

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: P188422

Luminaire Tested: **22SR-LD2-25-C-UNV-L850-CD1-TB-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188422
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-LD2-25-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: 1774.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

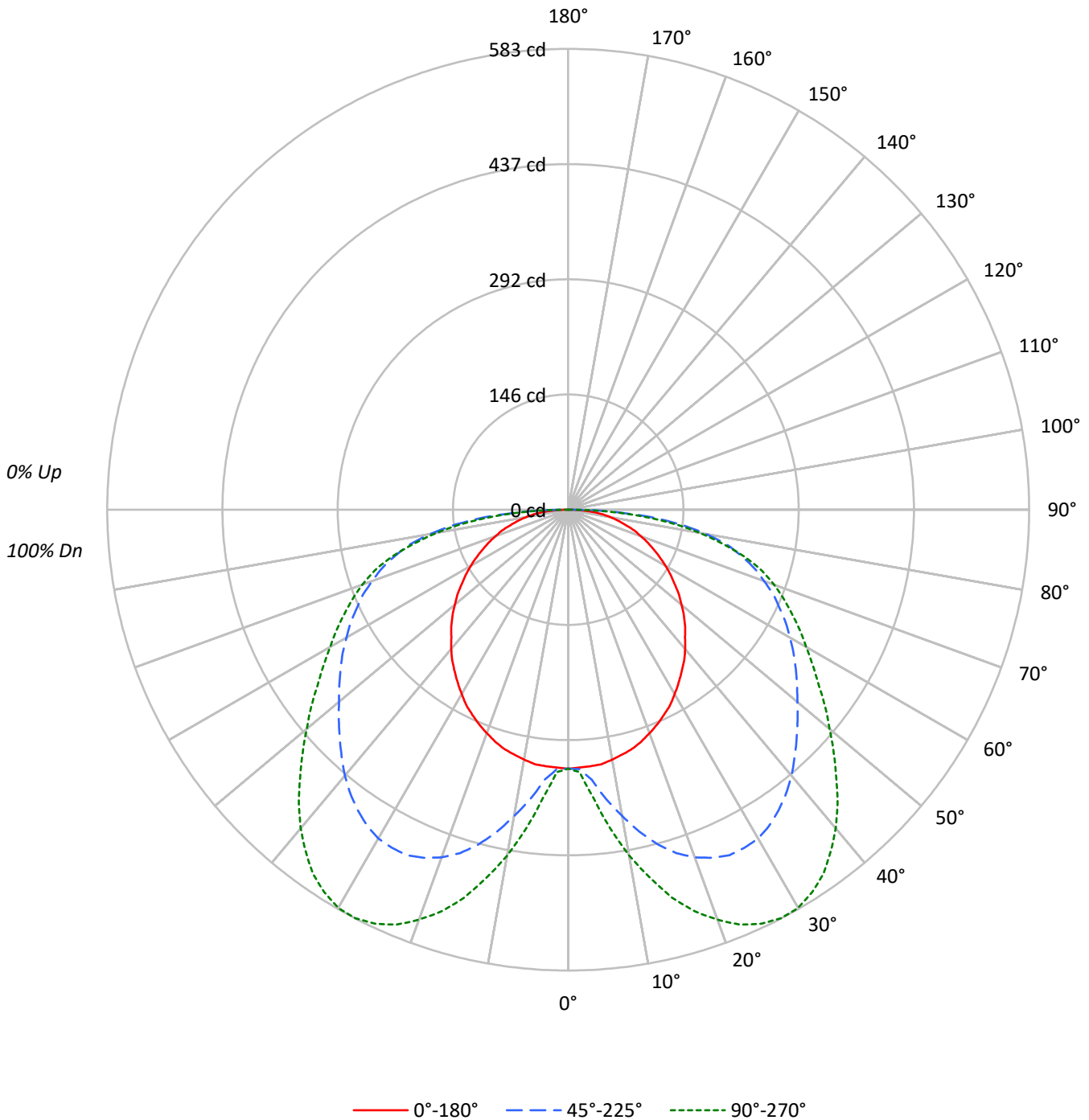
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	882	882	882
5°	880	926	988
10°	877	1075	1213
15°	873	1221	1416
20°	861	1340	1581
25°	851	1432	1716
30°	837	1493	1807
35°	822	1525	1848
40°	809	1543	1848
45°	796	1555	1824
50°	784	1583	1807
55°	771	1649	1815
60°	766	1743	1871
65°	760	1879	1989
70°	766	2074	2179
75°	784	2363	2413
80°	843	2738	2619
85°	914	3155	2859



