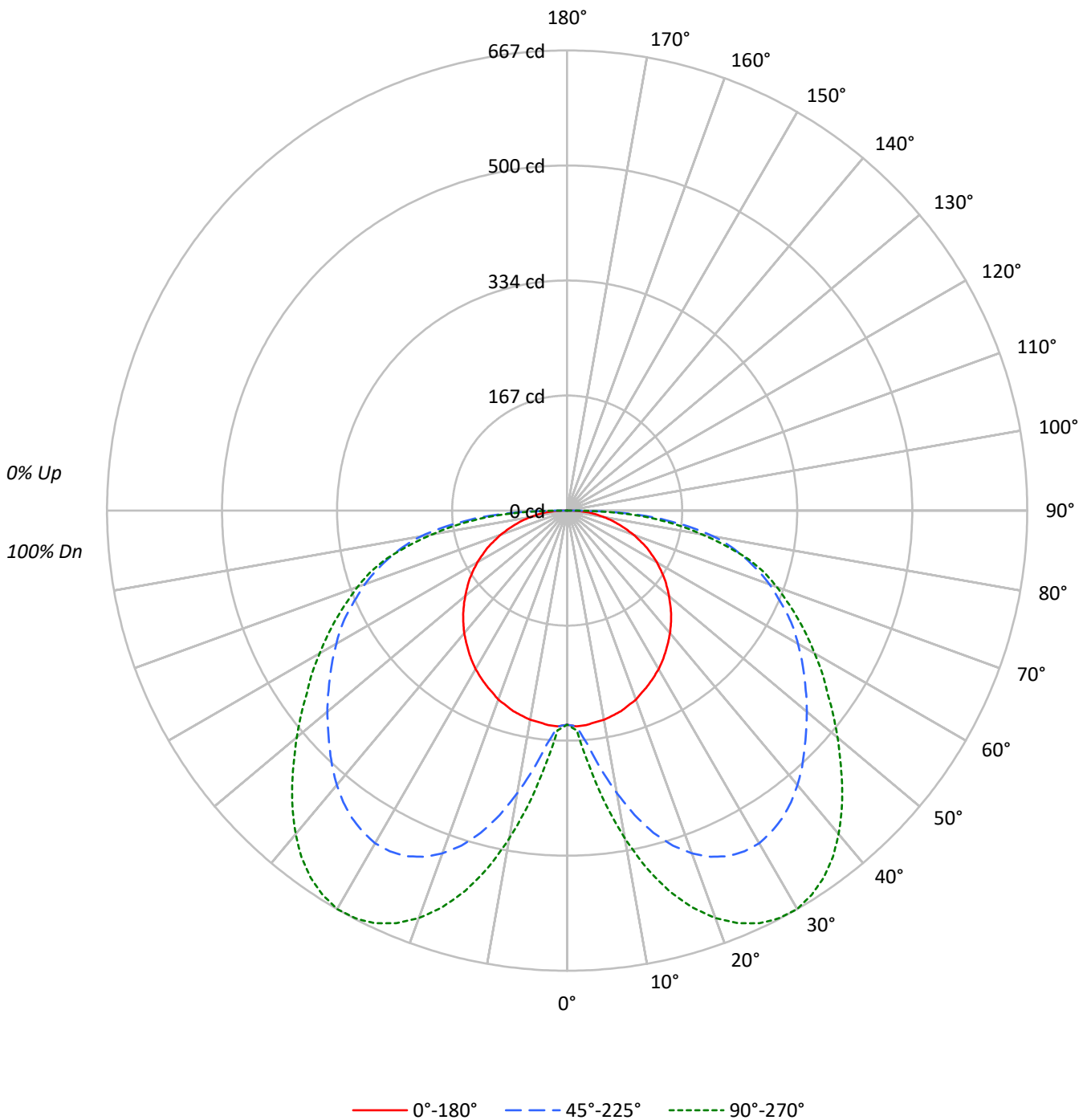
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	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	46	36	29	58	45	36	29	43	35	29	42	34	29	40	33	28	26
8	56	41	32	26	54	41	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	23	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°	418	418	418
5°	422	459	503
10°	421	568	659
15°	419	673	795
20°	418	757	900
25°	414	820	980
30°	412	865	1036
35°	409	894	1066
40°	407	912	1075
45°	406	926	1073
50°	403	950	1071
55°	404	984	1080
60°	404	1040	1115
65°	405	1118	1173
70°	402	1228	1271
75°	403	1392	1414
80°	416	1671	1540
85°	488	2079	1870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.6	1.7
10°-20°	130.6	6.3
20°-30°	237.6	11.5
30°-40°	315.2	15.2
40°-50°	345.3	16.7
50°-60°	339.4	16.4
60°-70°	307.9	14.9
70°-80°	244.0	11.8
80°-90°	114.4	5.5
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°	402.8	19.5
0°-40°	718.0	34.7
0°-60°	1402.7	67.8
0°-90°	2069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	310	310	310	310	310	
5°	312	314	340	364	373	30
15°	301	374	484	549	570	85
25°	279	412	553	631	660	129
35°	249	403	544	621	649	156
45°	213	362	487	546	564	164
55°	172	318	420	452	460	154
65°	127	275	351	362	368	125
75°	78	212	268	268	272	82
85°	32	114	135	121	121	32
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°	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4
2.5°	313.0	312.1	312.1	312.1	311.2	311.2	311.2	312.1	312.1	313.0	314.7
5°	312.1	311.2	311.2	311.2	313.0	315.5	320.6	326.6	333.4	340.2	347.9
7.5°	309.5	309.5	309.5	312.1	319.8	330.0	342.8	355.6	366.7	378.6	389.7
10°	307.8	307.8	309.5	318.1	333.4	350.5	367.5	384.6	399.9	416.1	431.5
12.5°	304.4	304.4	309.5	325.7	347.1	369.2	390.6	411.9	432.3	451.9	469.0
15°	301.0	301.0	312.1	335.1	360.7	387.1	412.7	437.5	461.3	483.5	503.1
17.5°	295.9	296.8	313.8	341.9	372.6	402.5	430.6	458.8	484.4	509.1	529.5
20°	291.6	293.3	315.5	347.9	382.0	415.3	446.8	475.8	503.1	528.7	550.9
