

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: P188348

Luminaire Tested: **22SR-LD2-25-C-UNV-L835-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188348
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-LD2-25-C-UNV-L835-CD1-PL-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2239.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

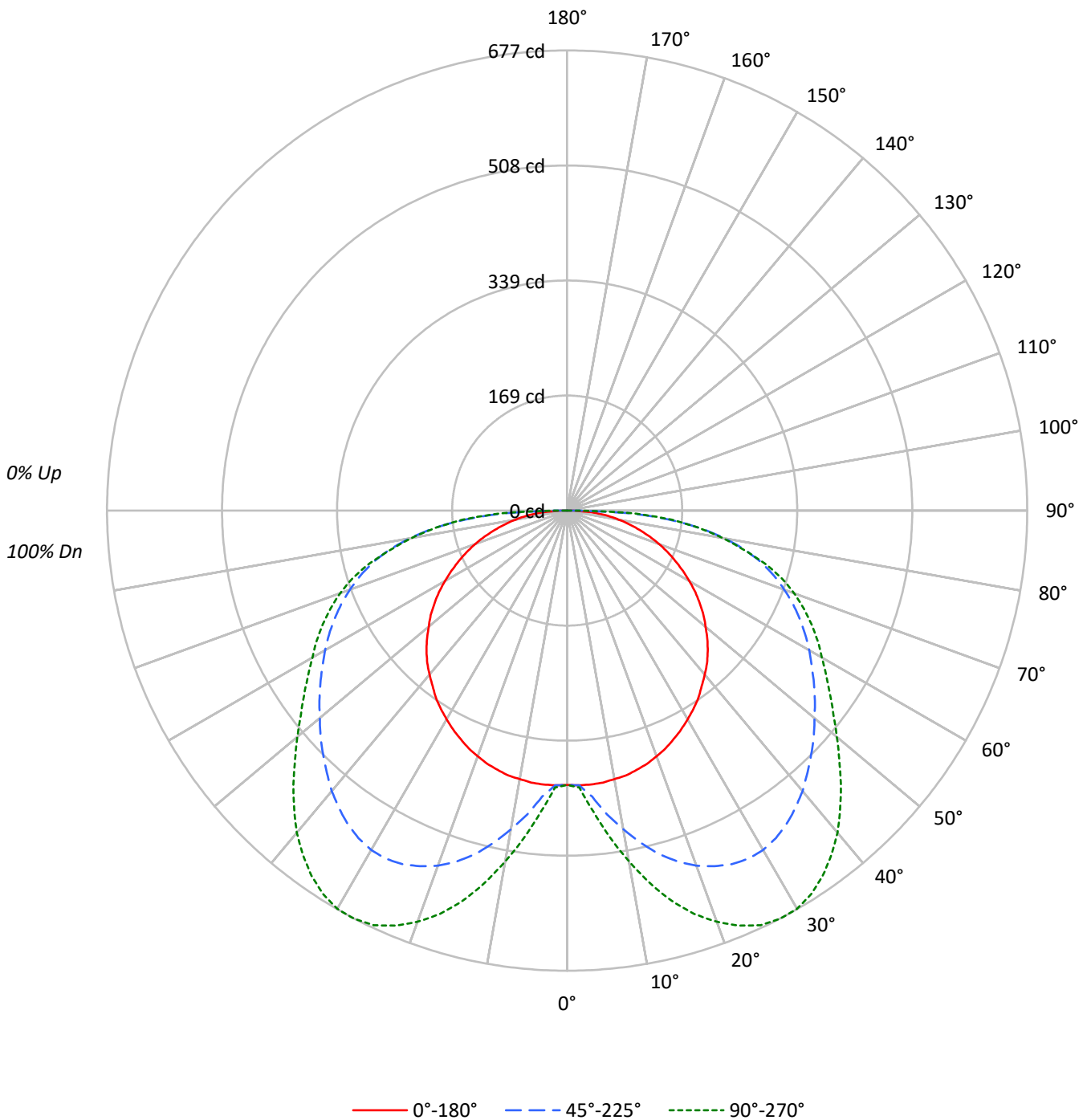
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1183	1183	1183
5°	1190	1243	1309
10°	1193	1416	1559
15°	1198	1587	1804
20°	1200	1733	2007
25°	1199	1856	2176
30°	1200	1951	2288
35°	1204	2013	2345
40°	1205	2060	2366
45°	1212	2104	2361
50°	1212	2165	2362
55°	1218	2264	2413
60°	1215	2410	2537
65°	1217	2619	2750
70°	1231	2912	3045
75°	1248	3351	3410
80°	1308	3964	3921
85°	1446	5063	5177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	1.9
10°-20°	144.6	6.5
20°-30°	254.0	11.3
30°-40°	334.3	14.9
40°-50°	367.7	16.4
50°-60°	364.4	16.3
60°-70°	335.3	15.0
70°-80°	268.9	12.0
80°-90°	127.9	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°	440.5	19.7
0°-40°	774.8	34.6
0°-60°	1506.9	67.3
0°-90°	2239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	404	404	404	404	404	
5°	404	406	422	440	445	39
15°	395	446	523	575	595	112
25°	371	463	574	647	673	171
35°	336	448	563	633	656	210
45°	293	407	508	556	570	225
55°	238	354	443	469	472	213
65°	176	295	378	390	397	174
75°	110	222	296	300	301	117
85°	43	105	151	151	154	45
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°	403.6	403.6	403.6	403.6	403.6	403.6	403.6	403.6	403.6	403.6	403.6
2.5°	404.5	405.3	404.5	404.5	404.5	404.5	404.5	404.5	404.5	404.5	405.3
5°	404.5	404.5	404.5	404.5	404.5	407.0	409.6	413.1	418.2	422.5	427.7
7.5°	403.6	403.6	403.6	404.5	409.6	416.5	425.1	433.7	443.2	450.9	457.8
10°	401.0	401.0	401.9	407.9	417.4	430.3	442.3	454.4	464.7	475.9	487.1
12.5°	399.3	399.3	401.9	413.1	427.7	444.1	458.7	473.3	487.9	500.8	513.8
15°	395.0	395.0	401.0	417.4	437.2	455.2	473.3	490.5	507.7	523.2	537.9
17.5°	390.7	390.7	400.2	421.7	443.2	463.8	484.5	505.2	524.1	541.3	557.6
