

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: P188428

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33586)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-20-C-UNV-L850-CD1-TB-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1410.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 2.03 / 1.86
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

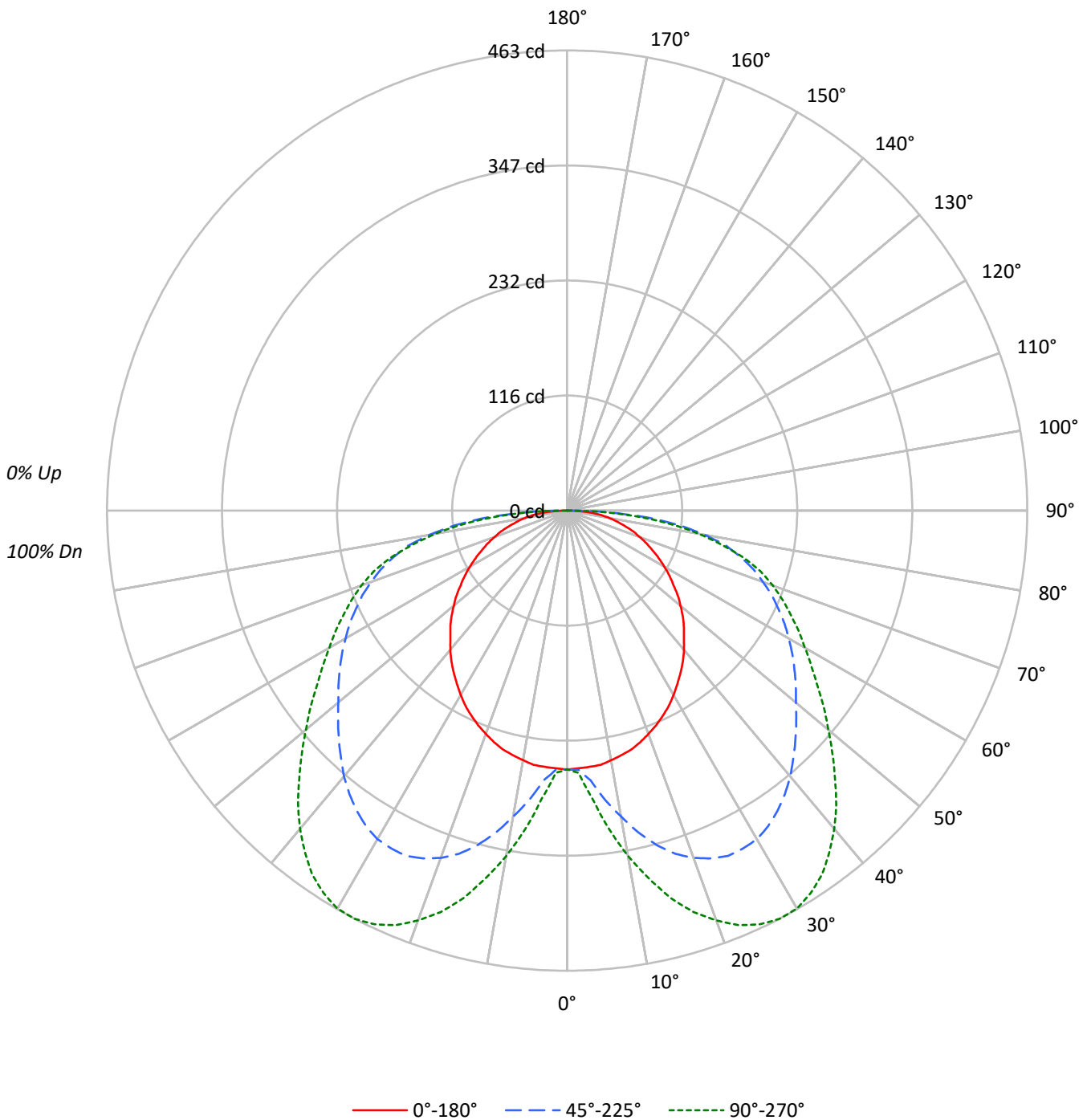
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	95	91	104	98	93	89	94	90	86	90	87	84	86	84	81	79
2	95	86	78	71	93	84	77	70	80	74	69	77	72	67	74	69	66	63
3	86	74	65	58	83	73	64	57	69	62	56	67	60	55	64	59	54	52
4	78	65	55	48	76	64	54	47	61	53	47	59	52	46	56	50	45	43
5	72	58	48	40	69	56	47	40	54	46	40	52	45	39	50	44	39	36
6	66	51	42	35	64	50	41	35	49	40	34	47	39	34	45	39	34	31
7	61	46	37	30	59	45	37	30	44	36	30	42	35	30	41	34	29	27
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24
9	53	38	30	24	51	38	29	24	37	29	24	35	28	23	34	28	23	21
10	49	35	27	21	48	35	27	21	34	26	21	33	26	21	32	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	701	701	701
5°	699	736	785
10°	697	854	965
15°	694	971	1125
20°	685	1065	1256
25°	676	1138	1363
30°	665	1186	1436
35°	653	1212	1469
40°	642	1227	1469
45°	632	1236	1450
50°	623	1258	1436
55°	613	1310	1442
60°	609	1385	1487
65°	604	1494	1580
70°	609	1648	1732
75°	624	1879	1918
80°	671	2176	2083
85°	726	2507	2272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.3	1.9
10°-20°	95.9	6.8
20°-30°	168.5	12.0
30°-40°	218.7	15.5
40°-50°	234.8	16.7
50°-60°	227.8	16.2
60°-70°	205.8	14.6
70°-80°	162.1	11.5
80°-90°	69.2	4.9
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°	291.6	20.7
0°-40°	510.4	36.2
0°-60°	972.9	69.0
0°-90°	1410.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	260	260	260	260	260	
5°	259	261	272	286	291	25
15°	249	288	348	390	404	70
25°	228	298	383	440	459	105
35°	199	281	369	428	447	125
45°	166	246	325	368	381	128
55°	131	211	279	304	307	117
65°	95	175	235	246	248	94
75°	60	131	181	183	184	64
85°	24	59	81	76	74	25
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°	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4
2.5°	259.6	259.6	259.6	259.6	260.4	259.6	260.4	261.1	261.1	261.1	261.9
