

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: P188485

Luminaire Tested: **24SR-LD2-34-C-UNV-L850-CD1-MR-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24779)  
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-L850-CD1-MR-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2324.0 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 2.27 / 2.06  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

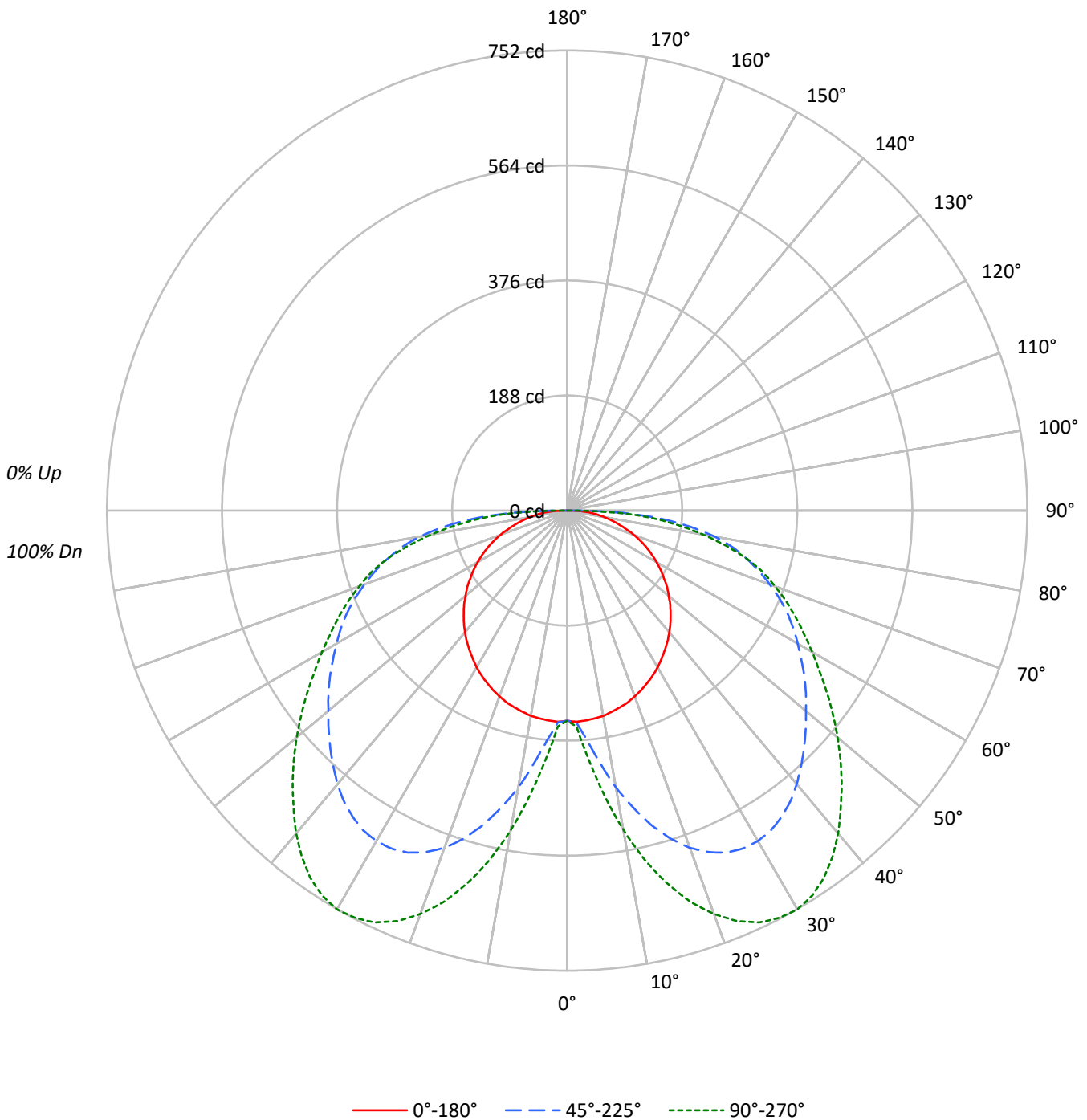
Input Watts (W): 27.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	85	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62
3	85	73	64	56	83	72	63	56	69	61	55	66	59	54	63	58	53	50
4	78	64	54	47	75	63	53	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	55	46	39	53	45	39	51	44	38	49	43	38	35
6	65	50	41	34	63	49	40	33	48	39	33	46	38	33	44	38	32	30
7	60	45	36	29	58	45	35	29	43	35	29	41	34	29	40	33	28	26
8	56	41	32	26	54	40	32	26	39	31	25	38	30	25	36	30	25	23
9	52	38	29	23	50	37	28	23	36	28	23	35	27	22	33	27	22	20
10	48	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°	462	462	462
5°	465	509	554
10°	465	628	724
15°	464	741	878
20°	462	840	1005
25°	461	916	1103
30°	459	969	1169
35°	457	1004	1202
40°	456	1025	1210
45°	455	1042	1207
50°	454	1066	1207
55°	453	1110	1216
60°	454	1171	1245
65°	457	1265	1311
70°	457	1386	1421
75°	456	1578	1583
80°	477	1898	1746
85°	557	2381	2155



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.1	1.6
10°-20°	144.4	6.2
20°-30°	265.6	11.4
30°-40°	354.1	15.2
40°-50°	387.9	16.7
50°-60°	381.4	16.4
60°-70°	346.2	14.9
70°-80°	275.6	11.9
80°-90°	130.6	5.6
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°	448.1	19.3
0°-40°	802.2	34.5
0°-60°	1571.6	67.6
0°-90°	2324.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2324.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	344	344	344	344	344	
5°	344	347	377	401	410	33
15°	333	412	532	606	630	94
25°	310	457	617	709	743	143
35°	278	449	611	701	732	174
45°	239	405	548	614	634	185
55°	193	358	473	509	518	173
65°	144	309	397	406	412	142
75°	88	242	304	302	304	93
85°	36	130	154	140	140	37
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°	343.5	343.5	343.5	343.5	343.5	343.5	343.5	343.5	343.5	343.5	343.5
