

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: P188392

Luminaire Tested: **22SR-LD2-29-C-UNV-L850-CD1-ST-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24794)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-29-C-UNV-L850-CD1-ST-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STRAW SKYTRIM.

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3027.0 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.62 / 1.55
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

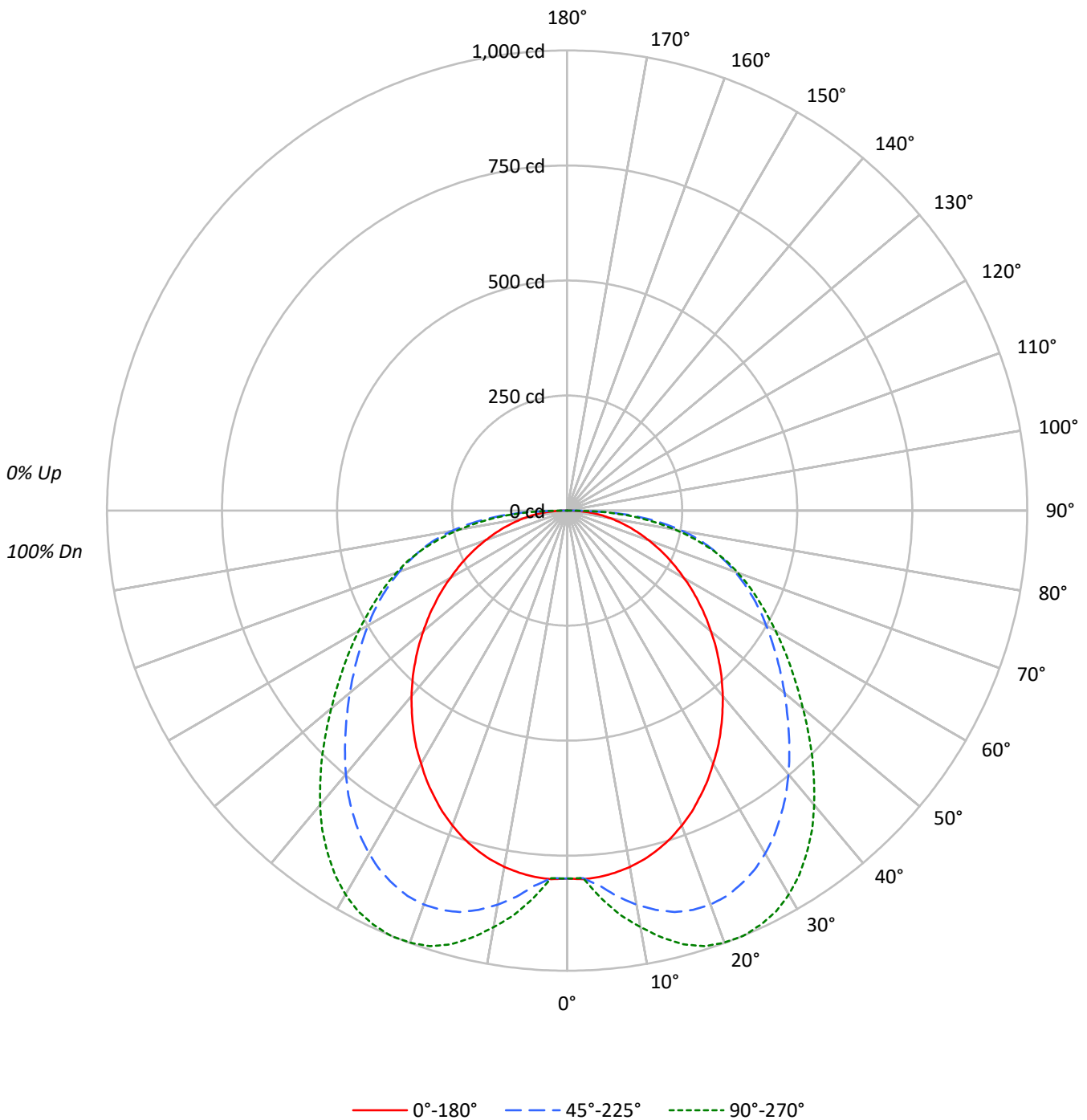
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	102	97	92	104	99	95	91	95	91	88	91	88	85	87	85	83	80				
2	97	87	80	74	94	86	79	73	82	76	71	79	74	69	75	71	68	65				
3	88	76	67	60	85	75	66	60	72	64	59	69	63	58	66	61	57	54				
4	80	67	58	51	78	66	57	50	63	56	49	61	54	49	59	53	48	46				
5	73	60	50	43	71	59	50	43	56	49	42	54	47	42	52	46	42	39				
6	68	54	44	38	66	53	44	37	51	43	37	49	42	37	47	41	36	34				
7	63	49	39	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30				
8	58	44	35	29	57	43	35	29	42	34	29	41	34	29	40	33	29	27				
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24				
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2343	2343	2343
5°	2352	2407	2486
10°	2339	2588	2734
15°	2314	2740	2960
20°	2271	2841	3115
25°	2214	2895	3212
30°	2147	2913	3260
35°	2082	2896	3247
40°	2013	2862	3195
45°	1936	2823	3119
50°	1860	2811	3050
55°	1788	2842	3030
60°	1719	2928	3065
65°	1662	3085	3177
70°	1615	3325	3381
75°	1591	3711	3674
80°	1600	4289	4026
85°	1688	5285	4760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	2.6
10°-20°	250.2	8.3
20°-30°	400.9	13.2
30°-40°	489.7	16.2
40°-50°	504.2	16.7
50°-60°	467.4	15.4
60°-70°	400.6	13.2
70°-80°	301.4	10.0
80°-90°	133.1	4.4
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°	730.6	24.1
0°-40°	1220.3	40.3
0°-60°	2191.9	72.4
0°-90°	3027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3027.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	800	800	800	800	800	
5°	800	800	818	837	845	76
15°	763	818	903	956	976	215
25°	685	784	895	967	994	315
35°	582	696	810	882	908	364
45°	467	582	681	735	753	361
55°	350	467	556	586	593	314
65°	240	362	445	455	458	238
75°	140	257	328	326	324	149
85°	50	119	157	145	142	54
