

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: P188683

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33587)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-34-C-UNV-L835-CD1-TB-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2287.0 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 2.07 / 1.9
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

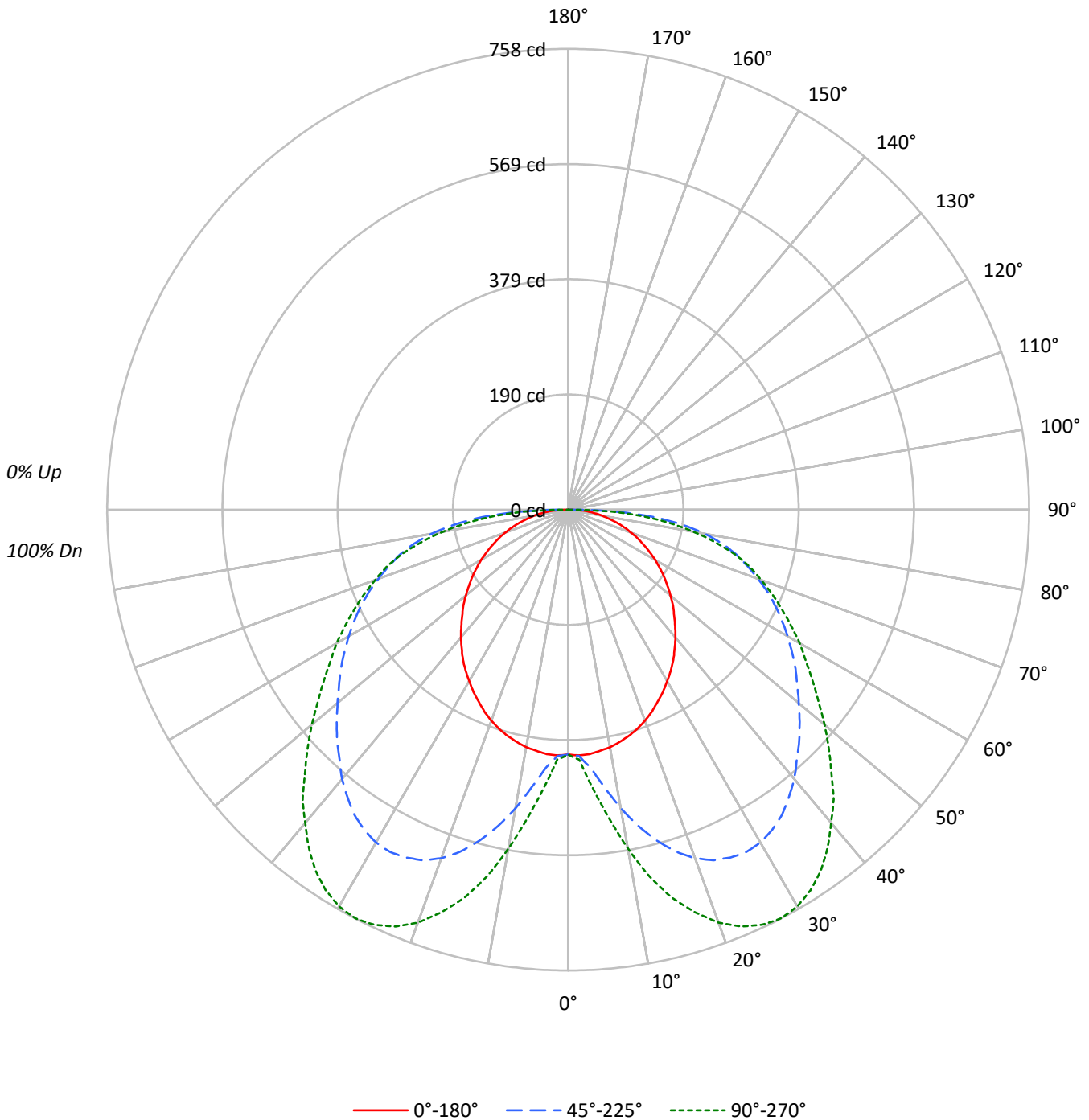
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	91	103	98	93	89	94	90	86	90	86	83	86	83	81	79
2	95	86	78	71	93	84	77	70	80	74	69	77	72	67	74	69	65	63
3	86	74	65	58	83	73	64	57	69	62	56	67	60	55	64	59	54	52
4	78	65	55	48	76	64	54	47	61	53	47	59	52	46	56	50	45	43
5	72	58	48	40	69	56	47	40	54	46	40	52	45	39	50	44	39	36
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	31
7	61	46	37	30	59	45	37	30	44	36	30	42	35	30	41	34	29	27
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	542	542	542
5°	545	576	620
10°	542	681	774
15°	536	785	921
20°	529	874	1035
25°	517	937	1118
30°	505	982	1171
35°	495	1007	1190
40°	482	1016	1181
45°	468	1022	1164
50°	460	1036	1152
55°	452	1070	1151
60°	445	1121	1183
65°	437	1198	1234
70°	432	1307	1328
75°	429	1490	1476
80°	442	1771	1621
85°	489	2198	1900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	1.9
10°-20°	154.9	6.8
20°-30°	275.9	12.1
30°-40°	357.7	15.6
40°-50°	381.4	16.7
50°-60°	366.9	16.0
60°-70°	328.3	14.4
70°-80°	258.5	11.3
80°-90°	120.5	5.3
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°	473.6	20.7
0°-40°	831.3	36.4
0°-60°	1579.7	69.1
0°-90°	2287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	403	403	403	403	403	
5°	404	408	426	449	459	38
15°	385	458	564	637	661	109
25°	348	487	631	726	753	161
35°	302	463	613	701	724	188
45°	246	404	537	600	612	191
55°	192	347	456	486	491	172
65°	137	294	376	384	388	136
75°	83	226	287	283	284	87
85°	32	120	142	127	123	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°	402.7	402.7	402.7	402.7	402.7	402.7	402.7	402.7	402.7	402.7	402.7
2.5°	404.4	404.4	403.5	403.5	404.4	404.4	404.4	404.4	405.3	405.3	406.2
5°	403.5	402.7	402.7	404.4	407.1	409.7	412.3	416.7	420.2	426.4	431.7
