

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: P188353

Luminaire Tested: **22SR-LD2-20-C-UNV-L830-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188353
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-LD2-20-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: 1726.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 2 / 1.87
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

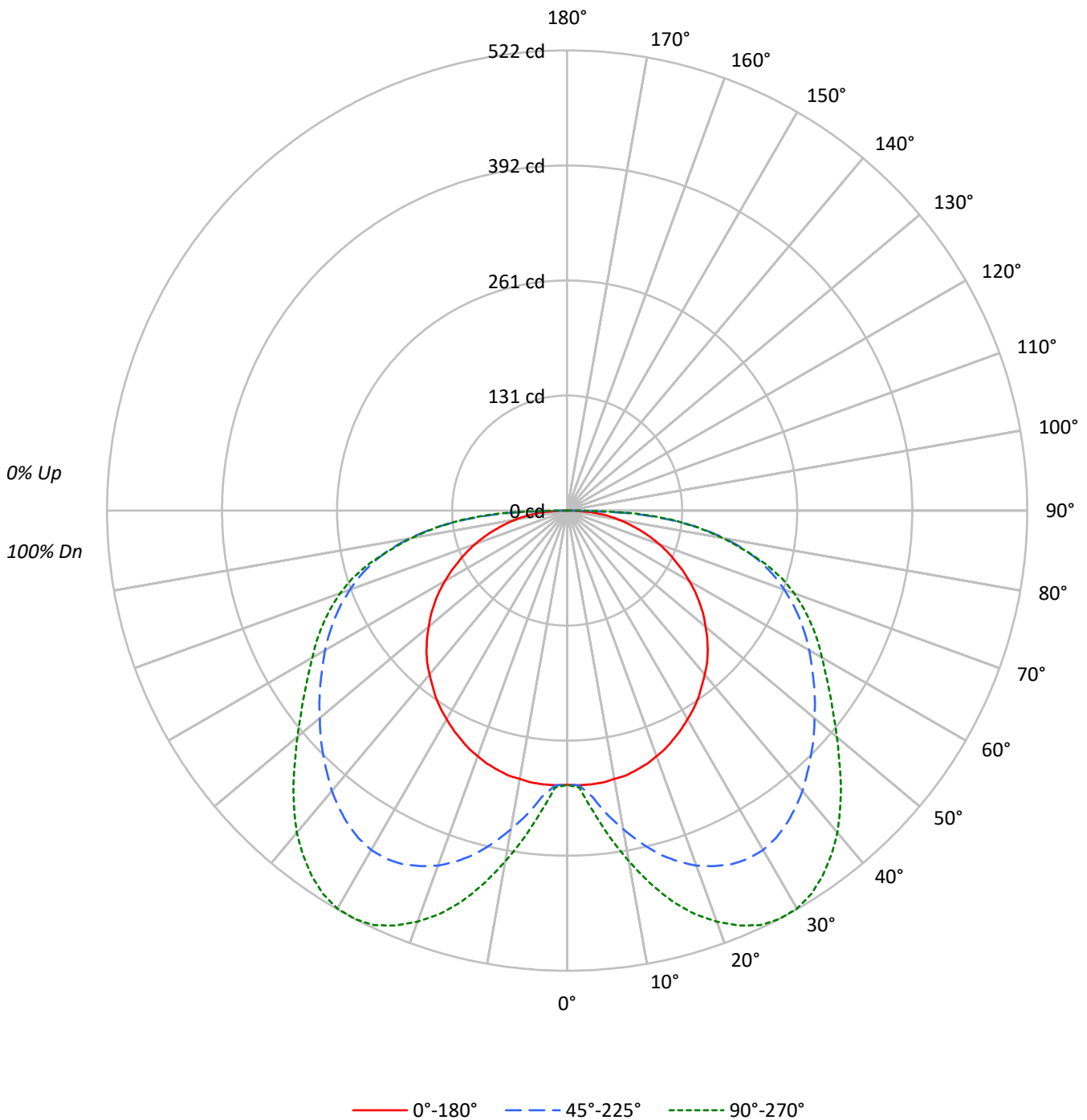
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	912	912	912
5°	917	958	1009
10°	920	1092	1202
15°	924	1223	1391
20°	925	1336	1547
25°	924	1431	1677
30°	925	1504	1764
35°	928	1552	1808
40°	929	1588	1824
45°	935	1622	1820
50°	934	1669	1821
55°	939	1745	1860
60°	937	1858	1956
65°	938	2019	2120
70°	949	2245	2347
75°	961	2583	2629
80°	1007	3056	3022
85°	1116	3903	3991



