

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: P188351

Luminaire Tested: **22SR-LD2-20-C-UNV-L850-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188351
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-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: 1975.0 lumens
Efficiency: N/A
Efficacy: 128.2 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

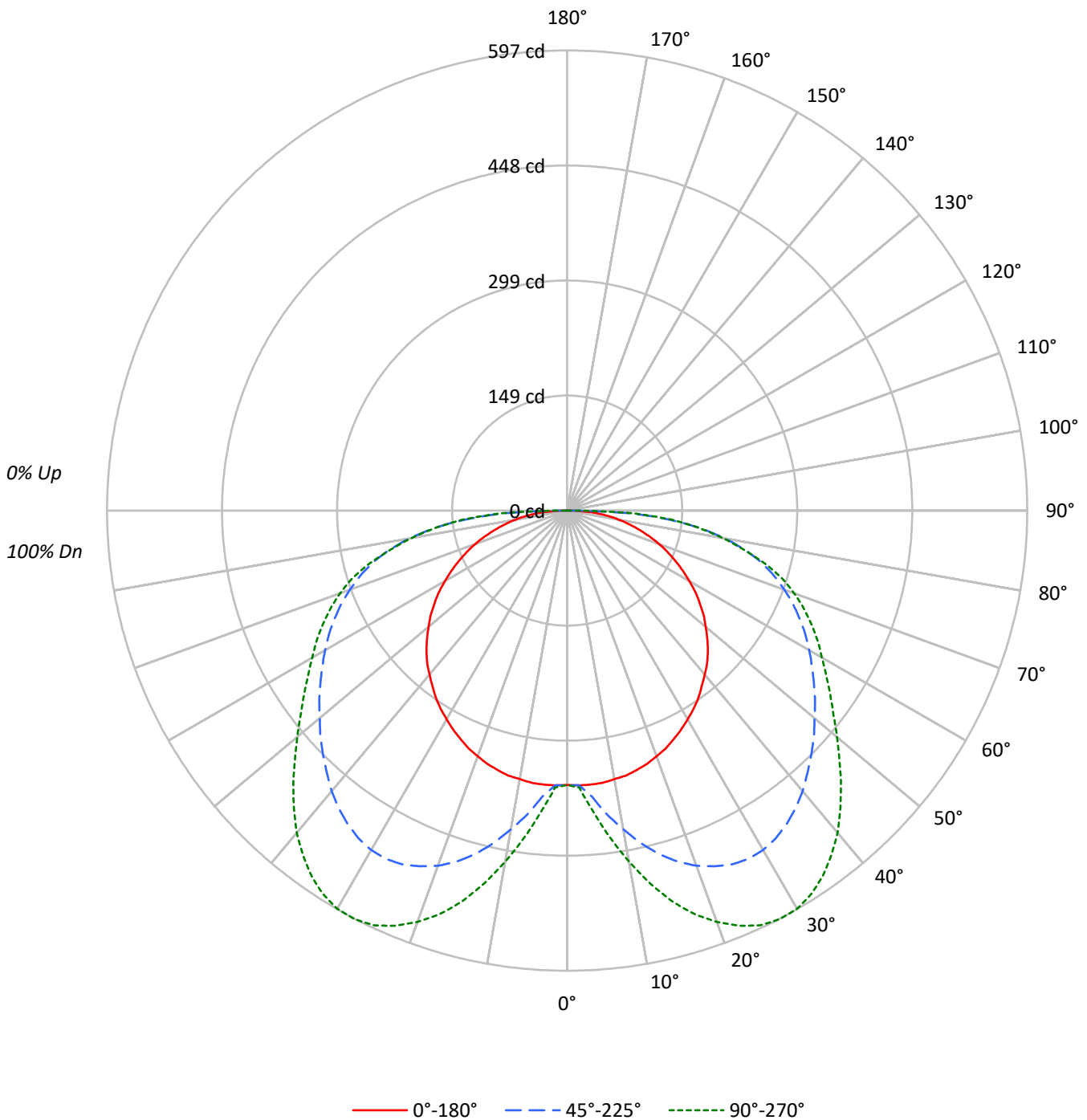
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P188351

