

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: P188355

Luminaire Tested: **22SR-LD2-19-C-UNV-L840-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188355
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-L840-CD1-PL-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1733.0 lumens
Efficiency: N/A
Efficacy: 117.9 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

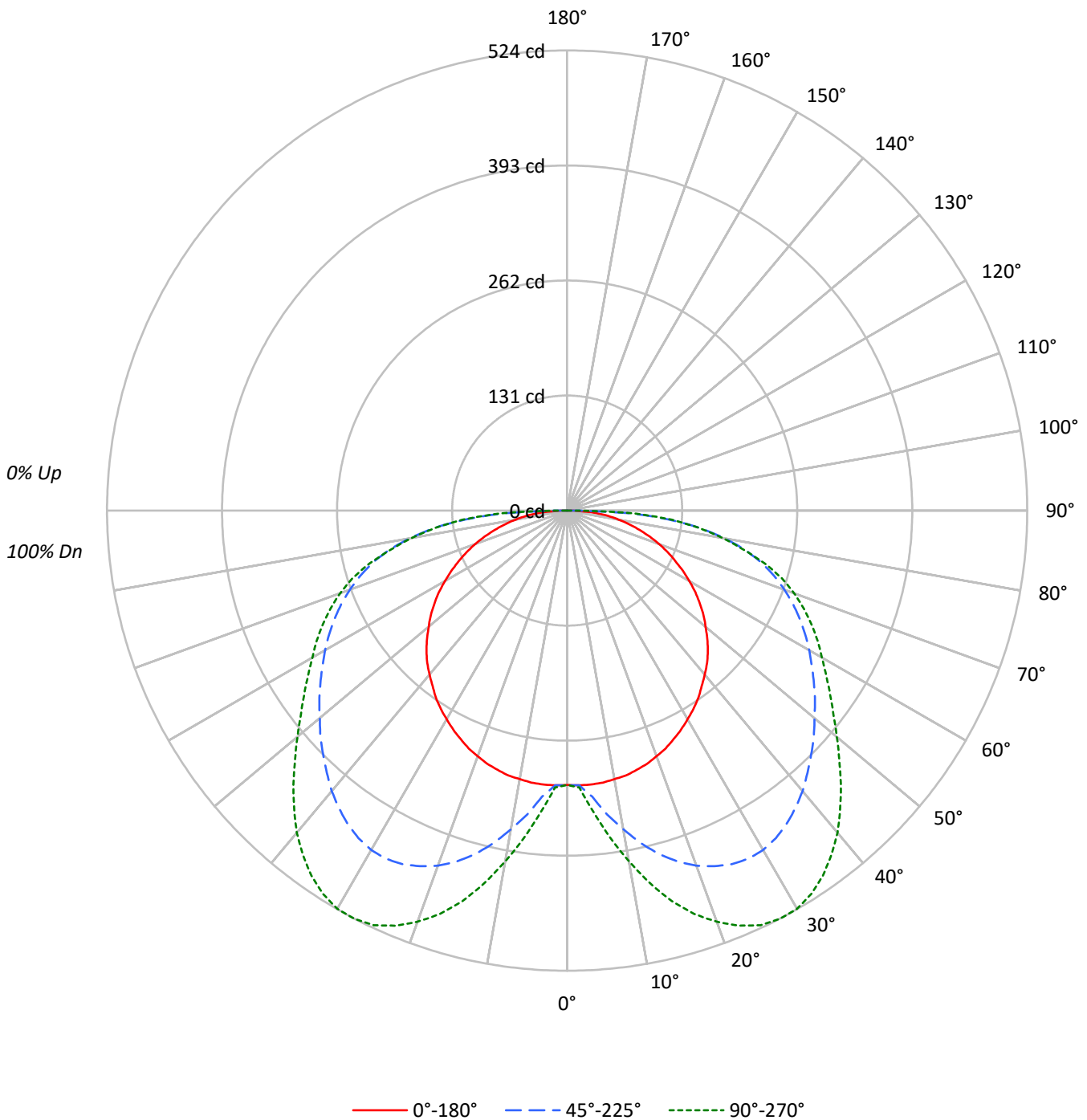
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	915	915	915
5°	921	962	1013
10°	924	1096	1207
15°	927	1229	1396
20°	928	1342	1553
25°	928	1436	1684
30°	928	1510	1771
35°	931	1558	1816
40°	933	1595	1832
45°	939	1628	1827
50°	938	1676	1828
55°	943	1752	1868
60°	941	1866	1963
65°	942	2027	2129
70°	953	2254	2357
75°	966	2594	2639
80°	1011	3068	3034
85°	1120	3920	4007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	1.9
10°-20°	111.9	6.5
20°-30°	196.6	11.3
30°-40°	258.8	14.9
40°-50°	284.6	16.4
50°-60°	282.0	16.3
60°-70°	259.6	15.0
70°-80°	208.1	12.0
80°-90°	99.0	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°	340.9	19.7
0°-40°	599.7	34.6
0°-60°	1166.4	67.3
0°-90°	1733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1733.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	312	312	312	312	312	
5°	313	314	327	340	344	30
15°	306	345	405	445	460	86
25°	287	359	444	501	521	132
35°	260	346	436	490	508	163
45°	226	315	393	431	441	175
55°	184	274	343	363	366	165
65°	136	228	292	302	307	135
75°	85	172	229	232	233	90
85°	33	81	117	117	119	35
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°	312.4	312.4	312.4	312.4	312.4	312.4	312.4	312.4	312.4	312.4	312.4
2.5°	313.1	313.7	313.1	313.1	313.1	313.1	313.1	313.1	313.1	313.1	313.7
5°	313.1	313.1	313.1	313.1	313.1	315.1	317.1	319.7	323.7	327.0	331.0
7.5°	312.4	312.4	312.4	313.1	317.1	322.4	329.0	335.7	343.0	349.0	354.4
10°	310.4	310.4	311.1	315.7	323.0	333.0	342.4	351.7	359.7	368.3	377.0
12.5°	309.1	309.1	311.1	319.7	331.0	343.7	355.0	366.3	377.7	387.7	397.7
15°	305.7	305.7	310.4	323.0	338.4	352.4	366.3	379.7	393.0	405.0	416.3