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°	799.5	799.5	799.5	799.5	799.5	799.5	799.5	799.5	799.5	799.5	799.5
2.5°	801.8	800.7	799.5	800.7	799.5	799.5	798.4	797.3	799.5	799.5	799.5
5°	799.5	798.4	797.3	798.4	798.4	800.7	801.8	807.3	814.0	818.5	825.2
7.5°	794.0	792.8	791.7	795.1	799.5	807.3	816.3	827.4	837.4	846.4	854.2
10°	786.2	785.0	785.0	792.8	804.0	818.5	830.8	844.1	857.5	869.8	880.9
12.5°	776.1	776.1	777.2	791.7	808.5	826.3	840.8	857.5	874.2	888.7	902.1
15°	762.7	761.6	767.2	787.3	808.5	828.5	847.5	866.4	886.5	903.2	917.7
17.5°	747.1	746.0	757.2	781.7	804.0	827.4	849.7	870.9	892.1	909.9	926.7
20°	728.2	728.2	743.8	772.8	797.3	823.0	846.4	868.7	892.1	911.0	928.9
22.5°	708.1	709.2	729.3	759.4	786.2	812.9	837.4	862.0	885.4	906.6	924.4
25°	684.7	686.9	710.3	741.5	770.5	798.4	824.1	849.7	874.2	895.4	914.4
27.5°	661.3	663.5	691.4	722.6	752.7	780.6	807.3	834.1	859.8	880.9	899.9
30°	634.5	640.1	668.0	700.3	731.5	759.4	787.3	814.0	838.6	860.9	880.9
32.5°	610.0	614.4	645.7	676.9	709.2	737.1	765.0	790.6	815.1	837.4	856.4
35°	582.1	588.8	620.0	651.2	682.4	710.3	738.2	763.9	788.4	809.6	828.5
37.5°	554.2	563.1	593.2	625.6	655.7	683.6	711.4	736.0	760.5	780.6	798.4
40°	526.3	534.1	565.4	596.6	627.8	654.6	681.3	704.8	728.2	748.2	765.0
42.5°	497.3	506.3	537.5	567.6	597.7	624.5	651.2	674.6	696.9	714.8	730.4
45°	467.2	478.4	508.5	538.6	568.7	595.5	621.1	643.4	663.5	681.3	695.8
47.5°	438.2	450.5	480.6	510.7	539.7	565.4	591.0	613.3	632.3	647.9	661.3
50°	408.1	422.6	451.6	480.6	510.7	536.4	560.9	581.0	601.0	616.7	627.8
52.5°	379.1	393.6	423.7	452.7	481.7	507.4	531.9	553.1	570.9	585.4	597.7
55°	350.1	365.8	395.9	424.9	453.9	479.5	504.0	524.1	541.9	556.4	566.5
57.5°	322.3	339.0	368.0	398.1	427.1	452.7	477.3	497.3	514.1	527.4	537.5
60°	293.3	312.2	341.2	370.2	400.3	427.1	450.5	470.6	487.3	499.6	508.5
62.5°	266.5	285.5	314.5	344.6	374.7	401.4	424.9	444.9	460.5	472.8	479.5
65°	239.7	259.8	288.8	318.9	349.0	375.8	399.2	419.3	433.8	444.9	451.6
67.5°	214.1	234.2	263.2	293.3	323.4	350.1	373.6	392.5	407.0	417.1	421.5
70°	188.5	208.5	237.5	267.6	296.6	324.5	347.9	365.8	380.3	388.1	391.4
72.5°	163.9	185.1	213.0	240.9	271.0	297.7	321.2	340.1	351.3	358.0	363.5
75°	140.5	160.6	187.3	215.2	243.1	271.0	293.3	310.0	321.2	327.8	330.1
77.5°	117.1	137.2	162.8	188.5	216.3	242.0	264.3	279.9	288.8	294.4	297.7
