

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: P188603

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188603  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24785)  
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-SO-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH STORARO ORANGE SKYTRIM.  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

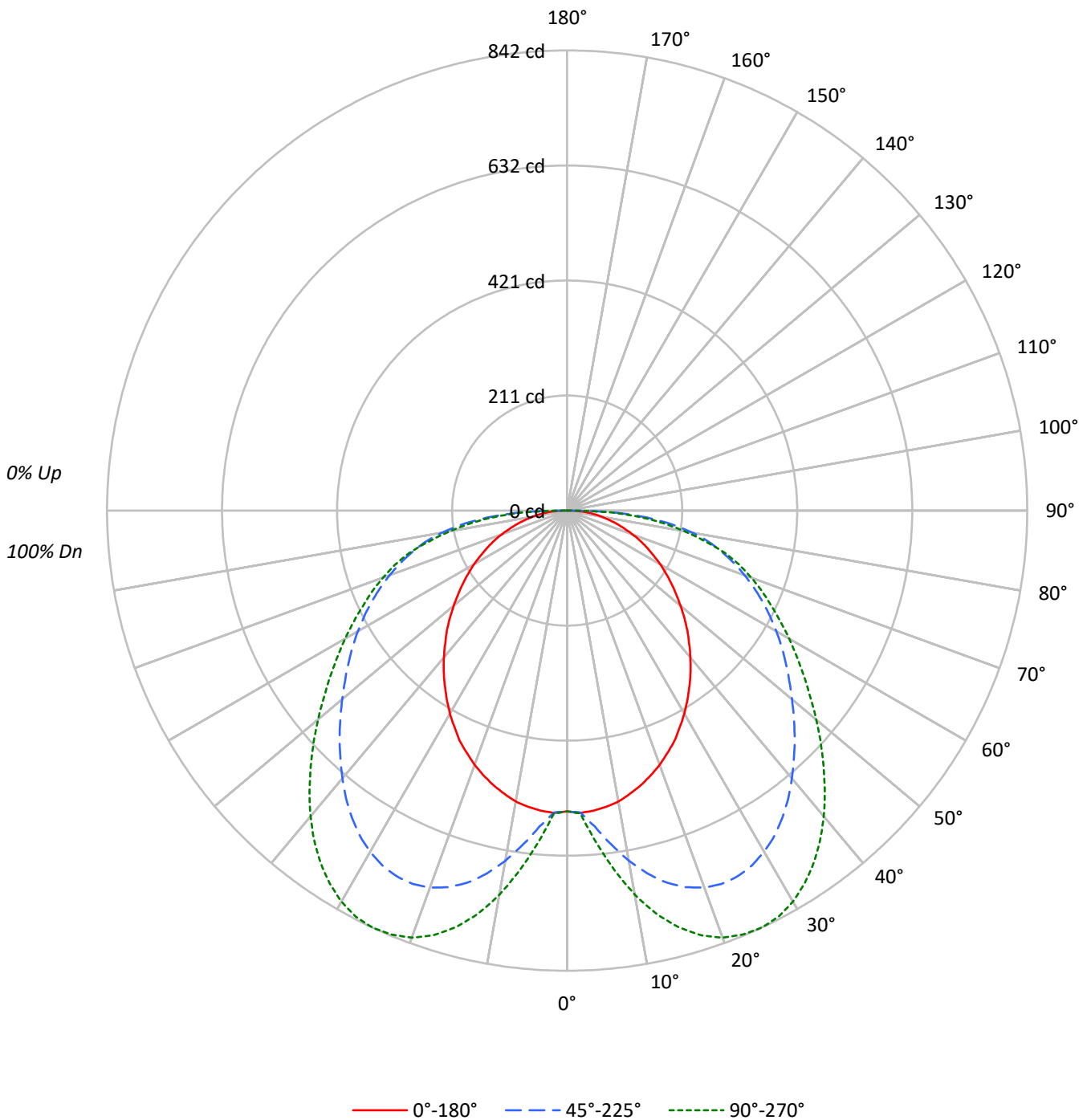
Lumens per Lamp: N/A  
Luminaire Lumens: 2543.0 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.85 / 1.72  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.2  
Input Voltage (V): NR  
Input Current (A<sub>in</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	107	101	96	91	104	99	94	90	94	90	87	90	87	84	87	84	82	79
2	96	87	79	72	93	85	77	71	81	75	70	78	73	68	74	70	66	64
3	87	75	66	59	84	74	65	58	70	63	57	68	61	56	65	60	55	53
4	79	66	56	49	77	65	56	49	62	54	48	60	53	47	57	52	47	44
5	72	59	49	42	70	57	48	42	55	47	41	53	46	41	51	45	40	38
6	67	53	43	36	65	52	43	36	50	42	36	48	41	35	46	40	35	33
7	62	47	38	32	60	47	38	32	45	37	31	43	36	31	42	36	31	29
8	57	43	34	28	56	42	34	28	41	33	28	40	33	28	39	32	27	25
9	53	39	31	25	52	39	31	25	38	30	25	37	30	25	35	29	24	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	740	740	740
5°	744	784	823
10°	739	889	975
15°	725	982	1100
20°	709	1051	1191
25°	690	1096	1250
30°	667	1120	1284
35°	641	1128	1292
40°	616	1124	1283
45°	592	1121	1263
50°	567	1124	1246
55°	546	1146	1241
60°	530	1190	1263
65°	515	1257	1313
70°	502	1359	1411
75°	489	1526	1554
80°	490	1805	1689
85°	543	2266	2049



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.1	2.2
10°-20°	192.3	7.6
20°-30°	321.9	12.7
30°-40°	403.1	15.9
40°-50°	422.9	16.6
50°-60°	399.6	15.7
60°-70°	349.8	13.8
70°-80°	270.2	10.6
80°-90°	126.1	5.0
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°	571.3	22.5
0°-40°	974.4	38.3
0°-60°	1797.0	70.7
0°-90°	2543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	550	550	550	550	550	
5°	551	551	580	602	609	52
15°	520	593	705	769	789	147
25°	465	597	738	814	842	214
35°	390	545	686	760	787	244
45°	311	462	589	646	664	240
55°	233	384	489	520	529	209
65°	162	315	395	406	412	160
75°	94	236	294	296	299	100
85°	35	124	147	136	133	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°	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3