17.5°	302.4	302.4	309.7	326.4	343.0	359.0	375.0	391.0	405.6	419.0	431.6
20°	297.7	298.4	309.1	327.7	345.7	364.3	382.3	399.0	415.6	430.3	444.3
22.5°	293.1	293.7	307.7	328.4	347.7	367.7	387.0	405.6	423.0	438.3	453.6
25°	287.1	289.1	305.1	327.0	348.4	369.0	389.7	409.0	427.6	444.3	459.6
27.5°	281.1	283.8	301.7	324.4	347.0	368.3	389.7	410.3	429.0	446.9	462.3
30°	274.4	277.8	297.7	321.1	344.4	366.3	388.3	409.0	428.3	446.3	461.6
32.5°	267.8	271.1	292.4	316.4	339.7	362.3	384.3	405.6	424.3	442.3	458.3
35°	260.4	265.1	287.1	311.1	335.0	357.7	379.7	400.3	419.0	435.6	450.9
37.5°	251.8	257.8	279.8	304.4	328.4	351.0	372.3	393.0	411.0	427.0	441.6
40°	243.8	250.4	273.1	297.1	321.1	343.7	364.3	384.3	401.6	417.0	431.0
42.5°	235.8	243.1	265.1	289.1	312.4	335.0	355.7	374.3	391.0	405.0	418.3
45°	226.5	234.5	256.4	280.4	303.7	325.7	345.7	363.7	380.3	393.0	405.0
47.5°	216.5	225.8	247.8	271.8	294.4	315.7	335.7	352.4	367.7	381.0	391.7
50°	205.8	216.5	238.5	262.4	284.4	305.7	325.0	341.7	355.7	367.7	377.7
52.5°	195.8	206.5	228.5	251.8	274.4	295.7	314.4	330.4	343.7	355.7	364.3
55°	184.5	195.8	218.5	241.1	263.8	284.4	303.1	319.1	331.7	343.0	351.0
57.5°	173.2	185.2	207.2	230.5	252.4	273.8	292.4	307.7	320.4	330.4	337.7
60°	160.5	173.8	195.8	219.1	241.8	262.4	281.1	296.4	308.4	318.4	324.4
62.5°	148.5	161.9	185.2	207.8	229.8	251.1	269.8	284.4	296.4	305.7	311.1
65°	135.9	149.9	172.5	195.8	217.8	239.1	257.1	272.4	283.8	292.4	297.7
67.5°	123.9	137.9	159.9	182.5	204.5	226.5	243.8	258.4	269.8	278.4	283.1
70°	111.2	125.2	147.2	168.5	191.2	211.8	229.8	244.5	255.1	263.1	267.8
72.5°	98.6	113.2	133.2	155.2	176.5	197.8	214.5	229.1	239.8	247.1	251.1
75°	85.3	99.9	119.9	139.2	161.2	181.8	198.5	212.5	222.5	229.1	232.5
77.5°	72.6	85.9	105.2	124.6	143.9	163.9	179.8	193.8	201.8	207.8	211.1
80°	59.9	71.9	89.3	107.2	124.6	143.2	157.9	170.5	178.5	181.8	183.8
82.5°	47.3	57.9	71.3	87.3	102.6	117.9	131.2	141.9	147.9	152.5	153.9
85°	33.3	40.0	50.6	61.9	74.6	87.3	99.2	107.2	113.2	116.6	117.2
87.5°	17.3	20.0	25.3	32.0	41.3	50.0	56.6	61.9	66.6	69.9	73.3
