

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: P188356

Luminaire Tested: **22SR-LD2-19-C-UNV-L850-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188356
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-LD2-19-C-UNV-L850-CD1-PL-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1886.0 lumens
Efficiency: N/A
Efficacy: 128.3 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

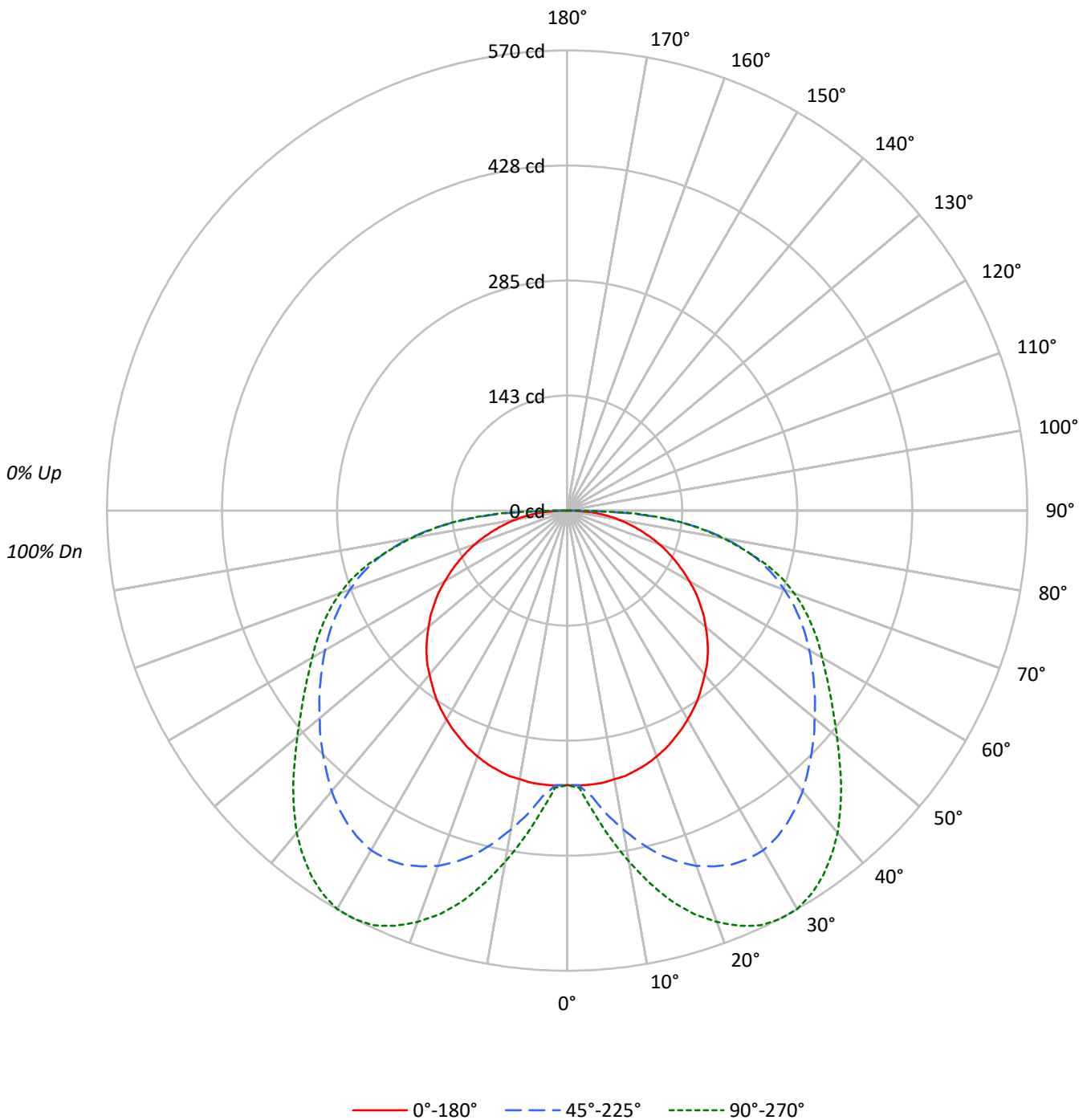
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	996	996	996
5°	1002	1047	1102
10°	1005	1193	1314
15°	1009	1337	1519
20°	1010	1460	1691
25°	1010	1563	1833
30°	1011	1643	1928
35°	1014	1696	1976
40°	1015	1736	1994
45°	1021	1772	1989
50°	1021	1824	1989
55°	1026	1907	2033
60°	1024	2031	2137
65°	1025	2206	2317
70°	1037	2453	2565
75°	1051	2823	2872
80°	1100	3339	3302
85°	1217	4266	4364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.9
10°-20°	121.8	6.5
20°-30°	214.0	11.3
30°-40°	281.6	14.9
40°-50°	309.8	16.4
50°-60°	306.9	16.3
60°-70°	282.5	15.0
70°-80°	226.5	12.0
80°-90°	107.7	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°	371.0	19.7
0°-40°	652.7	34.6
0°-60°	1269.3	67.3
0°-90°	1886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	340	340	340	340	340	
5°	341	342	356	370	375	32
15°	333	376	441	484	501	94
25°	312	390	484	545	567	144
35°	283	377	474	533	552	177
45°	246	342	428	469	480	190
55°	201	298	373	395	398	179
65°	148	249	318	329	334	147
75°	93	187	249	253	254	98
85°	36	88	127	128	130	38
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°	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0
2.5°	340.7	341.4	340.7	340.7	340.7	340.7	340.7	340.7	340.7	340.7	341.4
5°	340.7	340.7	340.7	340.7	340.7	342.9	345.0	347.9	352.3	355.9	360.3
7.5°	340.0	340.0	340.0	340.7	345.0	350.8	358.1	365.3	373.3	379.8	385.6
10°	337.8	337.8	338.5	343.6	351.6	362.4	372.6	382.7	391.4	400.9	410.3
12.5°	336.3	336.3	338.5	347.9	360.3	374.0	386.4	398.7	411.0	421.9	432.8
15°	332.7	332.7	337.8	351.6	368.2	383.5	398.7	413.2	427.7	440.7	453.1
