

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: P188528

Luminaire Tested: **24SR-LD2-39-C-UNV-L835-CD1-PG-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188528
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-LD2-39-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: 2461.0 lumens
Efficiency: N/A
Efficacy: 77.1 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

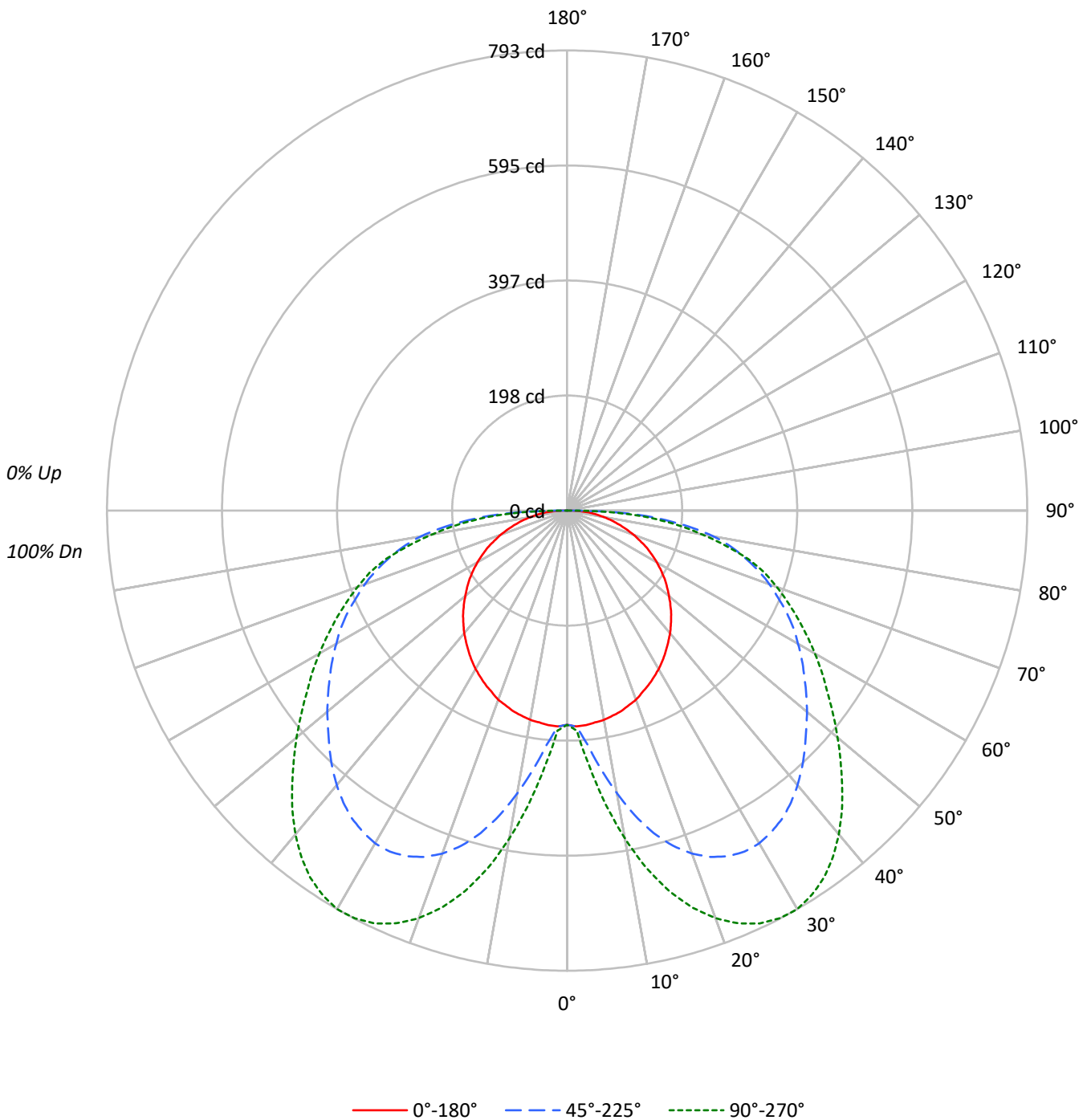
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	106	100	95	90	103	98	93	88	93	89	86	89	86	83	86	83	80	78					78			
2	95	85	77	70	92	83	76	69	80	73	68	76	71	66	73	69	65	62					62			
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	51					51			
4	78	64	54	47	75	63	54	46	60	52	46	58	51	45	55	49	44	42					42			
5	71	57	47	39	69	56	46	39	53	45	39	51	44	38	49	43	38	35					35			
6	65	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	30					30			
7	60	46	36	29	58	45	36	29	43	35	29	42	34	29	40	33	28	26					26			
8	56	41	32	26	54	41	32	26	39	31	25	38	31	25	37	30	25	23					23			
9	52	38	29	23	50	37	29	23	36	28	23	35	28	23	34	27	22	20					20			
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18					18			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	497	497	497
5°	501	547	599
10°	500	676	784
15°	499	801	945
20°	497	900	1070
25°	492	976	1166
30°	490	1029	1232
35°	487	1063	1268
40°	485	1085	1279
45°	483	1102	1276
50°	480	1129	1274
55°	481	1171	1285
60°	480	1237	1326
65°	481	1330	1395
70°	479	1460	1512
75°	480	1656	1682
80°	495	1988	1831
85°	579	2475	2223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.1	1.7
10°-20°	155.3	6.3
20°-30°	282.6	11.5
30°-40°	374.9	15.2
40°-50°	410.8	16.7
50°-60°	403.7	16.4
60°-70°	366.2	14.9
70°-80°	290.2	11.8
80°-90°	136.0	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°	479.1	19.5
0°-40°	854.0	34.7
0°-60°	1668.5	67.8
0°-90°	2461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	369	369	369	369	369	
5°	371	374	405	433	443	35
15°	358	445	575	653	679	101
25°	332	490	657	751	785	153
35°	296	479	647	739	772	185
45°	254	431	579	649	670	195
55°	205	378	499	538	548	183
65°	151	327	418	430	438	149
75°	92	253	318	319	324	98
85°	38	136	160	144	144	39
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°	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2