80°	94.8	112.6	136.0	160.6	186.2	209.6	229.7	244.2	252.0	254.2	254.2
82.5°	73.6	88.1	108.2	129.4	151.7	172.8	190.7	201.8	207.4	208.5	207.4
85°	50.2	60.2	75.8	92.6	109.3	128.2	143.8	151.7	155.0	157.2	155.0
87.5°	26.8	30.1	39.0	49.1	61.3	73.6	83.6	89.2	92.6	92.6	93.7
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°	799.5	799.5	799.5	799.5	799.5	799.5	799.5	799.5
2.5°	799.5	799.5	800.7	799.5	799.5	800.7	799.5	799.5
5°	828.5	830.8	836.3	838.6	839.7	843.0	843.0	845.3
7.5°	859.8	865.3	870.9	875.4	878.7	883.2	884.3	886.5
10°	888.7	895.4	902.1	908.8	913.3	915.5	917.7	918.9
12.5°	912.2	921.1	930.0	936.7	942.3	945.6	949.0	950.1
15°	928.9	941.2	951.2	960.1	965.7	970.1	973.5	975.7
17.5°	940.0	953.4	964.6	974.6	981.3	985.8	990.2	992.5
20°	943.4	956.8	970.1	980.2	988.0	993.6	996.9	999.1
22.5°	940.0	954.5	967.9	979.1	986.9	993.6	996.9	1000.3
25°	931.1	946.7	961.2	972.4	981.3	988.0	991.3	993.6
27.5°	917.7	934.5	949.0	960.1	969.0	975.7	980.2	982.4
30°	898.8	914.4	930.0	941.2	950.1	956.8	961.2	963.5
32.5°	875.4	891.0	905.5	916.6	926.7	932.2	936.7	938.9
35°	846.4	862.0	876.5	886.5	896.6	902.1	906.6	907.7
37.5°	815.1	830.8	844.1	853.1	863.1	867.6	873.1	874.2
40°	780.6	795.1	807.3	816.3	825.2	829.6	833.0	835.2
42.5°	744.9	758.3	770.5	778.3	785.0	789.5	794.0	794.0
45°	710.3	720.4	731.5	738.2	744.9	748.2	751.6	752.7
47.5°	674.6	684.7	693.6	698.1	704.8	707.0	709.2	710.3
50°	640.1	649.0	655.7	660.1	664.6	666.8	669.1	669.1
52.5°	606.6	614.4	620.0	622.2	626.7	627.8	628.9	630.0
55°	575.4	581.0	585.4	586.5	589.9	589.9	592.1	593.2
57.5°	545.3	548.6	552.0	552.0	554.2	554.2	556.4	557.6
60°	515.2	517.4	518.5	518.5	520.8	519.6	521.9	523.0
62.5°	485.1	486.2	486.2	486.2	487.3	487.3	488.4	489.5
65°	455.0	455.0	455.0	455.0	456.1	455.0	457.2	458.3
67.5°	424.9	423.7	423.7	422.6	424.9	423.7	426.0	427.1
70°	393.6	393.6	391.4	391.4	392.5	393.6	394.7	394.7
72.5°	362.4	360.2	360.2	359.1	360.2	361.3	363.5	362.4
75°	330.1	329.0	326.7	325.6	325.6	324.5	325.6	324.5
77.5°	292.2	288.8	284.4	283.2	281.0	279.9	281.0	282.1
80°	247.6	244.2	240.9	239.7	237.5	237.5	237.5	238.6
82.5°	200.7	198.5	195.1	195.1	192.9	192.9	192.9	191.8
85°	148.3	147.2	145.0	145.0	142.7	142.7	142.7	141.6
87.5°	87.0	87.0	84.7	85.9	82.5	82.5	82.5	83.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)