

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: P188391

Luminaire Tested: **22SR-LD2-29-C-UNV-L840-CD1-ST-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188391
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-L840-CD1-ST-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH STRAW SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2782.0 lumens
Efficiency: N/A
Efficacy: 118.9 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

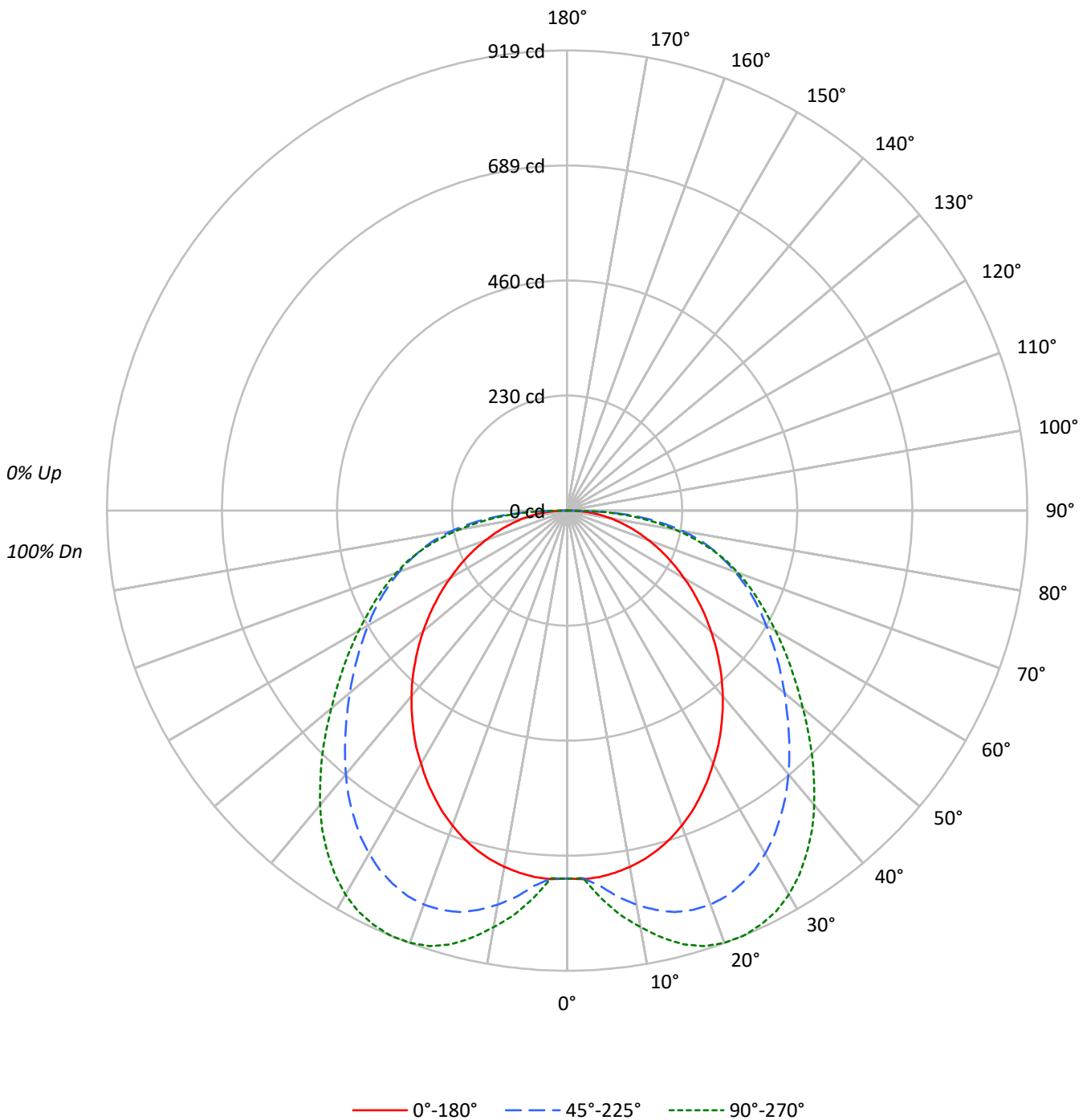
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2153	2153	2153
5°	2161	2212	2285
10°	2150	2378	2513
15°	2126	2518	2720
20°	2087	2611	2863
25°	2035	2661	2952
30°	1973	2677	2996
35°	1914	2661	2984
40°	1850	2630	2936
45°	1779	2595	2867
50°	1710	2583	2803
55°	1644	2612	2785
60°	1579	2690	2817
65°	1527	2835	2920
70°	1484	3056	3108
75°	1462	3411	3376
80°	1470	3943	3700
85°	1550	4858	4377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	2.6
10°-20°	229.9	8.3
20°-30°	368.5	13.2
30°-40°	450.0	16.2
40°-50°	463.4	16.7
50°-60°	429.6	15.4
60°-70°	368.2	13.2
70°-80°	277.0	10.0
80°-90°	122.4	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°	671.5	24.1
0°-40°	1121.5	40.3
0°-60°	2014.5	72.4
0°-90°	2782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	735	735	735	735	735	
5°	735	735	752	770	777	70
15°	701	752	830	878	897	197
25°	629	721	823	889	913	290
35°	535	640	744	810	834	335
45°	429	535	626	675	692	332
55°	322	429	511	539	545	288
65°	220	333	409	418	421	219
75°	129	236	301	300	298	137
85°	46	109	144	133	130	49
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°	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8
2.5°	736.9	735.8	734.8	735.8	734.8	734.8	733.8	732.8	734.8	734.8	734.8
5°	734.8	733.8	732.8	733.8	733.8	735.8	736.9	742.0	748.1	752.2	758.4
7.5°	729.7	728.7	727.6	730.7	734.8	742.0	750.2	760.4	769.7	777.9	785.0
10°	722.5	721.5	721.5	728.7	738.9	752.2	763.5	775.8	788.1	799.4	809.6
12.5°	713.3	713.3	714.3	727.6	743.0	759.4	772.7	788.1	803.5	816.8	829.1
15°	701.0	700.0	705.1	723.5	743.0	761.5	778.9	796.3	814.8	830.1	843.5
