

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: P188342

Luminaire Tested: **22SR-LD2-29-C-UNV-L830-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188342
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24639)
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-L830-CD1-PL-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2535.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 2 / 1.87
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

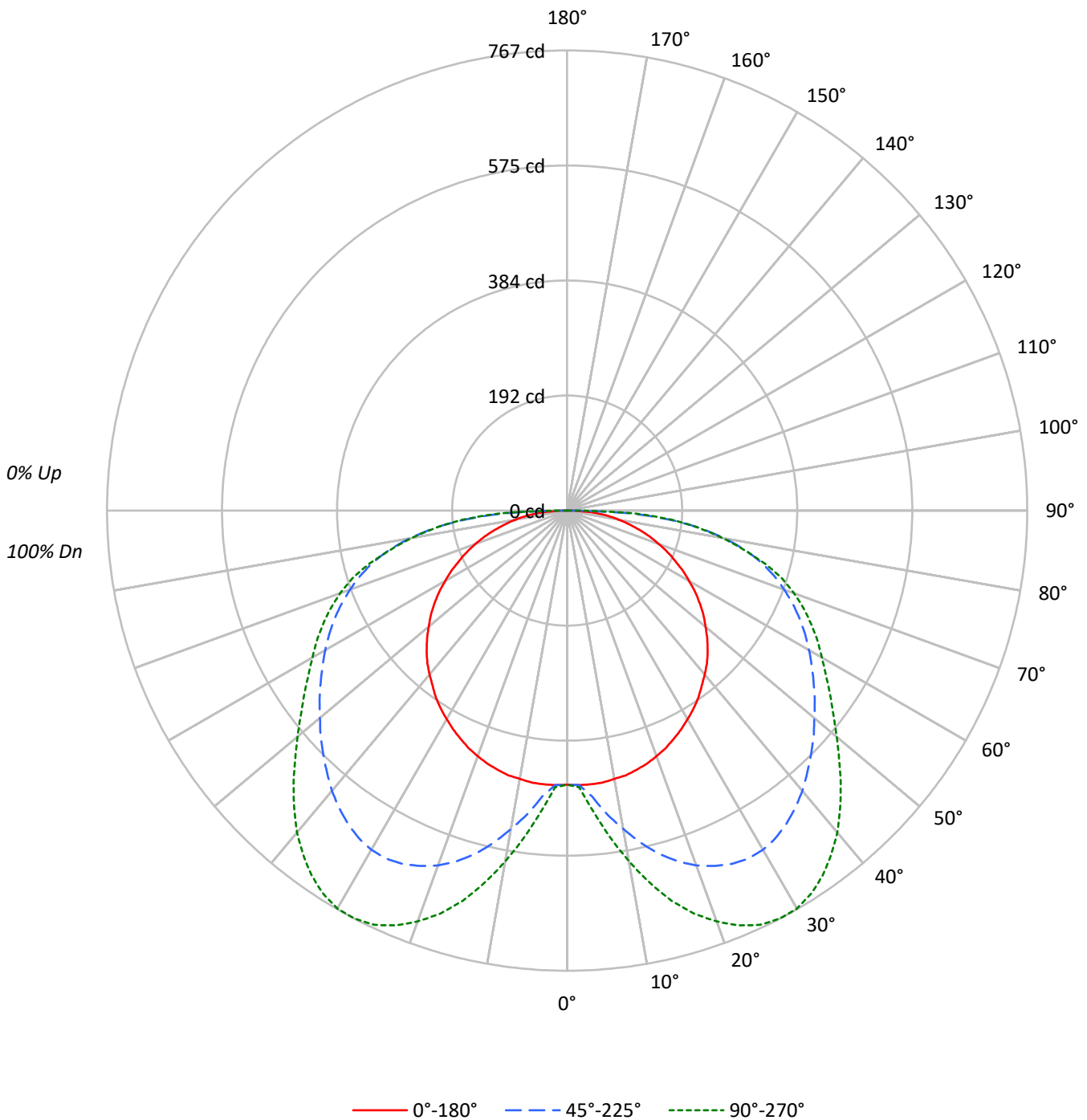
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	100	95	90	103	98	93	88	93	89	85	89	86	83	85	83	80	78
2	95	85	77	70	92	83	76	69	79	73	68	76	71	66	73	68	64	62
3	85	73	64	56	83	72	63	56	69	61	55	66	59	54	63	57	53	50
4	78	64	54	47	75	63	53	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	55	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	34	28	26
8	56	41	32	26	54	41	32	26	39	31	26	38	31	25	37	30	25	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	22	20
10	49	35	26	21	47	34	26	21	33	26	20	32	25	20	31	25	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1339	1339	1339
5°	1347	1407	1482
10°	1351	1603	1766
15°	1357	1797	2042
20°	1358	1963	2272
25°	1358	2101	2463
30°	1358	2209	2591
35°	1363	2279	2656
40°	1364	2333	2679
45°	1373	2382	2673
50°	1373	2451	2673
55°	1379	2563	2732
60°	1376	2729	2872
65°	1378	2965	3114
70°	1394	3297	3447
75°	1412	3795	3860
80°	1480	4488	4439
85°	1637	5732	5863



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	1.9
10°-20°	163.7	6.5
20°-30°	287.6	11.3
30°-40°	378.5	14.9
40°-50°	416.4	16.4
50°-60°	412.5	16.3
60°-70°	379.7	15.0
70°-80°	304.4	12.0
80°-90°	144.8	5.7
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°	498.7	19.7
0°-40°	877.2	34.6
0°-60°	1706.1	67.3
0°-90°	2535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	457	457	457	457	457	
5°	458	459	478	498	504	44
15°	447	505	592	651	673	126
25°	420	525	650	732	762	194
35°	381	507	637	717	742	238
45°	331	460	575	630	645	255
55°	270	401	502	531	535	241
65°	199	334	428	442	449	197
75°	125	251	335	340	341	132
85°	49	118	170	172	174	51
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°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0