2.5°	345.5	345.5	344.5	344.5	344.5	343.5	343.5	344.5	345.5	346.5	347.4
5°	344.5	344.5	344.5	344.5	345.5	349.4	354.3	361.1	367.0	376.7	381.6
7.5°	342.6	342.6	343.5	346.5	354.3	365.0	377.7	392.3	404.1	416.7	428.5
10°	340.6	340.6	342.6	352.3	367.9	386.5	405.0	423.6	440.2	459.7	474.3
12.5°	336.7	336.7	342.6	360.1	383.6	407.0	430.4	454.8	476.3	496.8	517.3
15°	332.8	332.8	344.5	368.9	398.2	426.5	453.8	482.1	507.5	531.9	553.4
17.5°	328.9	329.9	347.4	378.7	410.9	444.1	476.3	506.5	534.8	562.2	586.6
20°	323.0	325.0	349.4	385.5	421.6	458.7	492.9	526.0	557.3	586.6	611.9
22.5°	317.2	321.1	350.4	390.4	430.4	470.4	506.5	540.7	573.9	604.1	630.5
25°	310.4	315.2	351.3	393.3	436.3	477.2	515.3	551.4	585.6	616.8	643.2
27.5°	303.5	310.4	349.4	393.3	438.2	481.2	519.2	556.3	592.4	622.7	651.0
30°	295.7	304.5	346.5	392.3	438.2	480.2	519.2	557.3	592.4	623.6	651.0
32.5°	286.9	298.6	341.6	388.4	434.3	477.2	516.3	553.4	588.5	619.7	646.1
35°	278.2	290.8	335.7	382.6	428.5	470.4	508.5	545.6	579.7	611.0	637.3
37.5°	269.4	284.0	328.9	375.7	419.7	460.7	498.7	535.8	569.0	599.2	623.6
40°	259.6	275.2	320.1	366.0	409.9	448.9	487.0	522.1	554.4	583.6	607.1
42.5°	249.8	266.4	310.4	356.2	398.2	437.2	474.3	508.5	539.7	566.1	587.5
45°	239.1	256.7	300.6	344.5	385.5	424.5	460.7	492.9	523.1	547.5	567.0
47.5°	228.4	246.9	289.9	333.8	373.8	411.9	447.0	478.2	505.6	529.0	547.5
50°	216.7	236.2	279.1	322.1	362.1	399.2	433.3	462.6	489.0	509.5	527.0
52.5°	205.9	226.4	268.4	311.3	350.4	387.5	420.6	448.0	472.4	491.9	506.5
55°	193.2	215.7	258.6	300.6	339.6	375.7	407.0	433.3	455.8	473.3	486.0
57.5°	181.5	205.0	247.9	289.9	327.9	364.0	393.3	418.7	438.2	453.8	465.5
60°	168.8	194.2	237.2	279.1	317.2	352.3	380.6	404.1	422.6	435.3	445.0
62.5°	156.2	182.5	227.4	268.4	305.5	338.7	366.0	387.5	404.1	416.7	422.6
65°	143.5	170.8	215.7	257.7	293.8	325.0	351.3	371.8	386.5	397.2	401.1
67.5°	129.8	159.1	204.0	244.0	280.1	310.4	334.8	354.3	367.0	375.7	377.7
70°	116.1	145.4	190.3	230.3	264.5	292.8	317.2	333.8	346.5	352.3	354.3
72.5°	101.5	131.8	176.7	214.7	246.9	275.2	296.7	314.3	325.0	328.9	328.9
75°	87.8	117.1	161.0	197.1	228.4	254.7	275.2	290.8	300.6	303.5	302.6
77.5°	74.2	103.5	144.4	178.6	206.9	231.3	250.8	265.5	274.2	277.2	276.2
80°	61.5	88.8	124.9	157.1	182.5	205.0	222.5	238.1	245.9	245.0	239.1