17.5°	686.7	685.6	695.9	718.4	738.9	760.4	780.9	800.4	819.9	836.3	851.7
20°	669.2	669.2	683.6	710.2	732.8	756.3	777.9	798.4	819.9	837.3	853.7
22.5°	650.8	651.8	670.3	697.9	722.5	747.1	769.7	792.2	813.7	833.2	849.6
25°	629.3	631.3	652.8	681.5	708.2	733.8	757.4	780.9	803.5	823.0	840.4
27.5°	607.7	609.8	635.4	664.1	691.8	717.4	742.0	766.6	790.2	809.6	827.1
30°	583.1	588.3	613.9	643.6	672.3	697.9	723.5	748.1	770.7	791.2	809.6
32.5°	560.6	564.7	593.4	622.1	651.8	677.4	703.1	726.6	749.2	769.7	787.1
35°	535.0	541.1	569.8	598.5	627.2	652.8	678.5	702.0	724.6	744.0	761.5
37.5°	509.4	517.6	545.2	574.9	602.6	628.2	653.9	676.4	699.0	717.4	733.8
40°	483.7	490.9	519.6	548.3	577.0	601.6	626.2	647.7	669.2	687.7	703.1
42.5°	457.1	465.3	494.0	521.7	549.3	573.9	598.5	620.0	640.5	656.9	671.3
45°	429.4	439.7	467.3	495.0	522.7	547.3	570.8	591.3	609.8	626.2	639.5
47.5°	402.8	414.0	441.7	469.4	496.0	519.6	543.2	563.7	581.1	595.4	607.7
50°	375.1	388.4	415.1	441.7	469.4	493.0	515.5	534.0	552.4	566.7	577.0
52.5°	348.5	361.8	389.4	416.1	442.7	466.3	488.9	508.3	524.7	538.1	549.3
55°	321.8	336.2	363.8	390.5	417.1	440.7	463.2	481.7	498.1	511.4	520.6
57.5°	296.2	311.6	338.2	365.9	392.5	416.1	438.6	457.1	472.5	484.8	494.0
60°	269.5	287.0	313.6	340.3	367.9	392.5	414.0	432.5	447.9	459.1	467.3
62.5°	244.9	262.4	289.0	316.7	344.4	368.9	390.5	408.9	423.3	434.5	440.7
65°	220.3	238.8	265.4	293.1	320.8	345.4	366.9	385.3	398.7	408.9	415.1
67.5°	196.8	215.2	241.9	269.5	297.2	321.8	343.3	360.7	374.1	383.3	387.4
70°	173.2	191.6	218.3	246.0	272.6	298.2	319.8	336.2	349.5	356.7	359.7
72.5°	150.7	170.1	195.7	221.4	249.0	273.6	295.2	312.6	322.8	329.0	334.1
75°	129.1	147.6	172.2	197.8	223.4	249.0	269.5	284.9	295.2	301.3	303.4
77.5°	107.6	126.1	149.6	173.2	198.8	222.4	242.9	257.2	265.4	270.6	273.6
80°	87.1	103.5	125.0	147.6	171.2	192.7	211.1	224.4	231.6	233.7	233.7
82.5°	67.6	81.0	99.4	118.9	139.4	158.9	175.3	185.5	190.6	191.6	190.6
85°	46.1	55.3	69.7	85.1	100.4	117.9	132.2	139.4	142.5	144.5	142.5