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	1.9
10°-20°	111.5	6.5
20°-30°	195.8	11.3
30°-40°	257.7	14.9
40°-50°	283.5	16.4
50°-60°	280.9	16.3
60°-70°	258.5	15.0
70°-80°	207.3	12.0
80°-90°	98.6	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°	339.6	19.7
0°-40°	597.3	34.6
0°-60°	1161.7	67.3
0°-90°	1726.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1726.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	311	311	311	311	311	
5°	312	313	326	339	343	30
15°	304	344	403	443	458	86
25°	286	357	442	499	519	132
35°	259	345	434	488	506	162
45°	226	313	391	429	439	174
55°	184	273	342	362	364	164
65°	135	228	291	301	306	134
75°	85	171	228	232	232	90
85°	33	81	116	117	119	35
90°	0	0	0	0	0	



TEST NUMBER: P188353

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L830-CD1-PL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1
2.5°	311.8	312.5	311.8	311.8	311.8	311.8	311.8	311.8	311.8	311.8	312.5
5°	311.8	311.8	311.8	311.8	311.8	313.8	315.8	318.4	322.4	325.7	329.7
7.5°	311.1	311.1	311.1	311.8	315.8	321.1	327.7	334.3	341.6	347.6	352.9
10°	309.1	309.1	309.8	314.4	321.7	331.7	341.0	350.3	358.2	366.9	375.5
12.5°	307.8	307.8	309.8	318.4	329.7	342.3	353.6	364.9	376.1	386.1	396.0
15°	304.5	304.5	309.1	321.7	337.0	350.9	364.9	378.1	391.4	403.3	414.6
17.5°	301.2	301.2	308.5	325.1	341.6	357.6	373.5	389.4	404.0	417.3	429.9
20°	296.5	297.2	307.8	326.4	344.3	362.9	380.8	397.4	414.0	428.6	442.5
22.5°	291.9	292.6	306.5	327.1	346.3	366.2	385.4	404.0	421.3	436.5	451.8
25°	285.9	287.9	303.8	325.7	347.0	367.5	388.1	407.3	425.9	442.5	457.7
27.5°	280.0	282.6	300.5	323.1	345.6	366.9	388.1	408.6	427.2	445.1	460.4
30°	273.3	276.6	296.5	319.8	343.0	364.9	386.8	407.3	426.6	444.5	459.7
32.5°	266.7	270.0	291.2	315.1	338.3	360.9	382.8	404.0	422.6	440.5	456.4
35°	259.4	264.0	285.9	309.8	333.7	356.2	378.1	398.7	417.3	433.9	449.1
37.5°	250.8	256.7	278.6	303.2	327.1	349.6	370.8	391.4	409.3	425.2	439.8
40°	242.8	249.4	272.0	295.9	319.8	342.3	362.9	382.8	400.0	415.3	429.2
42.5°	234.8	242.1	264.0	287.9	311.1	333.7	354.3	372.8	389.4	403.3	416.6
45°	225.6	233.5	255.4	279.3	302.5	324.4	344.3	362.2	378.8	391.4	403.3
47.5°	215.6	224.9	246.8	270.7	293.2	314.4	334.3	350.9	366.2	379.5	390.1
50°	205.0	215.6	237.5	261.4	283.3	304.5	323.7	340.3	354.3	366.2	376.1
52.5°	195.0	205.7	227.5	250.8	273.3	294.5	313.1	329.0	342.3	354.3	362.9
55°	183.8	195.0	217.6	240.1	262.7	283.3	301.8	317.8	330.4	341.6	349.6
57.5°	172.5	184.4	206.3	229.5	251.4	272.7	291.2	306.5	319.1	329.0	336.3
60°	159.9	173.1	195.0	218.3	240.8	261.4	280.0	295.2	307.1	317.1	323.1
62.5°	147.9	161.2	184.4	207.0	228.9	250.1	268.7	283.3	295.2	304.5	309.8
65°	135.3	149.3	171.8	195.0	216.9	238.2	256.1	271.3	282.6	291.2	296.5
67.5°	123.4	137.3	159.2	181.8	203.7	225.6	242.8	257.4	268.7	277.3	281.9
70°	110.8	124.7	146.6	167.8	190.4	211.0	228.9	243.5	254.1	262.0	266.7
72.5°	98.2	112.8	132.7	154.6	175.8	197.0	213.6	228.2	238.8	246.1	250.1
75°	84.9	99.5	119.4	138.6	160.5	181.1	197.7	211.6	221.6	228.2	231.5
77.5°	72.3	85.6	104.8	124.1	143.3	163.2	179.1	193.0	201.0	207.0	210.3
80°	59.7	71.6	88.9	106.8	124.1	142.6	157.2	169.8	177.8	181.1	183.1
82.5°	47.1	57.7	71.0	86.9	102.2	117.4	130.7	141.3	147.3	151.9	153.2
85°	33.2	39.8	50.4	61.7	74.3	86.9	98.8	106.8	112.8	116.1	116.8
87.5°	17.2	19.9	25.2	31.8	41.1	49.8	56.4	61.7	66.3	69.7	73.0
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: P188353

