

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: P188484

Luminaire Tested: **24SR-LD2-34-C-UNV-L840-CD1-MR-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188484
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-L840-CD1-MR-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH MEDIUM RED SKYTRIM.

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

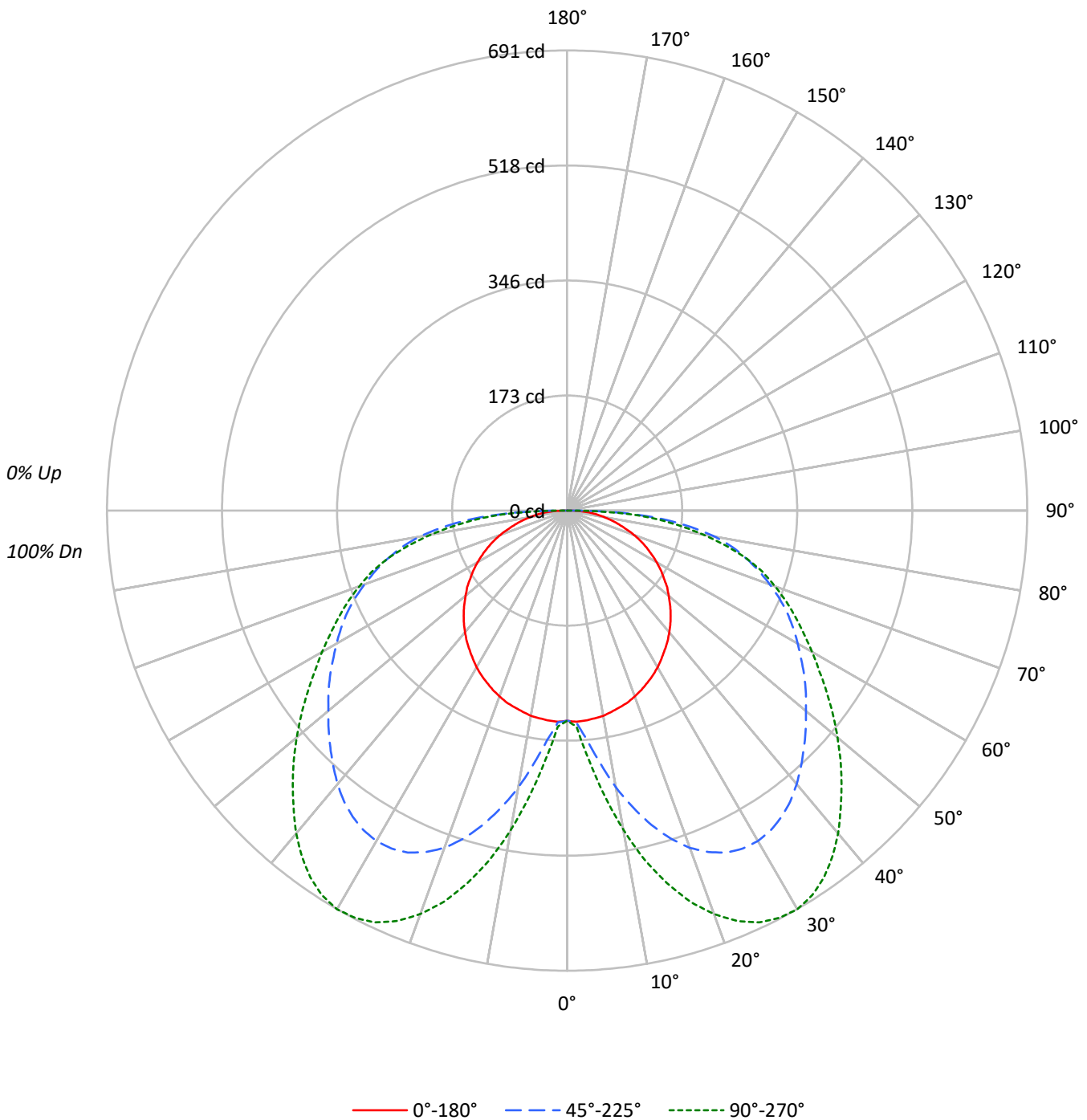
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	425	425	425
5°	427	467	509
10°	427	577	665
15°	426	681	807
20°	425	772	923
25°	423	841	1013
30°	422	890	1074
35°	420	922	1104
40°	419	942	1112
45°	418	957	1109
50°	417	980	1109
55°	416	1020	1117
60°	417	1076	1144
65°	420	1162	1205
70°	420	1273	1305
75°	420	1449	1454
80°	438	1743	1605
85°	513	2188	1979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.0	1.6
10°-20°	132.7	6.2
20°-30°	244.0	11.4
30°-40°	325.3	15.2
40°-50°	356.4	16.7
50°-60°	350.4	16.4
60°-70°	318.0	14.9
70°-80°	253.2	11.9
80°-90°	120.0	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°	411.7	19.3
0°-40°	737.0	34.5
0°-60°	1443.8	67.6
0°-90°	2135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	316	316	316	316	316	
5°	316	319	346	368	377	30
15°	306	379	489	557	579	86
25°	285	420	567	651	682	132
35°	256	413	561	644	672	160
45°	220	372	503	564	583	170
55°	178	329	435	468	476	159
65°	132	284	365	373	378	130
75°	81	222	279	277	280	85
85°	33	120	142	128	128	34
90°	0	0	0	0	0	