2.5°	372.2	371.2	371.2	371.2	370.2	370.2	370.2	371.2	371.2	372.2	374.3
5°	371.2	370.2	370.2	370.2	372.2	375.3	381.4	388.5	396.6	404.7	413.8
7.5°	368.2	368.2	368.2	371.2	380.4	392.5	407.7	423.0	436.1	450.3	463.5
10°	366.2	366.2	368.2	378.3	396.6	416.9	437.2	457.4	475.7	495.0	513.2
12.5°	362.1	362.1	368.2	387.5	412.8	439.2	464.5	489.9	514.2	537.6	557.9
15°	358.0	358.0	371.2	398.6	429.0	460.5	490.9	520.3	548.7	575.1	598.4
17.5°	352.0	353.0	373.3	406.7	443.2	478.7	512.2	545.7	576.1	605.5	629.9
20°	346.9	348.9	375.3	413.8	454.4	494.0	531.5	566.0	598.4	628.9	655.2
22.5°	338.8	342.8	376.3	418.9	462.5	505.1	543.7	580.2	614.7	646.1	672.5
25°	331.7	336.7	375.3	420.9	468.6	512.2	551.8	589.3	624.8	657.3	684.6
27.5°	323.6	331.7	374.3	421.9	470.6	515.3	555.8	594.4	629.9	662.3	690.7
30°	315.4	325.6	371.2	420.9	469.6	514.2	554.8	594.4	629.9	662.3	689.7
32.5°	306.3	317.5	365.1	415.9	465.6	509.2	549.7	588.3	624.8	656.2	683.6
35°	296.2	309.4	358.0	408.8	457.4	501.1	540.6	579.2	614.7	647.1	673.5
37.5°	286.0	301.2	349.9	400.6	448.3	490.9	529.5	568.0	602.5	633.9	659.3
40°	275.9	292.1	340.8	390.5	437.2	478.7	517.3	554.8	587.3	617.7	641.0
42.5°	264.7	283.0	330.7	379.3	424.0	464.5	503.1	539.6	571.0	599.4	621.8
45°	253.6	271.8	319.5	367.2	411.8	450.3	487.9	523.4	552.8	579.2	600.5
47.5°	241.4	261.7	309.4	355.0	397.6	437.2	473.7	506.1	535.5	558.9	579.2
50°	229.2	250.5	297.2	342.8	384.4	423.0	458.5	489.9	517.3	539.6	556.8
52.5°	217.1	239.4	286.0	330.7	372.2	409.8	444.3	473.7	499.0	519.3	536.6
55°	204.9	228.2	274.9	318.5	360.1	396.6	430.1	457.4	481.8	499.0	513.2
57.5°	191.7	217.1	263.7	307.3	347.9	384.4	415.9	442.2	464.5	479.8	491.9
60°	178.5	204.9	251.5	296.2	335.7	371.2	401.7	427.0	446.3	459.5	470.6
62.5°	164.3	192.7	240.4	284.0	323.6	358.0	386.4	408.8	428.0	440.2	446.3
65°	151.1	180.5	228.2	271.8	310.4	342.8	370.2	391.5	407.7	417.9	423.0
67.5°	135.9	167.4	215.0	258.6	295.2	326.6	352.0	372.2	386.4	393.5	397.6
70°	121.7	154.2	200.8	243.4	277.9	308.3	332.7	352.0	364.1	371.2	372.2
72.5°	106.5	140.0	186.6	227.2	260.7	289.1	312.4	329.6	339.8	345.9	346.9
75°	92.3	124.8	169.4	207.9	239.4	265.7	288.1	304.3	314.4	318.5	318.5
77.5°	78.1	108.5	151.1	187.6	217.1	241.4	261.7	277.9	286.0	290.1	290.1