2.5°	457.9	458.9	457.9	457.9	457.9	457.9	457.9	457.9	457.9	457.9	458.9
5°	457.9	457.9	457.9	457.9	457.9	460.9	463.8	467.7	473.5	478.4	484.2
7.5°	457.0	457.0	457.0	457.9	463.8	471.6	481.3	491.1	501.8	510.5	518.3
10°	454.0	454.0	455.0	461.8	472.6	487.2	500.8	514.4	526.1	538.8	551.5
12.5°	452.1	452.1	455.0	467.7	484.2	502.8	519.3	535.9	552.4	567.1	581.7
15°	447.2	447.2	454.0	472.6	495.0	515.4	535.9	555.4	574.9	592.4	609.0
17.5°	442.3	442.3	453.1	477.4	501.8	525.2	548.5	571.9	593.4	612.9	631.4
20°	435.5	436.5	452.1	479.4	505.7	533.0	559.3	583.6	608.0	629.4	649.9
22.5°	428.7	429.7	450.1	480.3	508.6	537.8	566.1	593.4	618.7	641.1	663.5
25°	419.9	422.9	446.2	478.4	509.6	539.8	570.0	598.2	625.5	649.9	672.3
27.5°	411.2	415.1	441.4	474.5	507.6	538.8	570.0	600.2	627.5	653.8	676.2
30°	401.4	406.3	435.5	469.6	503.7	535.9	568.0	598.2	626.5	652.8	675.2
32.5°	391.7	396.6	427.7	462.8	496.9	530.0	562.2	593.4	620.6	647.0	670.3
35°	381.0	387.8	419.9	455.0	490.1	523.2	555.4	585.6	612.9	637.2	659.6
37.5°	368.3	377.1	409.2	445.3	480.3	513.5	544.7	574.9	601.2	624.5	646.0
40°	356.6	366.3	399.5	434.6	469.6	502.8	533.0	562.2	587.5	609.9	630.4
42.5°	344.9	355.6	387.8	422.9	457.0	490.1	520.3	547.6	571.9	592.4	611.9
45°	331.3	343.0	375.1	410.2	444.3	476.4	505.7	532.0	556.3	574.9	592.4
47.5°	316.7	330.3	362.5	397.5	430.7	461.8	491.1	515.4	537.8	557.3	572.9
50°	301.1	316.7	348.8	383.9	416.0	447.2	475.5	499.8	520.3	537.8	552.4
52.5°	286.5	302.0	334.2	368.3	401.4	432.6	459.9	483.3	502.8	520.3	533.0
55°	269.9	286.5	319.6	352.7	385.8	416.0	443.3	466.7	485.2	501.8	513.5
57.5°	253.3	270.9	303.0	337.1	369.3	400.5	427.7	450.1	468.7	483.3	494.0
60°	234.8	254.3	286.5	320.6	353.7	383.9	411.2	433.6	451.1	465.7	474.5
62.5°	217.3	236.8	270.9	304.0	336.1	367.3	394.6	416.0	433.6	447.2	455.0
65°	198.8	219.2	252.4	286.5	318.6	349.8	376.1	398.5	415.1	427.7	435.5
67.5°	181.2	201.7	233.8	267.0	299.1	331.3	356.6	378.0	394.6	407.3	414.1
70°	162.7	183.2	215.3	246.5	279.6	309.8	336.1	357.6	373.2	384.9	391.7
72.5°	144.2	165.6	194.9	227.0	258.2	289.4	313.7	335.2	350.8	361.5	367.3
75°	124.7	146.1	175.4	203.6	235.8	266.0	290.4	310.8	325.4	335.2	340.0
77.5°	106.2	125.7	153.9	182.2	210.5	239.7	263.1	283.5	295.2	304.0	308.9
80°	87.7	105.2	130.6	156.9	182.2	209.5	230.9	249.4	261.1	266.0	268.9