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L830-CD1-PL-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1
2.5°	312.5	312.5	313.8	313.8	314.4	314.4	313.8	314.4
5°	332.4	335.0	339.0	339.0	341.6	343.0	343.0	343.0
7.5°	356.9	360.9	365.5	368.2	371.5	373.5	374.2	374.2
10°	380.8	386.8	392.1	396.0	400.0	402.0	404.0	404.0
12.5°	403.3	410.6	417.3	422.6	427.2	429.9	431.9	432.5
15°	423.9	433.2	439.8	446.5	451.8	455.1	457.1	458.4
17.5°	441.2	451.1	459.1	465.7	471.7	475.7	479.0	479.6
20°	454.4	465.0	474.3	481.6	488.3	492.2	495.6	496.2
22.5°	464.4	476.3	486.3	494.2	500.9	505.5	508.2	509.5
25°	471.0	482.9	494.2	502.9	510.1	514.8	516.8	518.8
27.5°	474.3	486.9	498.2	506.8	514.1	518.8	521.4	522.1
30°	474.3	486.3	497.5	506.2	512.8	517.4	520.1	521.4
32.5°	469.7	481.6	492.2	500.9	506.8	511.5	514.1	515.5
35°	462.4	473.7	484.3	491.6	498.2	501.5	504.8	505.5
37.5°	452.4	463.0	473.0	479.6	485.6	488.9	491.6	492.2
40°	440.5	450.4	459.1	465.0	470.3	473.7	475.7	477.0
42.5°	427.2	435.8	443.1	448.5	452.4	455.7	457.1	458.4
45°	412.6	419.9	426.6	431.2	434.5	436.5	438.5	439.2
47.5°	398.0	404.7	410.0	414.0	415.3	417.3	417.9	418.6
50°	383.4	388.7	393.4	395.4	397.4	398.7	398.7	399.4
52.5°	368.8	374.2	376.1	378.8	380.1	380.8	380.8	380.8
55°	354.9	358.9	360.9	362.2	362.9	364.2	364.2	364.2
57.5°	341.6	344.3	345.0	346.3	347.0	348.3	348.3	348.3
60°	327.1	329.7	330.4	331.0	331.7	333.0	333.7	333.7
62.5°	313.8	315.8	315.1	316.4	317.1	318.4	319.8	320.4
65°	299.2	300.5	300.5	301.2	303.2	303.8	305.2	305.8
67.5°	284.6	285.3	285.3	286.6	287.9	289.2	289.9	290.6
70°	268.0	269.3	268.7	270.0	271.3	272.7	274.0	274.0
72.5°	250.8	251.4	252.1	251.4	252.8	254.1	254.7	255.4
75°	230.9	232.2	232.2	230.9	231.5	231.5	232.2	232.2
77.5°	207.6	207.0	205.0	203.7	203.7	204.3	204.3	205.0
80°	181.1	179.8	178.5	177.1	177.1	177.8	177.8	179.1
82.5°	151.9	150.6	149.3	148.6	149.3	149.3	149.9	150.6
85°	117.4	115.4	117.4	116.1	117.4	117.4	117.4	118.7
87.5°	73.0	73.6	75.6	75.0	74.3	75.0	77.6	76.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)