TEST NUMBER: P188484

CATALOG NUMBER: 24SR-LD2-34-C-UNV-L840-CD1-MR-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	315.6	315.6	315.6	315.6	315.6	315.6	315.6	315.6	315.6	315.6	315.6
2.5°	317.4	317.4	316.5	316.5	316.5	315.6	315.6	316.5	317.4	318.3	319.2
5°	316.5	316.5	316.5	316.5	317.4	321.0	325.5	331.7	337.1	346.1	350.6
7.5°	314.7	314.7	315.6	318.3	325.5	335.3	347.0	360.4	371.2	382.8	393.6
10°	312.9	312.9	314.7	323.7	338.0	355.1	372.1	389.1	404.4	422.3	435.7
12.5°	309.3	309.3	314.7	330.8	352.4	373.9	395.4	417.8	437.5	456.4	475.2
15°	305.7	305.7	316.5	338.9	365.8	391.8	416.9	442.9	466.2	488.6	508.4
17.5°	302.2	303.1	319.2	347.9	377.5	408.0	437.5	465.3	491.3	516.4	538.9
20°	296.8	298.6	321.0	354.2	387.3	421.4	452.8	483.3	512.0	538.9	562.2
22.5°	291.4	295.0	321.9	358.6	395.4	432.2	465.3	496.7	527.2	555.0	579.2
25°	285.1	289.6	322.8	361.3	400.8	438.4	473.4	506.6	538.0	566.7	590.9
27.5°	278.8	285.1	321.0	361.3	402.6	442.0	477.0	511.1	544.2	572.0	598.0
30°	271.7	279.7	318.3	360.4	402.6	441.1	477.0	512.0	544.2	572.9	598.0
32.5°	263.6	274.4	313.8	356.8	399.0	438.4	474.3	508.4	540.6	569.3	593.5
35°	255.5	267.2	308.4	351.5	393.6	432.2	467.1	501.2	532.6	561.3	585.5
37.5°	247.5	260.9	302.2	345.2	385.5	423.2	458.2	492.2	522.7	550.5	572.9
40°	238.5	252.8	294.1	336.2	376.6	412.4	447.4	479.7	509.3	536.2	557.7
42.5°	229.5	244.8	285.1	327.3	365.8	401.7	435.7	467.1	495.8	520.0	539.8
45°	219.7	235.8	276.2	316.5	354.2	390.0	423.2	452.8	480.6	503.0	520.9
47.5°	209.8	226.8	266.3	306.6	343.4	378.4	410.6	439.3	464.4	486.0	503.0
50°	199.0	217.0	256.4	295.9	332.6	366.7	398.1	425.0	449.2	468.0	484.2
52.5°	189.2	208.0	246.6	286.0	321.9	355.9	386.4	411.5	434.0	451.9	465.3
55°	177.5	198.1	237.6	276.2	312.0	345.2	373.9	398.1	418.7	434.9	446.5
57.5°	166.8	188.3	227.7	266.3	301.3	334.4	361.3	384.6	402.6	416.9	427.7
60°	155.1	178.4	217.9	256.4	291.4	323.7	349.7	371.2	388.2	399.9	408.8
62.5°	143.5	167.7	208.9	246.6	280.6	311.1	336.2	355.9	371.2	382.8	388.2
65°	131.8	156.9	198.1	236.7	269.9	298.6	322.8	341.6	355.1	364.9	368.5
67.5°	119.2	146.1	187.4	224.1	257.3	285.1	307.5	325.5	337.1	345.2	347.0
70°	106.7	133.6	174.8	211.6	243.0	269.0	291.4	306.6	318.3	323.7	325.5
72.5°	93.2	121.0	162.3	197.3	226.8	252.8	272.6	288.7	298.6	302.2	302.2
75°	80.7	107.6	147.9	181.1	209.8	234.0	252.8	267.2	276.2	278.8	277.9
77.5°	68.1	95.0	132.7	164.1	190.1	212.5	230.4	243.9	251.9	254.6	253.7
80°	56.5	81.6	114.8	144.4	167.7	188.3	204.4	218.8	225.9	225.0	219.7
82.5°	44.8	66.3	95.9	121.9	142.6	161.4	177.5	186.5	189.2	186.5	181.1
85°	33.2	50.2	74.4	95.0	112.1	127.3	137.2	143.5	144.4	141.7	137.2
87.5°	19.7	29.6	43.9	56.5	69.0	76.2	81.6	86.1	87.0	84.3	82.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188484