17.5°	329.1	329.1	337.1	355.2	373.3	390.7	408.1	425.5	441.5	456.0	469.7
20°	324.0	324.7	336.3	356.6	376.2	396.5	416.1	434.2	452.3	468.3	483.5
22.5°	319.0	319.7	334.9	357.4	378.4	400.1	421.2	441.5	460.3	477.0	493.6
25°	312.4	314.6	332.0	355.9	379.1	401.6	424.1	445.1	465.4	483.5	500.2
27.5°	305.9	308.8	328.4	353.0	377.7	400.9	424.1	446.5	466.8	486.4	503.1
30°	298.7	302.3	324.0	349.4	374.8	398.7	422.6	445.1	466.1	485.7	502.3
32.5°	291.4	295.0	318.2	344.3	369.7	394.3	418.3	441.5	461.8	481.3	498.7
35°	283.4	288.5	312.4	338.5	364.6	389.3	413.2	435.7	456.0	474.1	490.7
37.5°	274.0	280.5	304.5	331.3	357.4	382.0	405.2	427.7	447.3	464.7	480.6
40°	265.3	272.6	297.2	323.3	349.4	374.0	396.5	418.3	437.1	453.8	469.0
42.5°	256.6	264.6	288.5	314.6	340.0	364.6	387.1	407.4	425.5	440.7	455.2
45°	246.5	255.2	279.1	305.2	330.5	354.5	376.2	395.8	413.9	427.7	440.7
47.5°	235.6	245.7	269.7	295.8	320.4	343.6	365.3	383.5	400.1	414.6	426.2
50°	224.0	235.6	259.5	285.6	309.5	332.7	353.7	371.9	387.1	400.1	411.0
52.5°	213.1	224.7	248.6	274.0	298.7	321.8	342.1	359.5	374.0	387.1	396.5
55°	200.8	213.1	237.8	262.4	287.1	309.5	329.8	347.2	361.0	373.3	382.0
57.5°	188.5	201.5	225.4	250.8	274.7	297.9	318.2	334.9	348.7	359.5	367.5
60°	174.7	189.2	213.1	238.5	263.1	285.6	305.9	322.6	335.6	346.5	353.0
62.5°	161.6	176.1	201.5	226.2	250.1	273.3	293.6	309.5	322.6	332.7	338.5
65°	147.9	163.1	187.7	213.1	237.0	260.2	279.8	296.5	308.8	318.2	324.0
67.5°	134.8	150.1	174.0	198.6	222.5	246.5	265.3	281.3	293.6	303.0	308.1
70°	121.1	136.3	160.2	183.4	208.0	230.5	250.1	266.0	277.6	286.3	291.4
72.5°	107.3	123.2	145.0	168.9	192.1	215.3	233.4	249.4	261.0	268.9	273.3
75°	92.8	108.7	130.5	151.5	175.4	197.9	216.0	231.2	242.1	249.4	253.0
77.5°	79.0	93.5	114.5	135.6	156.6	178.3	195.7	210.9	219.6	226.2	229.8
80°	65.2	78.3	97.1	116.7	135.6	155.9	171.8	185.6	194.3	197.9	200.1
82.5°	51.5	63.1	77.6	95.0	111.6	128.3	142.8	154.4	160.9	166.0	167.4
85°	36.2	43.5	55.1	67.4	81.2	95.0	108.0	116.7	123.2	126.9	127.6
87.5°	18.8	21.7	27.5	34.8	44.9	54.4	61.6	67.4	72.5	76.1	79.7