7.5°	400.0	400.0	401.8	406.2	412.3	421.1	430.8	441.3	451.0	460.7	472.1
10°	396.5	396.5	400.9	408.8	421.1	436.9	452.8	468.6	483.5	498.5	510.8
12.5°	391.2	392.1	399.1	413.2	433.4	455.4	475.6	495.9	516.1	532.8	551.2
15°	385.1	386.8	397.4	418.5	444.9	471.2	495.9	520.5	543.3	563.5	582.9
17.5°	378.0	380.7	395.6	422.9	453.7	483.5	514.3	542.4	567.1	589.9	611.9
20°	369.3	373.6	393.9	426.4	460.7	495.0	527.5	557.4	585.5	610.1	634.8
22.5°	359.6	364.9	390.4	427.3	465.1	502.0	538.1	568.8	598.7	624.2	649.7
25°	348.2	356.1	386.8	426.4	466.8	506.4	543.3	575.0	605.7	631.2	659.4
27.5°	337.6	346.4	380.7	422.9	465.1	506.4	543.3	576.7	608.4	634.8	662.0
30°	325.3	336.7	374.5	417.6	460.7	502.0	539.8	573.2	604.0	632.1	660.3
32.5°	313.9	326.2	364.9	408.8	452.8	494.1	532.8	565.3	596.1	624.2	651.5
35°	301.6	313.9	354.3	400.0	442.2	483.5	520.5	553.9	583.8	612.8	638.3
37.5°	287.5	301.6	342.9	387.7	429.0	470.4	506.4	538.9	568.8	596.1	620.7
40°	274.3	289.2	329.7	374.5	415.8	455.4	490.6	521.3	550.4	578.5	600.5
42.5°	260.2	276.1	317.4	360.5	400.9	438.7	472.1	503.8	531.9	556.5	578.5
45°	246.2	263.8	304.2	346.4	385.1	422.9	456.3	485.3	512.6	537.2	555.6
47.5°	233.9	251.4	290.1	332.3	371.0	407.1	439.6	467.7	494.1	516.1	534.5
50°	219.8	237.4	276.9	318.3	356.1	392.1	422.9	450.1	474.8	495.0	512.6
52.5°	205.7	225.1	263.8	305.1	342.9	377.2	407.9	434.3	456.3	474.8	489.7
55°	192.5	211.9	251.4	291.9	329.7	364.0	393.0	418.5	439.6	456.3	467.7
57.5°	178.5	199.6	240.0	280.5	317.4	349.9	378.9	402.7	422.0	436.1	445.7
60°	165.3	187.3	228.6	268.1	305.1	337.6	364.9	387.7	404.4	416.7	424.6
62.5°	151.2	175.0	216.3	255.8	291.9	324.4	349.9	371.0	386.8	396.5	401.8
65°	137.2	162.6	204.0	243.5	278.7	309.5	334.1	353.4	367.5	376.3	380.7
67.5°	124.0	150.3	191.7	230.3	264.6	293.6	317.4	335.8	348.2	355.2	356.9
70°	109.9	137.2	178.5	216.3	249.7	276.9	299.8	315.6	327.1	332.3	334.1
72.5°	96.7	124.0	164.4	201.3	233.0	258.5	280.5	296.3	306.0	309.5	309.5
75°	82.6	109.9	149.5	184.6	213.6	239.1	259.4	273.4	282.2	286.6	284.9
77.5°	68.6	95.8	133.6	166.2	192.5	215.4	235.6	248.8	257.6	260.2	258.5
80°	57.1	81.8	115.2	145.1	169.7	190.8	209.2	222.4	230.3	228.6	224.2
82.5°	44.0	66.8	95.8	121.3	143.3	163.5	181.1	191.7	193.4	189.9	184.6
