

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: P188538

Luminaire Tested: **24SR-LD2-48-C-UNV-L835-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188538
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-LD2-48-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: 2959.0 lumens
Efficiency: N/A
Efficacy: 77.5 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

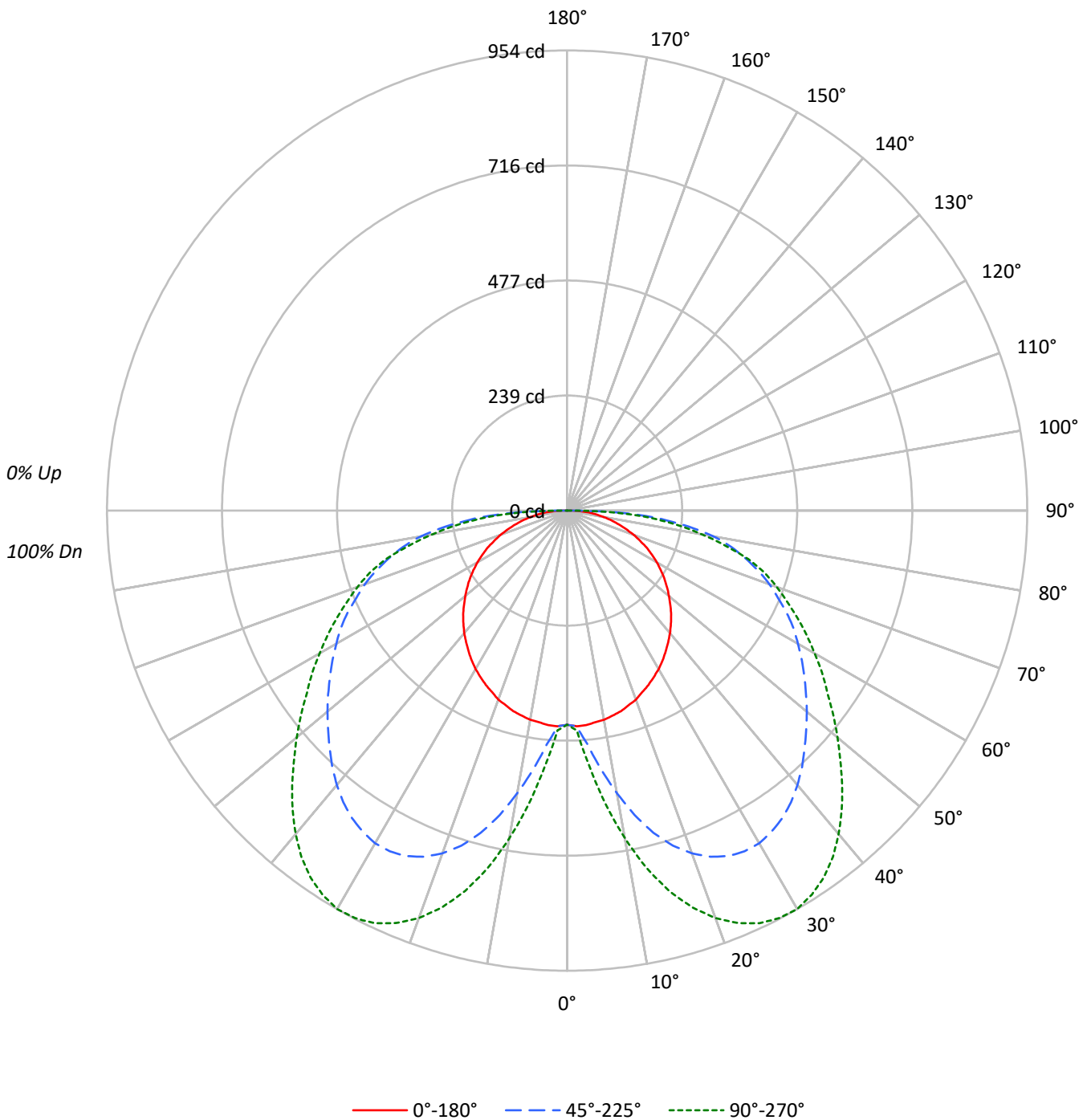
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	597	597	597
5°	603	657	720
10°	602	813	943
15°	600	963	1137
20°	597	1083	1287
25°	592	1173	1401
30°	589	1237	1482
35°	585	1278	1524
40°	583	1304	1538
45°	580	1325	1534
50°	577	1358	1532
55°	578	1407	1545
60°	577	1487	1595
65°	578	1600	1677
70°	576	1756	1818
75°	577	1991	2022
80°	595	2390	2202
85°	696	2975	2674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.7
10°-20°	186.8	6.3
20°-30°	339.8	11.5
30°-40°	450.8	15.2
40°-50°	493.9	16.7
50°-60°	485.4	16.4
60°-70°	440.3	14.9
70°-80°	349.0	11.8
80°-90°	163.6	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°	576.0	19.5
0°-40°	1026.8	34.7
0°-60°	2006.1	67.8
0°-90°	2959.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	444	444	444	444	444	
5°	446	449	487	521	533	42
15°	430	535	692	785	816	121
25°	399	590	790	902	944	184
35°	356	576	778	888	928	223
45°	305	518	696	780	806	235
55°	246	455	600	647	659	220
65°	182	393	502	517	527	179
75°	111	304	383	384	389	117
85°	45	163	193	173	173	46
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°	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9
2.5°	447.6	446.4	446.4	446.4	445.1	445.1	445.1	446.4	446.4	447.6	450.0
5°	446.4	445.1	445.1	445.1	447.6	451.2	458.5	467.1	476.8	486.6	497.6
7.5°	442.7	442.7	442.7	446.4	457.3	472.0	490.3	508.5	524.4	541.5	557.3
10°	440.3	440.3	442.7	454.9	476.8	501.2	525.6	550.0	572.0	595.1	617.1
12.5°	435.4	435.4	442.7	465.9	496.4	528.1	558.6	589.0	618.3	646.4	670.7
15°	430.5	430.5	446.4	479.3	515.9	553.7	590.3	625.6	659.8	691.5	719.5
17.5°	423.2	424.4	448.8	489.0	532.9	575.6	615.9	656.1	692.7	728.1	757.3