80°	63.9	93.3	131.9	165.3	191.7	214.0	234.3	248.5	256.6	256.6	250.5
82.5°	50.7	76.1	109.5	140.0	162.3	182.6	201.8	211.0	213.0	211.0	205.9
85°	37.5	57.8	85.2	108.5	128.8	143.0	155.2	161.3	162.3	160.3	156.2
87.5°	21.3	33.5	48.7	63.9	77.1	84.2	94.3	96.4	96.4	99.4	94.3
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°	369.2	369.2	369.2	369.2	369.2	369.2	369.2	369.2
2.5°	375.3	376.3	376.3	379.3	379.3	380.4	379.3	379.3
5°	419.9	424.0	430.1	436.1	438.2	442.2	441.2	443.2
7.5°	473.7	481.8	490.9	499.0	503.1	507.1	508.2	511.2
10°	527.4	537.6	548.7	559.9	566.0	569.0	573.1	574.1
12.5°	574.1	589.3	600.5	612.6	620.7	624.8	628.9	630.9
15°	616.7	631.9	646.1	659.3	667.4	673.5	677.5	678.6
17.5°	649.1	666.4	681.6	695.8	703.9	711.0	715.1	717.1
20°	674.5	693.8	709.0	723.2	732.3	740.4	746.5	747.5
22.5°	692.8	712.0	729.3	743.5	754.6	762.7	767.8	769.8
25°	705.9	726.2	743.5	757.7	768.8	778.0	783.0	785.1
27.5°	712.0	733.3	751.6	764.8	775.9	785.1	791.1	792.2
30°	713.0	733.3	751.6	765.8	776.9	786.1	791.1	793.2
32.5°	705.9	727.2	745.5	758.7	769.8	779.0	784.0	785.1
35°	695.8	715.1	732.3	745.5	756.7	764.8	769.8	771.9
37.5°	680.6	698.8	715.1	727.2	737.4	745.5	750.6	752.6
40°	662.3	679.6	694.8	705.9	715.1	722.2	726.2	728.3
42.5°	641.0	657.3	671.5	680.6	689.7	695.8	698.8	700.9
45°	618.7	633.9	645.1	653.2	661.3	666.4	669.4	670.4
47.5°	595.4	608.6	617.7	624.8	630.9	636.0	639.0	639.0
50°	572.1	583.2	590.3	597.4	602.5	605.5	607.6	608.6
52.5°	548.7	557.9	562.9	569.0	573.1	576.1	578.1	578.1
55°	524.4	531.5	535.5	540.6	544.7	546.7	548.7	547.7
57.5°	501.1	506.1	509.2	513.2	516.3	518.3	520.3	521.3
60°	476.7	480.8	481.8	485.8	488.9	490.9	491.9	492.9
62.5°	451.4	454.4	456.4	458.5	461.5	463.5	464.5	465.6
65°	426.0	428.0	428.0	432.1	435.1	436.1	437.2	438.2
67.5°	399.6	400.6	401.7	404.7	407.7	408.8	410.8	410.8
70°	373.3	373.3	374.3	377.3	380.4	381.4	383.4	384.4
72.5°	345.9	346.9	346.9	349.9	353.0	355.0	356.0	357.0
75°	317.5	317.5	318.5	319.5	320.5	321.5	321.5	323.6
77.5°	287.0	283.0	281.0	278.9	279.9	279.9	278.9	279.9
80°	244.4	239.4	236.3	235.3	236.3	235.3	235.3	236.3
82.5°	200.8	194.7	192.7	191.7	191.7	191.7	190.7	192.7
85°	151.1	147.1	145.0	143.0	144.0	144.0	143.0	144.0
87.5°	91.3	89.3	87.2	85.2	86.2	85.2	84.2	87.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)