85°	31.7	49.2	73.0	93.2	112.5	127.5	139.8	146.8	146.8	142.4	138.9
87.5°	18.5	29.0	42.2	56.3	65.1	74.7	84.4	86.2	86.2	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°	402.7	402.7	402.7	402.7	402.7	402.7	402.7	402.7
2.5°	408.8	409.7	410.6	411.5	412.3	412.3	412.3	411.5
5°	436.9	442.2	446.6	451.9	453.7	455.4	457.2	458.9
7.5°	481.8	488.8	495.9	502.9	507.3	512.6	510.8	510.8
10°	524.9	538.1	546.0	554.8	559.2	564.4	567.1	566.2
12.5°	567.1	582.0	593.4	601.4	608.4	613.7	615.4	618.1
15°	603.1	618.1	632.1	641.8	650.6	655.9	659.4	661.1
17.5°	633.0	647.9	663.8	676.1	684.0	691.0	692.8	694.5
20°	655.0	674.3	689.3	702.5	711.2	718.3	721.8	722.7
22.5°	672.6	691.0	707.7	720.9	730.6	738.5	742.0	742.0
25°	682.2	701.6	719.2	733.2	742.9	749.9	753.4	753.4
27.5°	685.8	706.0	722.7	736.7	747.3	754.3	757.0	757.8
30°	683.1	703.3	720.0	733.2	743.8	749.9	752.6	753.4
32.5°	674.3	694.5	710.4	722.7	732.3	739.4	742.0	742.0
35°	660.3	678.7	694.5	706.9	715.6	720.9	724.4	724.4
37.5°	641.8	660.3	674.3	684.9	692.8	698.9	700.7	700.7
40°	620.7	636.5	649.7	660.3	667.3	671.7	673.4	672.6
42.5°	597.0	611.9	622.5	631.2	637.4	641.8	644.4	646.2
45°	572.3	586.4	596.1	603.1	607.5	610.1	612.8	611.9
47.5°	550.4	559.2	567.9	573.2	577.6	580.3	581.1	581.1
50°	524.9	532.8	539.8	544.2	546.8	548.6	548.6	550.4
52.5°	499.4	506.4	511.7	516.1	517.8	518.7	519.6	518.7
55°	476.5	480.9	484.4	487.9	489.7	490.6	492.3	490.6
57.5°	452.8	456.3	460.7	461.6	463.3	463.3	464.2	463.3
60°	429.0	431.7	433.4	434.3	436.9	437.8	437.8	439.6
62.5°	405.3	406.2	408.8	409.7	410.6	412.3	414.1	413.2
65°	381.6	382.4	383.3	385.1	386.8	388.6	388.6	387.7
67.5°	356.9	357.8	358.7	360.5	362.2	362.2	363.1	363.1
70°	333.2	333.2	334.1	335.0	336.7	337.6	338.5	337.6
72.5°	308.6	308.6	308.6	309.5	310.3	312.1	313.0	313.0
75°	283.1	283.1	283.1	282.2	283.1	284.9	284.0	284.0
77.5°	255.0	252.3	249.7	247.9	248.8	247.9	247.9	247.9
80°	219.8	215.4	211.9	210.1	209.2	210.1	209.2	209.2
82.5°	181.1	176.7	173.2	170.6	171.4	169.7	170.6	168.8
85°	134.5	131.0	127.5	125.7	126.6	126.6	125.7	123.1
87.5°	79.1	74.7	73.9	73.0	73.9	73.0	70.3	71.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)