20°	417.1	419.5	451.2	497.6	546.4	593.9	639.0	680.5	719.5	756.1	787.8
22.5°	407.3	412.2	452.5	503.7	556.1	607.3	653.7	697.6	739.0	776.8	808.6
25°	398.8	404.9	451.2	506.1	563.4	615.9	663.4	708.6	751.2	790.3	823.2
27.5°	389.0	398.8	450.0	507.3	565.9	619.5	668.3	714.7	757.3	796.4	830.5
30°	379.3	391.5	446.4	506.1	564.6	618.3	667.1	714.7	757.3	796.4	829.3
32.5°	368.3	381.7	439.0	500.0	559.8	612.2	661.0	707.3	751.2	789.0	822.0
35°	356.1	372.0	430.5	491.5	550.0	602.5	650.0	696.4	739.0	778.1	809.8
37.5°	343.9	362.2	420.7	481.7	539.0	590.3	636.6	682.9	724.4	762.2	792.7
40°	331.7	351.2	409.8	469.5	525.6	575.6	622.0	667.1	706.1	742.7	770.8
42.5°	318.3	340.3	397.6	456.1	509.8	558.6	604.9	648.8	686.6	720.7	747.6
45°	304.9	326.8	384.2	441.5	495.1	541.5	586.6	629.3	664.7	696.4	722.0
47.5°	290.3	314.6	372.0	426.8	478.1	525.6	569.5	608.6	643.9	672.0	696.4
50°	275.6	301.2	357.3	412.2	462.2	508.5	551.2	589.0	622.0	648.8	669.5
52.5°	261.0	287.8	343.9	397.6	447.6	492.7	534.2	569.5	600.0	624.4	645.1
55°	246.3	274.4	330.5	382.9	432.9	476.8	517.1	550.0	579.3	600.0	617.1
57.5°	230.5	261.0	317.1	369.5	418.3	462.2	500.0	531.7	558.6	576.8	591.5
60°	214.6	246.3	302.4	356.1	403.7	446.4	482.9	513.4	536.6	552.5	565.9
62.5°	197.6	231.7	289.0	341.5	389.0	430.5	464.6	491.5	514.6	529.3	536.6
65°	181.7	217.1	274.4	326.8	373.2	412.2	445.1	470.7	490.3	502.5	508.5
67.5°	163.4	201.2	258.5	311.0	354.9	392.7	423.2	447.6	464.6	473.2	478.1
70°	146.3	185.4	241.5	292.7	334.2	370.7	400.0	423.2	437.8	446.4	447.6
72.5°	128.1	168.3	224.4	273.2	313.4	347.6	375.6	396.4	408.5	415.9	417.1
75°	111.0	150.0	203.7	250.0	287.8	319.5	346.3	365.9	378.1	382.9	382.9
77.5°	93.9	130.5	181.7	225.6	261.0	290.3	314.6	334.2	343.9	348.8	348.8
80°	76.8	112.2	158.5	198.8	230.5	257.3	281.7	298.8	308.5	308.5	301.2
82.5°	61.0	91.5	131.7	168.3	195.1	219.5	242.7	253.7	256.1	253.7	247.6
85°	45.1	69.5	102.4	130.5	154.9	172.0	186.6	193.9	195.1	192.7	187.8
87.5°	25.6	40.2	58.5	76.8	92.7	101.2	113.4	115.9	115.9	119.5	113.4