22.5°	284.8	288.2	316.4	352.2	388.8	424.7	457.1	487.8	516.8	543.2	565.4
25°	278.8	283.1	315.5	353.9	394.0	430.6	463.9	495.4	525.3	552.6	575.6
27.5°	272.0	278.8	314.7	354.7	395.7	433.2	467.3	499.7	529.5	556.8	580.7
30°	265.2	273.7	312.1	353.9	394.8	432.3	466.4	499.7	529.5	556.8	579.9
32.5°	257.5	266.9	307.0	349.6	391.4	428.1	462.2	494.6	525.3	551.7	574.7
35°	249.0	260.1	301.0	343.7	384.6	421.2	454.5	486.9	516.8	544.0	566.2
37.5°	240.5	253.3	294.2	336.8	376.9	412.7	445.1	477.5	506.5	533.0	554.3
40°	231.9	245.6	286.5	328.3	367.5	402.5	434.9	466.4	493.7	519.3	538.9
42.5°	222.6	237.9	278.0	318.9	356.4	390.6	423.0	453.7	480.1	504.0	522.7
45°	213.2	228.5	268.6	308.7	346.2	378.6	410.2	440.0	464.7	486.9	504.8
47.5°	203.0	220.0	260.1	298.5	334.3	367.5	398.2	425.5	450.2	469.9	486.9
50°	192.7	210.6	249.9	288.2	323.2	355.6	385.4	411.9	434.9	453.7	468.1
52.5°	182.5	201.2	240.5	278.0	313.0	344.5	373.5	398.2	419.5	436.6	451.1
55°	172.3	191.9	231.1	267.8	302.7	333.4	361.6	384.6	405.0	419.5	431.5
57.5°	161.2	182.5	221.7	258.4	292.5	323.2	349.6	371.8	390.6	403.3	413.6
60°	150.1	172.3	211.5	249.0	282.3	312.1	337.7	359.0	375.2	386.3	395.7
62.5°	138.1	162.0	202.1	238.8	272.0	301.0	324.9	343.7	359.9	370.1	375.2
65°	127.1	151.8	191.9	228.5	260.9	288.2	311.2	329.2	342.8	351.3	355.6
67.5°	114.3	140.7	180.8	217.4	248.1	274.6	295.9	313.0	324.9	330.9	334.3
70°	102.3	129.6	168.8	204.7	233.6	259.2	279.7	295.9	306.1	312.1	313.0
72.5°	89.5	117.7	156.9	191.0	219.2	243.0	262.6	277.1	285.7	290.8	291.6
75°	77.6	104.9	142.4	174.8	201.2	223.4	242.2	255.8	264.3	267.8	267.8
77.5°	65.7	91.2	127.1	157.8	182.5	203.0	220.0	233.6	240.5	243.9	243.9
80°	53.7	78.5	110.9	139.0	161.2	179.9	197.0	208.9	215.7	215.7	210.6
82.5°	42.6	64.0	92.1	117.7	136.4	153.5	169.7	177.4	179.1	177.4	173.1
85°	31.6	48.6	71.6	91.2	108.3	120.2	130.5	135.6	136.4	134.7	131.3
87.5°	17.9	28.1	40.9	53.7	64.8	70.8	79.3	81.0	81.0	83.6	79.3
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°	310.4	310.4	310.4	310.4	310.4	310.4	310.4	310.4