5°	258.8	259.6	259.6	259.6	260.4	261.9	263.4	266.4	270.2	272.5	275.5
7.5°	258.1	258.1	258.1	259.6	262.6	268.0	274.0	280.9	287.7	293.8	299.8
10°	255.0	255.8	256.6	261.1	268.0	277.1	286.9	296.8	304.4	312.7	321.1
12.5°	252.0	252.8	255.8	263.4	274.8	286.9	298.3	310.5	322.6	331.7	342.3
15°	249.0	249.7	254.3	266.4	280.9	294.5	308.9	323.4	335.5	348.4	359.8
17.5°	244.4	245.2	252.8	268.7	284.6	301.3	317.3	334.0	348.4	362.1	374.2
20°	239.1	240.6	250.5	268.7	286.9	305.1	323.4	340.8	356.8	371.9	386.4
22.5°	233.8	236.1	248.2	268.7	288.4	308.2	327.9	346.1	362.8	378.8	394.0
25°	227.7	230.0	245.2	267.2	287.7	308.2	329.4	348.4	365.9	383.3	398.5
27.5°	221.6	224.7	241.4	263.4	285.4	306.7	327.9	347.7	365.9	383.3	400.0
30°	214.1	217.9	236.8	259.6	281.6	303.6	324.9	345.4	363.6	381.8	397.8
32.5°	206.5	211.0	230.8	253.5	276.3	298.3	319.6	340.1	358.3	376.5	393.2
35°	198.9	204.2	224.7	247.5	270.2	291.5	312.7	333.2	351.4	368.9	385.6
37.5°	191.3	196.6	217.1	239.9	262.6	283.9	304.4	324.1	343.1	359.8	375.7
40°	182.9	189.0	210.3	232.3	254.3	275.5	295.3	315.0	332.5	349.2	363.6
42.5°	173.8	181.4	201.9	223.9	245.2	265.7	285.4	304.4	321.8	337.0	350.7
45°	166.2	173.1	193.6	215.6	236.1	256.6	276.3	294.5	310.5	324.9	337.8
47.5°	157.9	165.5	185.2	207.2	227.7	246.7	266.4	283.1	299.1	312.7	324.9
50°	148.8	157.9	176.9	198.1	219.4	238.3	257.3	273.3	288.4	300.6	312.0
52.5°	140.4	149.5	169.3	189.8	210.3	230.0	246.7	263.4	277.8	290.0	299.8
55°	130.6	141.9	160.9	181.4	201.2	220.9	238.3	254.3	268.0	279.3	288.4
57.5°	122.2	133.6	152.6	173.1	192.8	211.8	229.2	244.4	258.1	268.7	276.3
60°	113.1	125.2	144.2	164.7	183.7	202.7	220.1	235.3	247.5	257.3	264.9
62.5°	104.0	116.9	135.9	155.6	174.6	193.6	211.0	225.4	236.8	246.7	252.8
65°	94.9	107.8	127.5	146.5	165.5	184.5	200.4	214.8	226.2	234.6	240.6
67.5°	86.5	99.4	118.4	136.6	156.4	173.8	190.5	204.2	214.8	223.2	227.7
70°	77.4	91.1	108.5	126.8	145.7	163.2	179.1	192.0	202.7	209.5	214.1
72.5°	69.8	82.0	98.7	116.1	134.4	151.8	167.0	180.7	189.8	196.6	199.6
75°	60.0	72.9	88.8	105.5	123.0	139.7	154.1	166.2	175.3	180.7	183.7
77.5°	51.6	64.5	78.9	93.4	110.1	126.0	139.7	151.1	159.4	164.0	165.5
80°	43.3	53.9	66.8	80.5	94.9	109.3	122.2	132.1	138.9	140.4	141.2