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°	340.0	340.0	340.0	340.0	340.0	340.0	340.0	340.0
2.5°	341.4	341.4	342.9	342.9	343.6	343.6	342.9	343.6
5°	363.2	366.1	370.4	370.4	373.3	374.8	374.8	374.8
7.5°	390.0	394.3	399.4	402.3	405.9	408.1	408.8	408.8
10°	416.1	422.6	428.4	432.8	437.1	439.3	441.5	441.5
12.5°	440.7	448.7	456.0	461.8	466.8	469.7	471.9	472.6
15°	463.2	473.4	480.6	487.8	493.6	497.3	499.4	500.9
17.5°	482.0	492.9	501.6	508.9	515.4	519.7	523.4	524.1
20°	496.5	508.1	518.3	526.3	533.5	537.9	541.5	542.2
22.5°	507.4	520.5	531.3	540.0	547.3	552.4	555.3	556.7
25°	514.7	527.7	540.0	549.5	557.4	562.5	564.7	566.9
27.5°	518.3	532.1	544.4	553.8	561.8	566.9	569.8	570.5
30°	518.3	531.3	543.7	553.1	560.3	565.4	568.3	569.8
32.5°	513.2	526.3	537.9	547.3	553.8	558.9	561.8	563.2
35°	505.2	517.6	529.2	537.1	544.4	548.0	551.6	552.4
37.5°	494.4	506.0	516.8	524.1	530.6	534.2	537.1	537.9
40°	481.3	492.2	501.6	508.1	513.9	517.6	519.7	521.2
42.5°	466.8	476.3	484.2	490.0	494.4	498.0	499.4	500.9
45°	450.9	458.9	466.1	471.2	474.8	477.0	479.2	479.9
47.5°	434.9	442.2	448.0	452.3	453.8	456.0	456.7	457.4
50°	419.0	424.8	429.9	432.0	434.2	435.7	435.7	436.4
52.5°	403.0	408.8	411.0	413.9	415.4	416.1	416.1	416.1
55°	387.8	392.2	394.3	395.8	396.5	398.0	398.0	398.0
57.5°	373.3	376.2	376.9	378.4	379.1	380.6	380.6	380.6
60°	357.4	360.3	361.0	361.7	362.4	363.9	364.6	364.6
62.5°	342.9	345.0	344.3	345.8	346.5	347.9	349.4	350.1
65°	326.9	328.4	328.4	329.1	331.3	332.0	333.4	334.2
67.5°	311.0	311.7	311.7	313.2	314.6	316.1	316.8	317.5
70°	292.9	294.3	293.6	295.0	296.5	297.9	299.4	299.4
72.5°	274.0	274.7	275.5	274.7	276.2	277.6	278.4	279.1
75°	252.3	253.7	253.7	252.3	253.0	253.0	253.7	253.7
77.5°	226.9	226.2	224.0	222.5	222.5	223.3	223.3	224.0
80°	197.9	196.4	195.0	193.5	193.5	194.3	194.3	195.7
82.5°	166.0	164.5	163.1	162.4	163.1	163.1	163.8	164.5
85°	128.3	126.1	128.3	126.9	128.3	128.3	128.3	129.8
87.5°	79.7	80.5	82.6	81.9	81.2	81.9	84.8	83.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)