

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: P188523

Luminaire Tested: **24SR-LD2-34-C-UNV-L835-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188523
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-L835-CD1-PG-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2133.0 lumens
Efficiency: N/A
Efficacy: 78.4 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

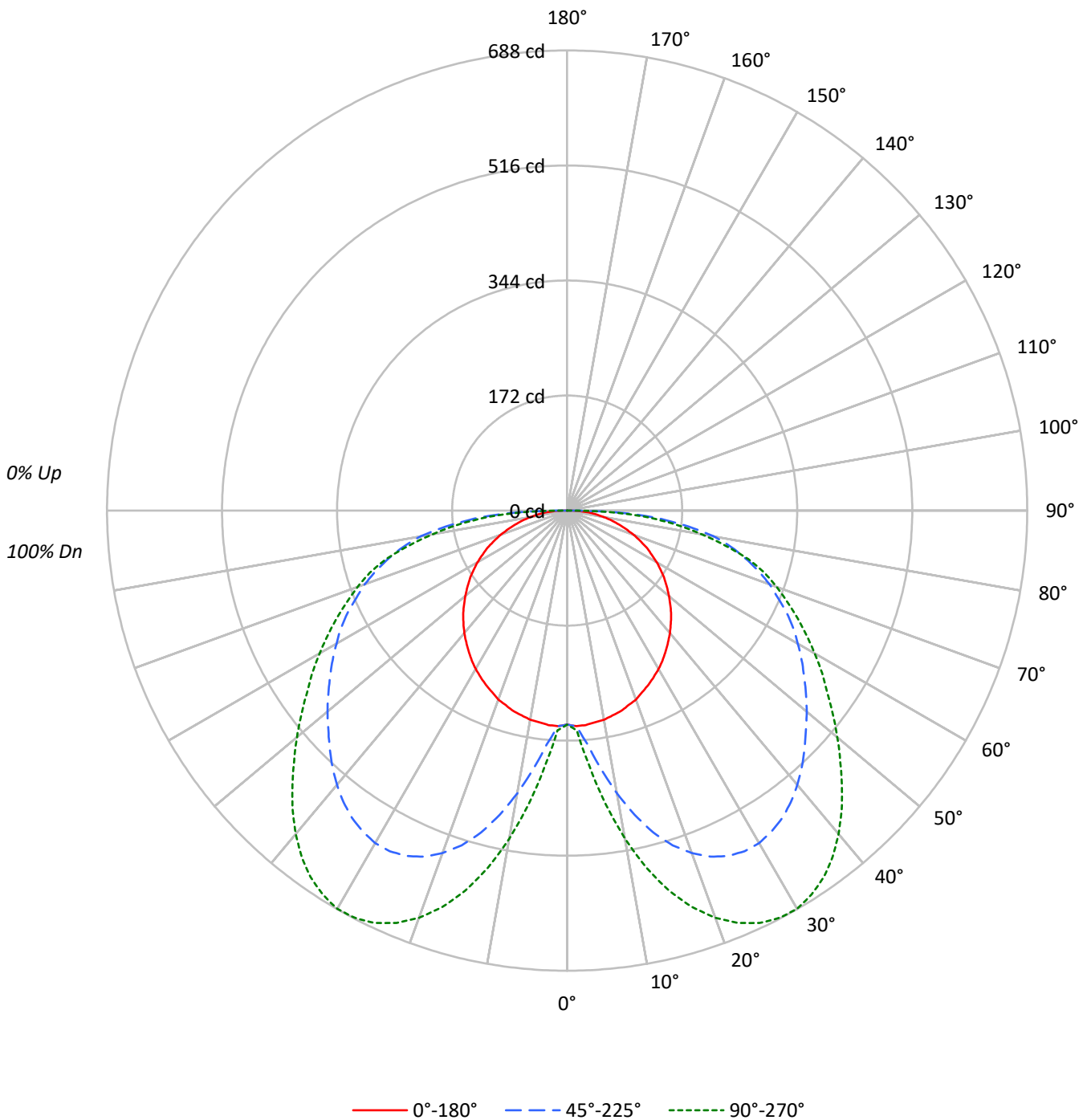
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	431	431	431
5°	435	474	519
10°	434	586	680
15°	432	694	819
20°	431	780	928
25°	427	846	1010
30°	425	892	1068
35°	422	921	1099
40°	420	940	1109
45°	418	955	1106
50°	416	979	1104
55°	417	1015	1114
60°	416	1072	1150
65°	417	1153	1209
70°	415	1266	1311
75°	416	1435	1458
80°	429	1723	1587
85°	502	2144	1927



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.6	1.7
10°-20°	134.6	6.3
20°-30°	245.0	11.5
30°-40°	325.0	15.2
40°-50°	356.0	16.7
50°-60°	349.9	16.4
60°-70°	317.4	14.9
70°-80°	251.6	11.8
80°-90°	117.9	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°	415.2	19.5
0°-40°	740.2	34.7
0°-60°	1446.1	67.8
0°-90°	2133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	320	320	320	320	320	
5°	322	324	351	375	384	31
15°	310	386	498	566	588	88
25°	288	425	570	651	680	133
35°	257	415	561	640	669	161
45°	220	374	502	563	581	169
55°	178	328	432	466	475	159
65°	131	283	362	373	380	129
75°	80	219	276	276	280	85
85°	32	118	139	125	125	33
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°	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0
2.5°	322.6	321.8	321.8	321.8	320.9	320.9	320.9	321.8	321.8	322.6	324.4
5°	321.8	320.9	320.9	320.9	322.6	325.3	330.5	336.7	343.7	350.8	358.7
7.5°	319.1	319.1	319.1	321.8	329.7	340.2	353.4	366.6	378.0	390.3	401.8
10°	317.4	317.4	319.1	327.9	343.7	361.3	378.9	396.5	412.3	429.0	444.8
12.5°	313.8	313.8	319.1	335.8	357.8	380.7	402.6	424.6	445.7	465.9	483.5
15°	310.3	310.3	321.8	345.5	371.9	399.1	425.5	451.0	475.6	498.5	518.7
17.5°	305.1	305.9	323.5	352.5	384.2	414.9	444.0	473.0	499.3	524.8	545.9