2.5°	553.8	552.9	552.0	550.3	549.4	549.4	549.4	549.4	550.3	552.9	554.7
5°	551.1	551.1	549.4	548.5	549.4	552.0	556.4	563.5	570.5	580.2	588.1
7.5°	546.7	545.9	545.0	545.9	553.8	565.2	576.6	589.8	602.1	616.2	627.6
10°	540.6	539.7	540.6	547.6	563.5	581.9	598.6	615.3	632.0	650.5	666.3
12.5°	530.9	530.9	534.4	550.3	572.2	595.1	617.1	638.2	659.3	680.4	698.8
15°	520.4	521.3	530.0	552.9	580.2	606.5	632.0	656.6	681.2	705.0	725.2
17.5°	508.1	509.8	524.8	552.9	583.7	614.4	643.4	670.7	697.1	722.6	743.7
20°	494.9	496.6	518.6	551.1	585.4	618.8	649.6	679.5	707.6	734.0	756.0
22.5°	479.9	482.6	510.7	545.9	583.7	619.7	651.4	682.1	711.1	739.3	761.2
25°	465.0	468.5	501.0	538.8	578.4	615.3	648.7	679.5	710.2	738.4	760.4
27.5°	446.5	452.7	489.6	528.3	570.5	607.4	640.8	673.3	704.1	732.2	754.2
30°	429.0	436.9	475.5	516.0	559.1	596.0	629.4	661.9	692.7	720.8	742.8
32.5°	409.6	419.3	459.7	501.9	544.1	580.2	614.4	647.0	677.7	705.9	726.9
35°	390.3	401.7	443.0	486.1	527.4	563.5	596.9	629.4	659.3	686.5	706.7
37.5°	370.9	383.3	424.6	468.5	508.1	543.2	576.6	608.3	639.0	664.5	684.8
40°	350.7	364.8	406.1	448.3	487.9	522.1	555.5	586.3	615.3	639.9	659.3
42.5°	330.5	346.3	387.6	429.0	466.8	500.2	533.6	563.5	590.7	614.4	632.9
45°	311.2	327.0	367.4	408.7	445.7	479.1	511.6	540.6	567.0	588.9	606.5
47.5°	291.0	308.5	349.0	389.4	424.6	458.0	489.6	516.9	542.4	562.6	579.3
50°	270.7	290.1	329.6	369.2	405.2	437.8	468.5	494.9	518.6	537.1	552.9
52.5°	251.4	271.6	312.1	350.7	385.9	418.4	448.3	473.8	495.8	512.5	526.5
55°	232.9	254.0	294.5	332.3	368.3	400.0	428.1	452.7	472.9	488.7	501.0
57.5°	214.5	237.3	277.8	316.4	350.7	382.4	409.6	432.5	450.9	465.9	476.4
60°	196.9	220.6	261.9	299.7	334.0	364.8	391.2	412.3	429.8	442.1	450.1
62.5°	178.4	203.9	245.2	283.9	318.2	347.2	372.7	392.9	407.9	418.4	425.4
65°	161.7	187.2	229.4	268.1	300.6	328.8	352.5	371.8	385.9	394.7	399.1
67.5°	145.0	171.4	213.6	251.4	283.0	310.3	332.3	350.7	363.0	370.1	373.6
70°	127.5	155.6	196.9	233.8	264.6	290.1	312.1	327.9	339.3	345.5	347.2
72.5°	109.9	138.9	180.2	216.2	245.2	269.9	290.1	305.0	315.6	320.0	320.8
75°	94.1	121.3	161.7	196.0	224.1	247.0	267.2	281.3	289.2	293.6	294.5
77.5°	78.2	104.6	143.3	175.8	200.4	222.4	241.7	254.9	262.8	266.3	266.3