82.5°	34.2	42.5	53.1	65.3	77.4	88.8	100.2	107.0	113.1	113.9	113.9
85°	23.5	28.8	36.4	44.8	53.9	63.8	72.1	77.4	79.7	81.2	81.2
87.5°	12.1	14.4	18.2	21.3	26.6	33.4	38.0	38.7	41.0	41.7	43.3
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°	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4
2.5°	262.6	262.6	263.4	263.4	263.4	264.2	264.2	264.2
5°	279.3	281.6	284.6	287.7	288.4	290.7	290.7	290.7
7.5°	303.6	308.2	312.7	316.5	319.6	320.3	321.8	323.4
10°	328.7	334.0	340.8	344.6	346.9	349.9	350.7	353.0
12.5°	350.7	358.3	364.4	370.4	374.2	377.3	378.0	378.8
15°	368.9	378.8	387.1	393.2	397.0	400.0	403.1	403.8
17.5°	385.6	395.5	403.8	410.7	416.7	420.5	422.0	423.6
20°	398.5	409.1	418.2	425.8	431.9	435.7	438.0	438.7
22.5°	407.6	419.0	428.9	437.2	442.5	447.8	450.1	451.6
25°	412.9	425.1	435.7	444.1	450.9	455.4	458.5	459.2
27.5°	414.4	427.4	438.0	447.1	453.9	458.5	461.5	463.0
30°	412.9	425.8	437.2	446.3	453.2	457.7	460.8	462.3
32.5°	407.6	420.5	431.9	441.0	447.8	452.4	454.7	456.2
35°	399.3	412.2	423.6	431.9	438.0	443.3	445.6	447.1
37.5°	389.4	401.5	411.4	419.8	425.1	429.6	432.7	433.4
40°	376.5	387.9	397.0	405.3	410.7	414.4	416.7	418.2
42.5°	362.8	372.7	381.1	387.9	394.0	397.8	400.0	400.8
45°	349.2	357.5	365.1	371.2	375.0	378.8	380.3	381.1
47.5°	334.7	343.1	349.2	354.5	357.5	359.8	361.3	362.1
50°	321.1	327.9	333.2	337.0	339.3	341.6	343.1	343.1
52.5°	307.4	313.5	317.3	320.3	323.4	324.9	325.6	325.6
55°	295.3	299.1	302.9	304.4	305.1	305.9	307.4	307.4
57.5°	282.4	285.4	287.7	289.2	290.0	291.5	291.5	291.5
60°	269.5	271.7	272.5	274.0	274.8	275.5	276.3	276.3
62.5°	256.6	258.1	259.6	259.6	260.4	261.9	261.9	262.6
65°	242.9	244.4	245.2	245.9	246.7	247.5	248.2	248.2
67.5°	230.0	230.8	230.8	231.5	232.3	233.8	234.6	234.6
70°	215.6	215.6	215.6	216.3	217.1	218.6	219.4	220.1
72.5°	200.4	200.4	200.4	201.2	201.9	203.4	204.2	204.2
75°	183.7	183.7	182.9	183.7	182.9	183.7	182.9	184.5
77.5°	164.0	161.7	160.9	160.2	158.6	159.4	158.6	159.4
80°	139.7	137.4	135.1	134.4	134.4	133.6	132.8	134.4
82.5°	111.6	109.3	107.8	107.0	107.0	107.0	107.8	106.3
85°	79.7	77.4	75.9	75.9	74.4	74.4	74.4	73.6
87.5°	39.5	41.0	40.2	40.2	38.0	36.4	37.2	37.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)