82.5°	69.2	84.8	104.3	127.6	150.0	172.5	191.9	207.5	216.3	223.1	225.1
85°	48.7	58.5	74.0	90.6	109.1	127.6	145.2	156.9	165.6	170.5	171.5
87.5°	25.3	29.2	37.0	46.8	60.4	73.1	82.8	90.6	97.4	102.3	107.2
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°	457.0	457.0	457.0	457.0	457.0	457.0	457.0	457.0
2.5°	458.9	458.9	460.9	460.9	461.8	461.8	460.9	461.8
5°	488.1	492.0	497.9	497.9	501.8	503.7	503.7	503.7
7.5°	524.2	530.0	536.9	540.8	545.6	548.5	549.5	549.5
10°	559.3	568.0	575.8	581.7	587.5	590.4	593.4	593.4
12.5°	592.4	603.1	612.9	620.6	627.5	631.4	634.3	635.3
15°	622.6	636.2	646.0	655.7	663.5	668.4	671.3	673.3
17.5°	647.9	662.5	674.2	684.0	692.7	698.6	703.5	704.4
20°	667.4	683.0	696.6	707.4	717.1	723.0	727.8	728.8
22.5°	682.0	699.6	714.2	725.9	735.6	742.4	746.3	748.3
25°	691.8	709.3	725.9	738.5	749.3	756.1	759.0	761.9
27.5°	696.6	715.2	731.7	744.4	755.1	761.9	765.8	766.8
30°	696.6	714.2	730.7	743.4	753.2	760.0	763.9	765.8
32.5°	689.8	707.4	723.0	735.6	744.4	751.2	755.1	757.1
35°	679.1	695.7	711.3	722.0	731.7	736.6	741.5	742.4
37.5°	664.5	680.1	694.7	704.4	713.2	718.1	722.0	723.0
40°	647.0	661.6	674.2	683.0	690.8	695.7	698.6	700.5
42.5°	627.5	640.1	650.9	658.6	664.5	669.4	671.3	673.3
45°	606.0	616.8	626.5	633.3	638.2	641.1	644.0	645.0
47.5°	584.6	594.3	602.1	608.0	609.9	612.9	613.8	614.8
50°	563.2	571.0	577.8	580.7	583.6	585.6	585.6	586.5
52.5°	541.7	549.5	552.4	556.3	558.3	559.3	559.3	559.3
55°	521.3	527.1	530.0	532.0	533.0	534.9	534.9	534.9
57.5°	501.8	505.7	506.7	508.6	509.6	511.5	511.5	511.5
60°	480.3	484.2	485.2	486.2	487.2	489.1	490.1	490.1
62.5°	460.9	463.8	462.8	464.8	465.7	467.7	469.6	470.6
65°	439.4	441.4	441.4	442.3	445.3	446.2	448.2	449.2
67.5°	418.0	419.0	419.0	420.9	422.9	424.8	425.8	426.8
70°	393.6	395.6	394.6	396.6	398.5	400.5	402.4	402.4
72.5°	368.3	369.3	370.2	369.3	371.2	373.2	374.1	375.1
75°	339.1	341.0	341.0	339.1	340.0	340.0	341.0	341.0
77.5°	305.0	304.0	301.1	299.1	299.1	300.1	300.1	301.1
80°	266.0	264.0	262.1	260.1	260.1	261.1	261.1	263.1
82.5°	223.1	221.2	219.2	218.3	219.2	219.2	220.2	221.2
85°	172.5	169.5	172.5	170.5	172.5	172.5	172.5	174.4
87.5°	107.2	108.2	111.1	110.1	109.1	110.1	114.0	112.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)