20°	300.7	302.4	325.3	358.7	393.8	428.1	460.7	490.5	518.7	545.0	567.9
22.5°	293.6	297.1	326.1	363.1	400.9	437.8	471.2	502.9	532.7	560.0	582.8
25°	287.5	291.9	325.3	364.8	406.1	444.0	478.2	510.8	541.5	569.7	593.4
27.5°	280.4	287.5	324.4	365.7	407.9	446.6	481.8	515.2	545.9	574.1	598.7
30°	273.4	282.2	321.8	364.8	407.0	445.7	480.9	515.2	545.9	574.1	597.8
32.5°	265.5	275.2	316.5	360.4	403.5	441.3	476.5	509.9	541.5	568.8	592.5
35°	256.7	268.1	310.3	354.3	396.5	434.3	468.6	502.0	532.7	560.9	583.7
37.5°	247.9	261.1	303.3	347.2	388.6	425.5	458.9	492.3	522.2	549.4	571.4
40°	239.1	253.2	295.4	338.5	378.9	414.9	448.3	480.9	509.0	535.4	555.6
42.5°	229.4	245.3	286.6	328.8	367.5	402.6	436.0	467.7	494.9	519.6	538.9
45°	219.8	235.6	276.9	318.2	356.9	390.3	422.9	453.6	479.1	502.0	520.4
47.5°	209.2	226.8	268.1	307.7	344.6	378.9	410.5	438.7	464.2	484.4	502.0
50°	198.7	217.1	257.6	297.1	333.2	366.6	397.4	424.6	448.3	467.7	482.6
52.5°	188.1	207.5	247.9	286.6	322.6	355.2	385.0	410.5	432.5	450.1	465.0
55°	177.6	197.8	238.2	276.0	312.1	343.7	372.7	396.5	417.6	432.5	444.8
57.5°	166.2	188.1	228.6	266.4	301.5	333.2	360.4	383.3	402.6	415.8	426.4
60°	154.7	177.6	218.0	256.7	291.0	321.8	348.1	370.1	386.8	398.2	407.9
62.5°	142.4	167.0	208.3	246.2	280.4	310.3	334.9	354.3	371.0	381.5	386.8
65°	131.0	156.5	197.8	235.6	269.0	297.1	320.9	339.3	353.4	362.2	366.6
67.5°	117.8	145.1	186.4	224.2	255.8	283.1	305.1	322.6	334.9	341.1	344.6
70°	105.5	133.6	174.1	211.0	240.9	267.2	288.3	305.1	315.6	321.8	322.6
72.5°	92.3	121.3	161.8	196.9	225.9	250.5	270.8	285.7	294.5	299.8	300.7
75°	80.0	108.1	146.8	180.2	207.5	230.3	249.7	263.7	272.5	276.0	276.0
77.5°	67.7	94.1	131.0	162.6	188.1	209.2	226.8	240.9	247.9	251.4	251.4
80°	55.4	80.9	114.3	143.3	166.2	185.5	203.1	215.4	222.4	222.4	217.1
82.5°	44.0	65.9	94.9	121.3	140.7	158.2	174.9	182.9	184.6	182.9	178.5
85°	32.5	50.1	73.8	94.1	111.6	124.0	134.5	139.8	140.7	138.9	135.4
87.5°	18.5	29.0	42.2	55.4	66.8	73.0	81.8	83.5	83.5	86.2	81.8