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°	443.9	443.9	443.9	443.9	443.9	443.9	443.9	443.9
2.5°	451.2	452.5	452.5	456.1	456.1	457.3	456.1	456.1
5°	504.9	509.8	517.1	524.4	526.8	531.7	530.5	532.9
7.5°	569.5	579.3	590.3	600.0	604.9	609.8	611.0	614.6
10°	634.2	646.4	659.8	673.2	680.5	684.2	689.0	690.3
12.5°	690.3	708.6	722.0	736.6	746.4	751.2	756.1	758.6
15°	741.5	759.8	776.8	792.7	802.5	809.8	814.7	815.9
17.5°	780.5	801.2	819.5	836.6	846.4	854.9	859.8	862.2
20°	811.0	834.2	852.5	869.5	880.5	890.3	897.6	898.8
22.5°	832.9	856.1	876.9	893.9	907.3	917.1	923.2	925.6
25°	848.8	873.2	893.9	911.0	924.4	935.4	941.5	943.9
27.5°	856.1	881.7	903.7	919.5	932.9	943.9	951.2	952.5
30°	857.3	881.7	903.7	920.8	934.2	945.1	951.2	953.7
32.5°	848.8	874.4	896.4	912.2	925.6	936.6	942.7	943.9
35°	836.6	859.8	880.5	896.4	909.8	919.5	925.6	928.1
37.5°	818.3	840.3	859.8	874.4	886.6	896.4	902.5	904.9
40°	796.4	817.1	835.4	848.8	859.8	868.3	873.2	875.6
42.5°	770.8	790.3	807.3	818.3	829.3	836.6	840.3	842.7
45°	743.9	762.2	775.6	785.4	795.1	801.2	804.9	806.1
47.5°	715.9	731.7	742.7	751.2	758.6	764.7	768.3	768.3
50°	687.8	701.2	709.8	718.3	724.4	728.1	730.5	731.7
52.5°	659.8	670.7	676.8	684.2	689.0	692.7	695.1	695.1
55°	630.5	639.0	643.9	650.0	654.9	657.3	659.8	658.6
57.5°	602.5	608.6	612.2	617.1	620.7	623.2	625.6	626.8
60°	573.2	578.1	579.3	584.2	587.8	590.3	591.5	592.7
62.5°	542.7	546.4	548.8	551.2	554.9	557.3	558.6	559.8
65°	512.2	514.6	514.6	519.5	523.2	524.4	525.6	526.8
67.5°	480.5	481.7	482.9	486.6	490.3	491.5	493.9	493.9
70°	448.8	448.8	450.0	453.7	457.3	458.5	461.0	462.2
72.5°	415.9	417.1	417.1	420.7	424.4	426.8	428.1	429.3
75°	381.7	381.7	382.9	384.2	385.4	386.6	386.6	389.0
77.5°	345.1	340.3	337.8	335.4	336.6	336.6	335.4	336.6
80°	293.9	287.8	284.2	282.9	284.2	282.9	282.9	284.2
82.5°	241.5	234.2	231.7	230.5	230.5	230.5	229.3	231.7
85°	181.7	176.8	174.4	172.0	173.2	173.2	172.0	173.2
87.5°	109.8	107.3	104.9	102.4	103.7	102.4	101.2	104.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)