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-PL-U

Luminous Intensity Polar Plot





TEST NUMBER: P188351

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-PL-U

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°	1043	1043	1043
5°	1049	1096	1154
10°	1052	1249	1375
15°	1057	1400	1591
20°	1058	1529	1770
25°	1058	1637	1919
30°	1058	1721	2019
35°	1062	1776	2069
40°	1063	1818	2088
45°	1069	1856	2082
50°	1069	1910	2083
55°	1074	1997	2129
60°	1072	2126	2237
65°	1074	2310	2426
70°	1086	2568	2686
75°	1100	2956	3008
80°	1152	3496	3459
85°	1278	4465	4569



TEST NUMBER: P188351

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-PL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.9	1.9
10°-20°	127.5	6.5
20°-30°	224.1	11.3
30°-40°	294.9	14.9
40°-50°	324.4	16.4
50°-60°	321.4	16.3
60°-70°	295.8	15.0
70°-80°	237.2	12.0
80°-90°	112.8	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°	388.5	19.7
0°-40°	683.5	34.6
0°-60°	1329.2	67.3
0°-90°	1975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	356	356	356	356	356	
5°	357	358	373	388	392	34
15°	348	394	462	507	524	98
25°	327	409	506	570	594	151
35°	297	395	496	558	578	186
45°	258	359	448	491	502	199
55°	210	312	391	414	417	188
65°	155	260	333	344	350	154
75°	97	195	261	265	266	103
85°	38	92	133	134	136	40
90°	0	0	0	0	0	



TEST NUMBER: P188351

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-PL-U

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0
2.5°	356.8	357.5	356.8	356.8	356.8	356.8	356.8	356.8	356.8	356.8	357.5
5°	356.8	356.8	356.8	356.8	356.8	359.1	361.3	364.4	368.9	372.7	377.3
7.5°	356.0	356.0	356.0	356.8	361.3	367.4	375.0	382.6	390.9	397.8	403.8
10°	353.7	353.7	354.5	359.8	368.2	379.5	390.2	400.8	409.9	419.8	429.6
12.5°	352.2	352.2	354.5	364.4	377.3	391.7	404.6	417.5	430.4	441.8	453.2
15°	348.4	348.4	353.7	368.2	385.6	401.6	417.5	432.7	447.9	461.5	474.4
17.5°	344.6	344.6	353.0	372.0	390.9	409.2	427.4	445.6	462.3	477.5	491.9
20°	339.3	340.1	352.2	373.5	394.0	415.2	435.7	454.7	473.7	490.4	506.3
22.5°	334.0	334.8	350.7	374.2	396.2	419.0	441.0	462.3	482.0	499.5	516.9
25°	327.2	329.4	347.7	372.7	397.0	420.5	444.1	466.1	487.3	506.3	523.8
27.5°	320.3	323.4	343.9	369.7	395.5	419.8	444.1	467.6	488.9	509.4	526.8
30°	312.7	316.5	339.3	365.9	392.5	417.5	442.6	466.1	488.1	508.6	526.1
32.5°	305.2	309.0	333.2	360.6	387.1	412.9	438.0	462.3	483.5	504.0	522.3
35°	296.8	302.1	327.2	354.5	381.8	407.6	432.7	456.2	477.5	496.4	513.9
37.5°	286.9	293.8	318.8	346.9	374.2	400.0	424.3	447.9	468.4	486.6	503.3
40°	277.8	285.4	311.2	338.6	365.9	391.7	415.2	438.0	457.7	475.2	491.1
42.5°	268.7	277.1	302.1	329.4	356.0	381.8	405.4	426.6	445.6	461.5	476.7
45°	258.1	267.2	292.3	319.6	346.1	371.2	394.0	414.5	433.4	447.9	461.5
47.5°	246.7	257.3	282.4	309.7	335.5	359.8	382.6	401.6	419.0	434.2	446.3
50°	234.6	246.7	271.8	299.1	324.1	348.4	370.4	389.4	405.4	419.0	430.4
52.5°	223.2	235.3	260.4	286.9	312.7	337.0	358.3	376.5	391.7	405.4	415.2
55°	210.3	223.2	249.0	274.8	300.6	324.1	345.4	363.6	378.0	390.9	400.0
57.5°	197.4	211.0	236.1	262.6	287.7	312.0	333.2	350.7	365.1	376.5	384.9
60°	182.9	198.1	223.2	249.7	275.6	299.1	320.3	337.8	351.5	362.8	369.7
62.5°	169.3	184.5	211.0	236.8	261.9	286.2	307.4	324.1	337.8	348.4	354.5
65°	154.9	170.8	196.6	223.2	248.2	272.5	293.0	310.5	323.4	333.2	339.3
67.5°	141.2	157.1	182.2	208.0	233.0	258.1	277.8	294.5	307.4	317.3	322.6
70°	126.8	142.7	167.8	192.1	217.9	241.4	261.9	278.6	290.7	299.8	305.2
72.5°	112.3	129.0	151.8	176.9	201.2	225.5	244.4	261.1	273.3	281.6	286.2
75°	97.2	113.9	136.6	158.7	183.7	207.2	226.2	242.2	253.5	261.1	264.9
77.5°	82.7	97.9	119.9	142.0	164.0	186.7	205.0	220.9	230.0	236.8	240.6
80°	68.3	82.0	101.7	122.2	142.0	163.2	179.9	194.3	203.4	207.2	209.5
82.5°	53.9	66.0	81.2	99.4	116.9	134.4	149.5	161.7	168.5	173.8	175.4
85°	38.0	45.5	57.7	70.6	85.0	99.4	113.1	122.2	129.0	132.8	133.6
87.5°	19.7	22.8	28.8	36.4	47.1	56.9	64.5	70.6	75.9	79.7	83.5
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: P188351