2.5°	315.5	316.4	316.4	318.9	318.9	319.8	318.9	318.9
5°	353.0	356.4	361.6	366.7	368.4	371.8	370.9	372.6
7.5°	398.2	405.0	412.7	419.5	423.0	426.4	427.2	429.8
10°	443.4	451.9	461.3	470.7	475.8	478.4	481.8	482.6
12.5°	482.6	495.4	504.8	515.0	521.9	525.3	528.7	530.4
15°	518.5	531.3	543.2	554.3	561.1	566.2	569.6	570.5
17.5°	545.7	560.2	573.0	585.0	591.8	597.8	601.2	602.9
20°	567.1	583.3	596.1	608.0	615.7	622.5	627.6	628.5
22.5°	582.4	598.6	613.1	625.1	634.4	641.3	645.5	647.2
25°	593.5	610.6	625.1	637.0	646.4	654.0	658.3	660.0
27.5°	598.6	616.5	631.9	643.0	652.3	660.0	665.1	666.0
30°	599.5	616.5	631.9	643.8	653.2	660.9	665.1	666.8
32.5°	593.5	611.4	626.8	637.8	647.2	654.9	659.2	660.0
35°	585.0	601.2	615.7	626.8	636.1	643.0	647.2	648.9
37.5°	572.2	587.5	601.2	611.4	619.9	626.8	631.0	632.7
40°	556.8	571.3	584.1	593.5	601.2	607.1	610.6	612.3
42.5°	538.9	552.6	564.5	572.2	579.9	585.0	587.5	589.2
45°	520.2	533.0	542.3	549.2	556.0	560.2	562.8	563.7
47.5°	500.6	511.6	519.3	525.3	530.4	534.7	537.2	537.2
50°	480.9	490.3	496.3	502.3	506.5	509.1	510.8	511.6
52.5°	461.3	469.0	473.3	478.4	481.8	484.4	486.1	486.1
55°	440.9	446.8	450.2	454.5	457.9	459.6	461.3	460.5
57.5°	421.2	425.5	428.1	431.5	434.0	435.7	437.5	438.3
60°	400.8	404.2	405.0	408.5	411.0	412.7	413.6	414.4
62.5°	379.5	382.0	383.7	385.4	388.0	389.7	390.6	391.4
65°	358.1	359.9	359.9	363.3	365.8	366.7	367.5	368.4
67.5°	336.0	336.8	337.7	340.2	342.8	343.7	345.4	345.4
70°	313.8	313.8	314.7	317.2	319.8	320.6	322.3	323.2
72.5°	290.8	291.6	291.6	294.2	296.8	298.5	299.3	300.2
75°	266.9	266.9	267.8	268.6	269.5	270.3	270.3	272.0
77.5°	241.3	237.9	236.2	234.5	235.4	235.4	234.5	235.4
80°	205.5	201.2	198.7	197.8	198.7	197.8	197.8	198.7
82.5°	168.8	163.7	162.0	161.2	161.2	161.2	160.3	162.0
85°	127.1	123.6	121.9	120.2	121.1	121.1	120.2	121.1
87.5°	76.7	75.0	73.3	71.6	72.5	71.6	70.8	73.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)