80°	63.3	87.9	123.1	152.1	175.8	196.0	213.6	226.8	233.8	232.9	229.4
82.5°	49.2	72.1	102.0	127.5	148.6	167.0	184.6	192.5	195.1	192.5	189.9
85°	35.2	53.6	77.4	98.5	116.9	131.0	142.4	148.6	149.4	146.8	144.2
87.5°	20.2	29.9	44.0	59.8	69.4	78.2	87.9	91.4	91.4	93.2	87.9
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°	550.3	550.3	550.3	550.3	550.3	550.3	550.3	550.3
2.5°	553.8	554.7	554.7	556.4	557.3	557.3	556.4	554.7
5°	590.7	596.0	599.5	604.8	607.4	610.0	610.9	609.2
7.5°	633.8	641.7	648.7	656.6	660.1	662.8	666.3	663.7
10°	675.1	685.6	694.4	703.2	708.5	712.0	714.6	713.8
12.5°	710.2	722.6	732.2	741.0	748.0	753.3	756.0	756.0
15°	737.5	751.6	763.9	773.5	780.6	785.8	789.4	789.4
17.5°	758.6	772.7	785.8	795.5	802.5	809.6	813.1	814.9
20°	770.9	785.8	799.0	809.6	817.5	825.4	828.9	831.6
22.5°	777.1	792.0	806.1	817.5	826.3	833.3	837.7	839.5
25°	777.1	792.9	807.8	819.2	828.0	835.9	840.3	842.1
27.5°	771.8	788.5	803.4	814.0	823.6	831.6	835.9	837.7
30°	761.2	777.9	792.9	803.4	813.1	820.1	824.5	826.3
32.5°	744.5	762.1	776.2	786.7	796.4	803.4	807.8	808.7
35°	725.2	741.9	755.1	765.6	775.3	781.4	785.0	786.7
37.5°	701.5	717.3	730.5	740.1	748.9	756.0	759.5	760.4
40°	676.0	690.9	702.3	711.1	719.9	726.1	729.6	730.5
42.5°	648.7	662.8	673.3	681.2	689.2	694.4	697.1	697.9
45°	620.6	632.9	642.6	649.6	656.6	661.0	663.7	663.7
47.5°	592.5	603.9	611.8	617.1	623.2	627.6	630.3	629.4
50°	564.3	574.0	580.2	585.4	590.7	593.3	596.0	595.1
52.5°	536.2	545.0	548.5	552.9	557.3	559.9	562.6	560.8
55°	509.0	515.1	518.6	522.1	525.7	528.3	530.0	529.2
57.5°	482.6	487.0	489.6	493.1	495.8	497.5	499.3	498.4
60°	454.5	458.0	459.7	463.2	465.9	467.6	469.4	469.4
62.5°	428.1	430.7	431.6	435.1	436.9	438.6	441.3	440.4
65°	400.0	402.6	404.3	407.0	408.7	410.5	413.1	412.3
67.5°	373.6	376.2	377.1	379.7	382.4	385.0	385.9	385.9
70°	347.2	349.0	349.8	353.4	354.2	356.9	358.6	358.6
72.5°	320.8	321.7	323.5	326.1	327.9	329.6	331.4	330.5
75°	292.7	294.5	295.4	297.1	297.1	298.9	298.9	298.9
77.5°	263.7	261.1	260.2	259.3	258.4	258.4	258.4	257.6
80°	224.1	221.5	220.6	218.9	218.9	218.9	218.9	218.0
82.5°	185.5	182.0	180.2	179.3	178.4	178.4	178.4	177.6
85°	140.6	137.1	136.2	135.4	135.4	134.5	133.6	132.7
87.5°	87.0	84.4	83.5	81.7	82.6	80.9	80.9	80.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)