CATALOG NUMBER: 22SR-LD2-20-C-UNV-L850-CD1-PL-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	356.0	356.0	356.0	356.0	356.0	356.0	356.0	356.0
2.5°	357.5	357.5	359.1	359.1	359.8	359.8	359.1	359.8
5°	380.3	383.3	387.9	387.9	390.9	392.5	392.5	392.5
7.5°	408.4	412.9	418.3	421.3	425.1	427.4	428.1	428.1
10°	435.7	442.6	448.6	453.2	457.7	460.0	462.3	462.3
12.5°	461.5	469.9	477.5	483.5	488.9	491.9	494.2	494.9
15°	485.1	495.7	503.3	510.9	516.9	520.7	523.0	524.5
17.5°	504.8	516.2	525.3	532.9	539.7	544.3	548.1	548.8
20°	520.0	532.1	542.8	551.1	558.7	563.2	567.0	567.8
22.5°	531.4	545.0	556.4	565.5	573.1	578.4	581.5	583.0
25°	539.0	552.6	565.5	575.4	583.7	589.1	591.3	593.6
27.5°	542.8	557.2	570.1	579.9	588.3	593.6	596.6	597.4
30°	542.8	556.4	569.3	579.2	586.8	592.1	595.1	596.6
32.5°	537.4	551.1	563.2	573.1	579.9	585.3	588.3	589.8
35°	529.1	542.0	554.1	562.5	570.1	573.9	577.7	578.4
37.5°	517.7	529.8	541.2	548.8	555.7	559.5	562.5	563.2
40°	504.0	515.4	525.3	532.1	538.2	542.0	544.3	545.8
42.5°	488.9	498.7	507.1	513.1	517.7	521.5	523.0	524.5
45°	472.2	480.5	488.1	493.4	497.2	499.5	501.8	502.5
47.5°	455.5	463.0	469.1	473.7	475.2	477.5	478.2	479.0
50°	438.8	444.8	450.1	452.4	454.7	456.2	456.2	457.0
52.5°	422.1	428.1	430.4	433.4	435.0	435.7	435.7	435.7
55°	406.1	410.7	412.9	414.5	415.2	416.7	416.7	416.7
57.5°	390.9	394.0	394.7	396.2	397.0	398.5	398.5	398.5
60°	374.2	377.3	378.0	378.8	379.5	381.1	381.8	381.8
62.5°	359.1	361.3	360.6	362.1	362.8	364.4	365.9	366.6
65°	342.4	343.9	343.9	344.6	346.9	347.7	349.2	349.9
67.5°	325.7	326.4	326.4	327.9	329.4	331.0	331.7	332.5
70°	306.7	308.2	307.4	309.0	310.5	312.0	313.5	313.5
72.5°	286.9	287.7	288.5	287.7	289.2	290.7	291.5	292.3
75°	264.2	265.7	265.7	264.2	264.9	264.9	265.7	265.7
77.5°	237.6	236.8	234.6	233.0	233.0	233.8	233.8	234.6
80°	207.2	205.7	204.2	202.7	202.7	203.4	203.4	205.0
82.5°	173.8	172.3	170.8	170.0	170.8	170.8	171.6	172.3
85°	134.4	132.1	134.4	132.8	134.4	134.4	134.4	135.9
87.5°	83.5	84.3	86.5	85.8	85.0	85.8	88.8	87.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)