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°	320.0	320.0	320.0	320.0	320.0	320.0	320.0	320.0
2.5°	325.3	326.1	326.1	328.8	328.8	329.7	328.8	328.8
5°	364.0	367.5	372.7	378.0	379.8	383.3	382.4	384.2
7.5°	410.5	417.6	425.5	432.5	436.0	439.6	440.4	443.1
10°	457.1	465.9	475.6	485.3	490.5	493.2	496.7	497.6
12.5°	497.6	510.8	520.4	531.0	538.0	541.5	545.0	546.8
15°	534.5	547.7	560.0	571.4	578.5	583.7	587.2	588.1
17.5°	562.6	577.6	590.8	603.1	610.1	616.3	619.8	621.5
20°	584.6	601.3	614.5	626.8	634.7	641.7	647.0	647.9
22.5°	600.4	617.1	632.1	644.4	654.1	661.1	665.5	667.2
25°	611.9	629.4	644.4	656.7	666.4	674.3	678.7	680.4
27.5°	617.1	635.6	651.4	662.8	672.5	680.4	685.7	686.6
30°	618.0	635.6	651.4	663.7	673.4	681.3	685.7	687.5
32.5°	611.9	630.3	646.1	657.6	667.2	675.2	679.6	680.4
35°	603.1	619.8	634.7	646.1	655.8	662.8	667.2	669.0
37.5°	589.9	605.7	619.8	630.3	639.1	646.1	650.5	652.3
40°	574.1	589.0	602.2	611.9	619.8	625.9	629.4	631.2
42.5°	555.6	569.7	582.0	589.9	597.8	603.1	605.7	607.5
45°	536.3	549.4	559.1	566.1	573.2	577.6	580.2	581.1
47.5°	516.0	527.5	535.4	541.5	546.8	551.2	553.8	553.8
50°	495.8	505.5	511.6	517.8	522.2	524.8	526.6	527.5
52.5°	475.6	483.5	487.9	493.2	496.7	499.3	501.1	501.1
55°	454.5	460.7	464.2	468.6	472.1	473.8	475.6	474.7
57.5°	434.3	438.7	441.3	444.8	447.5	449.2	451.0	451.9
60°	413.2	416.7	417.6	421.1	423.7	425.5	426.4	427.2
62.5°	391.2	393.8	395.6	397.4	400.0	401.8	402.6	403.5
65°	369.2	371.0	371.0	374.5	377.1	378.0	378.9	379.8
67.5°	346.4	347.2	348.1	350.8	353.4	354.3	356.0	356.0
70°	323.5	323.5	324.4	327.0	329.7	330.5	332.3	333.2
72.5°	299.8	300.7	300.7	303.3	305.9	307.7	308.6	309.4
75°	275.2	275.2	276.0	276.9	277.8	278.7	278.7	280.4
77.5°	248.8	245.3	243.5	241.8	242.6	242.6	241.8	242.6
80°	211.9	207.5	204.8	204.0	204.8	204.0	204.0	204.8
82.5°	174.1	168.8	167.0	166.2	166.2	166.2	165.3	167.0
85°	131.0	127.5	125.7	124.0	124.8	124.8	124.0	124.8
87.5°	79.1	77.4	75.6	73.8	74.7	73.8	73.0	75.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)