CATALOG NUMBER: 24SR-LD2-34-C-UNV-L840-CD1-MR-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	315.6	315.6	315.6	315.6	315.6	315.6	315.6	315.6
2.5°	320.1	321.0	321.9	323.7	322.8	323.7	323.7	324.6
5°	356.8	362.2	365.8	371.2	371.2	373.9	374.8	376.6
7.5°	401.7	408.8	416.9	425.0	425.9	430.4	432.2	432.2
10°	447.4	457.3	467.1	476.1	478.8	484.2	486.9	486.9
12.5°	488.6	499.4	512.9	522.7	526.3	532.6	536.2	537.1
15°	524.5	538.0	551.4	562.2	568.4	574.7	578.3	579.2
17.5°	555.0	571.1	585.5	596.2	603.4	610.6	615.1	616.0
20°	579.2	597.1	611.5	623.1	631.2	640.2	643.8	644.7
22.5°	598.0	615.1	631.2	643.8	652.7	661.7	666.2	667.1
25°	610.6	628.5	644.7	658.1	668.0	676.0	680.5	682.3
27.5°	617.8	636.6	652.7	665.3	675.1	684.1	688.6	689.5
30°	618.7	637.5	653.6	666.2	676.0	685.0	689.5	691.3
32.5°	614.2	633.0	648.2	660.8	670.7	678.7	683.2	685.0
35°	605.2	623.1	638.4	650.0	659.0	666.2	671.6	672.4
37.5°	592.7	609.7	623.1	633.9	642.9	650.0	654.5	654.5
40°	575.6	591.8	603.4	613.3	622.2	627.6	633.0	633.0
42.5°	556.8	572.0	582.8	591.8	598.0	604.3	607.9	607.9
45°	537.1	549.6	560.4	567.5	573.8	578.3	582.8	582.8
47.5°	517.3	528.1	536.2	543.3	548.7	553.2	556.8	556.8
50°	496.7	506.6	512.9	519.1	523.6	527.2	529.9	529.9
52.5°	476.1	484.2	488.6	494.0	497.6	501.2	503.0	503.0
55°	456.4	461.7	465.3	469.8	472.5	474.3	476.1	476.1
57.5°	434.9	438.4	442.0	444.7	446.5	448.3	450.1	449.2
60°	413.3	416.0	418.7	420.5	422.3	424.1	425.0	425.0
62.5°	391.8	392.7	393.6	397.2	399.0	399.9	400.8	400.8
65°	370.3	370.3	371.2	373.9	375.7	377.5	378.4	378.4
67.5°	347.0	347.9	348.8	351.5	352.4	354.2	355.9	355.9
70°	323.7	324.6	324.6	327.3	328.2	329.9	331.7	331.7
72.5°	301.3	301.3	301.3	303.1	304.8	306.6	308.4	308.4
75°	276.2	276.2	276.2	277.9	277.9	278.8	280.6	279.7
77.5°	249.3	246.6	243.9	243.0	243.0	243.9	244.8	244.8
80°	214.3	210.7	208.9	207.1	206.2	207.1	208.0	207.1
82.5°	177.5	173.0	170.4	169.5	169.5	169.5	170.4	168.6
85°	134.5	130.0	128.2	128.2	127.3	127.3	127.3	128.2
87.5°	80.7	78.0	75.3	76.2	75.3	74.4	75.3	77.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)