20°	384.7	385.5	399.3	423.4	446.6	470.7	494.0	515.5	537.0	555.9	574.0
22.5°	378.6	379.5	397.6	424.3	449.2	475.0	500.0	524.1	546.5	566.3	586.0
25°	370.9	373.5	394.1	422.5	450.1	476.8	503.4	528.4	552.5	574.0	593.8
27.5°	363.2	366.6	389.8	419.1	448.4	475.9	503.4	530.1	554.2	577.4	597.2
30°	354.6	358.9	384.7	414.8	444.9	473.3	501.7	528.4	553.3	576.6	596.4
32.5°	345.9	350.2	377.8	408.8	438.9	468.1	496.5	524.1	548.2	571.4	592.1
35°	336.5	342.5	370.9	401.9	432.9	462.1	490.5	517.2	541.3	562.8	582.6
37.5°	325.3	333.0	361.4	393.3	424.3	453.5	481.1	507.7	531.0	551.6	570.6
40°	315.0	323.6	352.8	383.8	414.8	444.1	470.7	496.5	518.9	538.7	556.8
42.5°	304.6	314.1	342.5	373.5	403.6	432.9	459.5	483.6	505.2	523.2	540.4
45°	292.6	302.9	331.3	362.3	392.4	420.8	446.6	469.9	491.4	507.7	523.2
47.5°	279.7	291.7	320.1	351.1	380.4	407.9	433.7	455.2	475.0	492.2	506.0
50°	265.9	279.7	308.1	339.1	367.5	395.0	420.0	441.5	459.5	475.0	487.9
52.5°	253.0	266.8	295.2	325.3	354.6	382.1	406.2	426.8	444.1	459.5	470.7
55°	238.4	253.0	282.3	311.5	340.8	367.5	391.6	412.2	428.6	443.2	453.5
57.5°	223.7	239.2	267.6	297.8	326.2	353.7	377.8	397.6	413.9	426.8	436.3
60°	207.4	224.6	253.0	283.1	312.4	339.1	363.2	383.0	398.4	411.3	419.1
62.5°	191.9	209.1	239.2	268.5	296.9	324.4	348.5	367.5	383.0	395.0	401.9
65°	175.6	193.6	222.9	253.0	281.4	308.9	332.2	352.0	366.6	377.8	384.7
67.5°	160.1	178.1	206.5	235.8	264.2	292.6	315.0	333.9	348.5	359.7	365.7
70°	143.7	161.8	190.2	217.7	247.0	273.7	296.9	315.8	329.6	339.9	345.9
72.5°	127.4	146.3	172.1	200.5	228.0	255.6	277.1	296.0	309.8	319.3	324.4
75°	110.2	129.1	154.9	179.9	208.3	234.9	256.4	274.5	287.4	296.0	300.3
77.5°	93.8	111.0	136.0	160.9	185.9	211.7	232.4	250.4	260.8	268.5	272.8
80°	77.5	92.9	115.3	138.6	160.9	185.0	204.0	220.3	230.6	234.9	237.5
82.5°	61.1	74.9	92.1	112.7	132.5	152.3	169.5	183.3	191.0	197.1	198.8
85°	43.0	51.6	65.4	80.0	96.4	112.7	128.2	138.6	146.3	150.6	151.5
87.5°	22.4	25.8	32.7	41.3	53.4	64.5	73.1	80.0	86.1	90.4	94.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P188348