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°	312.4	312.4	312.4	312.4	312.4	312.4	312.4	312.4
2.5°	313.7	313.7	315.1	315.1	315.7	315.7	315.1	315.7
5°	333.7	336.4	340.4	340.4	343.0	344.4	344.4	344.4
7.5°	358.4	362.3	367.0	369.7	373.0	375.0	375.7	375.7
10°	382.3	388.3	393.7	397.7	401.6	403.6	405.6	405.6
12.5°	405.0	412.3	419.0	424.3	429.0	431.6	433.6	434.3
15°	425.6	435.0	441.6	448.3	453.6	456.9	458.9	460.3
17.5°	442.9	452.9	460.9	467.6	473.6	477.6	480.9	481.6
20°	456.3	466.9	476.2	483.6	490.2	494.2	497.6	498.2
22.5°	466.3	478.2	488.2	496.2	502.9	507.6	510.2	511.6
25°	472.9	484.9	496.2	504.9	512.2	516.9	518.9	520.9
27.5°	476.2	488.9	500.2	508.9	516.2	520.9	523.5	524.2
30°	476.2	488.2	499.6	508.2	514.9	519.5	522.2	523.5
32.5°	471.6	483.6	494.2	502.9	508.9	513.5	516.2	517.5
35°	464.3	475.6	486.2	493.6	500.2	503.6	506.9	507.6
37.5°	454.3	464.9	474.9	481.6	487.6	490.9	493.6	494.2
40°	442.3	452.3	460.9	466.9	472.3	475.6	477.6	478.9
42.5°	429.0	437.6	444.9	450.3	454.3	457.6	458.9	460.3
45°	414.3	421.6	428.3	433.0	436.3	438.3	440.3	440.9
47.5°	399.6	406.3	411.6	415.6	417.0	419.0	419.6	420.3
50°	385.0	390.3	395.0	397.0	399.0	400.3	400.3	401.0
52.5°	370.3	375.7	377.7	380.3	381.7	382.3	382.3	382.3
55°	356.4	360.3	362.3	363.7	364.3	365.7	365.7	365.7
57.5°	343.0	345.7	346.4	347.7	348.4	349.7	349.7	349.7
60°	328.4	331.0	331.7	332.4	333.0	334.4	335.0	335.0
62.5°	315.1	317.1	316.4	317.7	318.4	319.7	321.1	321.7
65°	300.4	301.7	301.7	302.4	304.4	305.1	306.4	307.1
67.5°	285.7	286.4	286.4	287.7	289.1	290.4	291.1	291.7
70°	269.1	270.4	269.8	271.1	272.4	273.8	275.1	275.1
72.5°	251.8	252.4	253.1	252.4	253.8	255.1	255.8	256.4
75°	231.8	233.1	233.1	231.8	232.5	232.5	233.1	233.1
77.5°	208.5	207.8	205.8	204.5	204.5	205.2	205.2	205.8
80°	181.8	180.5	179.2	177.8	177.8	178.5	178.5	179.8
82.5°	152.5	151.2	149.9	149.2	149.9	149.9	150.5	151.2
85°	117.9	115.9	117.9	116.6	117.9	117.9	117.9	119.2
87.5°	73.3	73.9	75.9	75.3	74.6	75.3	77.9	76.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)