87.5°	24.6	27.7	35.9	45.1	56.4	67.6	76.9	82.0	85.1	85.1	86.1
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°	734.8	734.8	734.8	734.8	734.8	734.8	734.8	734.8
2.5°	734.8	734.8	735.8	734.8	734.8	735.8	734.8	734.8
5°	761.5	763.5	768.6	770.7	771.7	774.8	774.8	776.8
7.5°	790.2	795.3	800.4	804.5	807.6	811.7	812.7	814.8
10°	816.8	823.0	829.1	835.3	839.4	841.4	843.5	844.5
12.5°	838.3	846.5	854.7	860.9	866.0	869.1	872.2	873.2
15°	853.7	865.0	874.2	882.4	887.5	891.6	894.7	896.8
17.5°	864.0	876.3	886.5	895.7	901.9	906.0	910.1	912.1
20°	867.0	879.3	891.6	900.8	908.0	913.1	916.2	918.3
22.5°	864.0	877.3	889.6	899.8	907.0	913.1	916.2	919.3
25°	855.8	870.1	883.4	893.7	901.9	908.0	911.1	913.1
27.5°	843.5	858.8	872.2	882.4	890.6	896.8	900.8	902.9
30°	826.0	840.4	854.7	865.0	873.2	879.3	883.4	885.5
32.5°	804.5	818.9	832.2	842.4	851.7	856.8	860.9	862.9
35°	777.9	792.2	805.5	814.8	824.0	829.1	833.2	834.2
37.5°	749.2	763.5	775.8	784.0	793.2	797.3	802.5	803.5
40°	717.4	730.7	742.0	750.2	758.4	762.5	765.6	767.6
42.5°	684.6	696.9	708.2	715.4	721.5	725.6	729.7	729.7
45°	652.8	662.1	672.3	678.5	684.6	687.7	690.8	691.8
47.5°	620.0	629.3	637.5	641.6	647.7	649.8	651.8	652.8
50°	588.3	596.5	602.6	606.7	610.8	612.9	614.9	614.9
52.5°	557.5	564.7	569.8	571.9	576.0	577.0	578.0	579.0
55°	528.8	534.0	538.1	539.1	542.1	542.1	544.2	545.2
57.5°	501.2	504.2	507.3	507.3	509.4	509.4	511.4	512.4
60°	473.5	475.5	476.6	476.6	478.6	477.6	479.6	480.7
62.5°	445.8	446.8	446.8	446.8	447.9	447.9	448.9	449.9
65°	418.1	418.1	418.1	418.1	419.2	418.1	420.2	421.2
67.5°	390.5	389.4	389.4	388.4	390.5	389.4	391.5	392.5
70°	361.8	361.8	359.7	359.7	360.7	361.8	362.8	362.8
72.5°	333.1	331.0	331.0	330.0	331.0	332.1	334.1	333.1
75°	303.4	302.3	300.3	299.3	299.3	298.2	299.3	298.2
77.5°	268.5	265.4	261.3	260.3	258.3	257.2	258.3	259.3
80°	227.5	224.4	221.4	220.3	218.3	218.3	218.3	219.3
82.5°	184.5	182.4	179.4	179.4	177.3	177.3	177.3	176.3
85°	136.3	135.3	133.2	133.2	131.2	131.2	131.2	130.2
87.5°	79.9	79.9	77.9	78.9	75.8	75.8	75.8	76.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)