CATALOG NUMBER: 22SR-LD2-25-C-UNV-L835-CD1-PL-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	403.6	403.6	403.6	403.6	403.6	403.6	403.6	403.6
2.5°	405.3	405.3	407.0	407.0	407.9	407.9	407.0	407.9
5°	431.1	434.6	439.7	439.7	443.2	444.9	444.9	444.9
7.5°	463.0	468.1	474.2	477.6	481.9	484.5	485.4	485.4
10°	494.0	501.7	508.6	513.8	518.9	521.5	524.1	524.1
12.5°	523.2	532.7	541.3	548.2	554.2	557.6	560.2	561.1
15°	549.9	561.9	570.6	579.2	586.0	590.3	592.9	594.6
17.5°	572.3	585.2	595.5	604.1	611.9	617.0	621.3	622.2
20°	589.5	603.3	615.3	624.8	633.4	638.5	642.8	643.7
22.5°	602.4	617.9	630.8	641.1	649.7	655.7	659.2	660.9
25°	611.0	626.5	641.1	652.3	661.8	667.8	670.4	673.0
27.5°	615.3	631.7	646.3	657.5	666.9	673.0	676.4	677.3
30°	615.3	630.8	645.4	656.6	665.2	671.2	674.7	676.4
32.5°	609.3	624.8	638.5	649.7	657.5	663.5	666.9	668.7
35°	599.8	614.4	628.2	637.7	646.3	650.6	654.9	655.7
37.5°	586.9	600.7	613.6	622.2	629.9	634.2	637.7	638.5
40°	571.4	584.3	595.5	603.3	610.1	614.4	617.0	618.7
42.5°	554.2	565.4	574.9	581.7	586.9	591.2	592.9	594.6
45°	535.3	544.7	553.3	559.4	563.7	566.3	568.8	569.7
47.5°	516.3	524.9	531.8	537.0	538.7	541.3	542.2	543.0
50°	497.4	504.3	510.3	512.9	515.5	517.2	517.2	518.1
52.5°	478.5	485.4	487.9	491.4	493.1	494.0	494.0	494.0
55°	460.4	465.6	468.1	469.9	470.7	472.4	472.4	472.4
57.5°	443.2	446.6	447.5	449.2	450.1	451.8	451.8	451.8
60°	424.3	427.7	428.6	429.4	430.3	432.0	432.9	432.9
62.5°	407.0	409.6	408.8	410.5	411.3	413.1	414.8	415.7
65°	388.1	389.8	389.8	390.7	393.3	394.1	395.9	396.7
67.5°	369.2	370.0	370.0	371.8	373.5	375.2	376.1	376.9
70°	347.7	349.4	348.5	350.2	352.0	353.7	355.4	355.4
72.5°	325.3	326.2	327.0	326.2	327.9	329.6	330.5	331.3
75°	299.5	301.2	301.2	299.5	300.3	300.3	301.2	301.2
77.5°	269.4	268.5	265.9	264.2	264.2	265.1	265.1	265.9
80°	234.9	233.2	231.5	229.8	229.8	230.6	230.6	232.4
82.5°	197.1	195.3	193.6	192.8	193.6	193.6	194.5	195.3
85°	152.3	149.7	152.3	150.6	152.3	152.3	152.3	154.0
87.5°	94.7	95.5	98.1	97.2	96.4	97.2	100.7	99.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)