82.5°	48.8	72.2	104.4	132.7	155.2	175.7	193.2	203.0	205.9	203.0	197.1
85°	36.1	54.7	81.0	103.5	122.0	138.6	149.3	156.2	157.1	154.2	149.3
87.5°	21.5	32.2	47.8	61.5	75.1	83.0	88.8	93.7	94.7	91.7	89.8
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°	343.5	343.5	343.5	343.5	343.5	343.5	343.5	343.5
2.5°	348.4	349.4	350.4	352.3	351.3	352.3	352.3	353.3
5°	388.4	394.3	398.2	404.1	404.1	407.0	408.0	409.9
7.5°	437.2	445.0	453.8	462.6	463.6	468.5	470.4	470.4
10°	487.0	497.7	508.5	518.2	521.2	527.0	530.0	530.0
12.5°	531.9	543.6	558.3	569.0	572.9	579.7	583.6	584.6
15°	570.9	585.6	600.2	611.9	618.8	625.6	629.5	630.5
17.5°	604.1	621.7	637.3	649.0	656.8	664.6	669.5	670.5
20°	630.5	650.0	665.6	678.3	687.1	696.8	700.7	701.7
22.5°	651.0	669.5	687.1	700.7	710.5	720.3	725.1	726.1
25°	664.6	684.2	701.7	716.4	727.1	735.9	740.8	742.7
27.5°	672.4	692.9	710.5	724.2	734.9	744.7	749.5	750.5
30°	673.4	693.9	711.5	725.1	735.9	745.6	750.5	752.5
32.5°	668.5	689.0	705.6	719.3	730.0	738.8	743.7	745.6
35°	658.8	678.3	694.9	707.6	717.3	725.1	731.0	732.0
37.5°	645.1	663.7	678.3	690.0	699.8	707.6	712.5	712.5
40°	626.6	644.1	656.8	667.6	677.3	683.2	689.0	689.0
42.5°	606.1	622.7	634.4	644.1	651.0	657.8	661.7	661.7
45°	584.6	598.3	610.0	617.8	624.6	629.5	634.4	634.4
47.5°	563.1	574.8	583.6	591.4	597.3	602.2	606.1	606.1
50°	540.7	551.4	558.3	565.1	570.0	573.9	576.8	576.8
52.5°	518.2	527.0	531.9	537.8	541.7	545.6	547.5	547.5
55°	496.8	502.6	506.5	511.4	514.3	516.3	518.2	518.2
57.5°	473.3	477.2	481.2	484.1	486.0	488.0	489.9	489.0
60°	449.9	452.9	455.8	457.7	459.7	461.6	462.6	462.6
62.5°	426.5	427.5	428.5	432.4	434.3	435.3	436.3	436.3
65°	403.1	403.1	404.1	407.0	408.9	410.9	411.9	411.9
67.5°	377.7	378.7	379.7	382.6	383.6	385.5	387.5	387.5
70°	352.3	353.3	353.3	356.2	357.2	359.2	361.1	361.1
72.5°	327.9	327.9	327.9	329.9	331.8	333.8	335.7	335.7
75°	300.6	300.6	300.6	302.6	302.6	303.5	305.5	304.5
77.5°	271.3	268.4	265.5	264.5	264.5	265.5	266.4	266.4
80°	233.3	229.4	227.4	225.4	224.5	225.4	226.4	225.4
82.5°	193.2	188.4	185.4	184.5	184.5	184.5	185.4	183.5
85°	146.4	141.5	139.6	139.6	138.6	138.6	138.6	139.6
87.5°	87.8	84.9	82.0	83.0	82.0	81.0	82.0	83.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)