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	1.9
10°-20°	120.6	6.8
20°-30°	212.0	12.0
30°-40°	275.2	15.5
40°-50°	295.4	16.7
50°-60°	286.6	16.2
60°-70°	258.9	14.6
70°-80°	204.0	11.5
80°-90°	87.0	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°	366.9	20.7
0°-40°	642.1	36.2
0°-60°	1224.1	69.0
0°-90°	1774.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1774.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	328	328	328	328	328	
5°	326	329	343	360	366	31
15°	313	362	438	491	508	88
25°	286	375	482	553	578	132
35°	250	353	464	538	562	157
45°	209	310	409	463	479	161
55°	164	266	351	382	387	148
65°	119	220	295	309	312	119
75°	75	165	227	231	232	80
85°	30	74	102	96	93	31
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°	327.6	327.6	327.6	327.6	327.6	327.6	327.6	327.6	327.6	327.6	327.6
2.5°	326.6	326.6	326.6	326.6	327.6	326.6	327.6	328.5	328.5	328.5	329.5
5°	325.7	326.6	326.6	326.6	327.6	329.5	331.4	335.2	340.0	342.9	346.7
7.5°	324.7	324.7	324.7	326.6	330.4	337.1	344.8	353.4	362.0	369.6	377.2
10°	320.9	321.8	322.8	328.5	337.1	348.6	361.0	373.4	383.0	393.5	404.0
12.5°	317.1	318.0	321.8	331.4	345.7	361.0	375.3	390.6	405.9	417.3	430.7
15°	313.2	314.2	319.9	335.2	353.4	370.5	388.7	406.8	422.1	438.4	452.7
17.5°	307.5	308.5	318.0	338.1	358.1	379.1	399.2	420.2	438.4	455.5	470.8
20°	300.8	302.7	315.2	338.1	361.0	383.9	406.8	428.8	448.9	468.0	486.1
22.5°	294.1	297.0	312.3	338.1	362.9	387.7	412.6	435.5	456.5	476.6	495.7
25°	286.5	289.4	308.5	336.2	362.0	387.7	414.5	438.4	460.3	482.3	501.4
27.5°	278.9	282.7	303.7	331.4	359.1	385.8	412.6	437.4	460.3	482.3	503.3
30°	269.3	274.1	298.0	326.6	354.3	382.0	408.7	434.5	457.5	480.4	500.4
32.5°	259.8	265.5	290.3	319.0	347.6	375.3	402.1	427.9	450.8	473.7	494.7
35°	250.2	256.9	282.7	311.3	340.0	366.7	393.5	419.3	442.2	464.1	485.2
37.5°	240.7	247.4	273.1	301.8	330.4	357.2	383.0	407.8	431.7	452.7	472.7
40°	230.2	237.8	264.5	292.2	319.9	346.7	371.5	396.3	418.3	439.3	457.5
42.5°	218.7	228.3	254.0	281.7	308.5	334.3	359.1	383.0	404.9	424.0	441.2
45°	209.1	217.7	243.5	271.2	297.0	322.8	347.6	370.5	390.6	408.7	425.0
47.5°	198.6	208.2	233.0	260.7	286.5	310.4	335.2	356.2	376.3	393.5	408.7
50°	187.2	198.6	222.5	249.3	276.0	299.9	323.8	343.8	362.9	378.2	392.5
52.5°	176.7	188.1	213.0	238.8	264.5	289.4	310.4	331.4	349.5	364.8	377.2
55°	164.3	178.6	202.5	228.3	253.1	277.9	299.9	319.9	337.1	351.4	362.9
57.5°	153.8	168.1	192.0	217.7	242.6	266.5	288.4	307.5	324.7	338.1	347.6
60°	142.3	157.6	181.5	207.2	231.1	255.0	277.0	296.1	311.3	323.8	333.3
62.5°	130.8	147.1	170.9	195.8	219.7	243.5	265.5	283.6	298.0	310.4	318.0
65°	119.4	135.6	160.4	184.3	208.2	232.1	252.1	270.3	284.6	295.1	302.7
67.5°	108.9	125.1	149.0	171.9	196.7	218.7	239.7	256.9	270.3	280.8	286.5
70°	97.4	114.6	136.6	159.5	183.4	205.3	225.4	241.6	255.0	263.6	269.3
72.5°	87.9	103.1	124.2	146.1	169.0	191.0	210.1	227.3	238.8	247.4	251.2
75°	75.4	91.7	111.7	132.7	154.7	175.7	193.9	209.1	220.6	227.3	231.1
77.5°	64.9	81.2	99.3	117.5	138.5	158.5	175.7	190.0	200.6	206.3	208.2
80°	54.4	67.8	84.0	101.2	119.4	137.5	153.8	166.2	174.8	176.7	177.6
82.5°	43.0	53.5	66.9	82.1	97.4	111.7	126.1	134.7	142.3	143.3	143.3
85°	29.6	36.3	45.8	56.3	67.8	80.2	90.7	97.4	100.3	102.2	102.2
87.5°	15.3	18.1	22.9	26.7	33.4	42.0	47.8	48.7	51.6	52.5	54.4
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°	327.6	327.6	327.6	327.6	327.6	327.6	327.6	327.6
2.5°	330.4	330.4	331.4	331.4	331.4	332.3	332.3	332.3
5°	351.4	354.3	358.1	362.0	362.9	365.8	365.8	365.8
7.5°	382.0	387.7	393.5	398.2	402.1	403.0	404.9	406.8
10°	413.5	420.2	428.8	433.6	436.4	440.3	441.2	444.1
12.5°	441.2	450.8	458.4	466.1	470.8	474.6	475.6	476.6
15°	464.1	476.6	487.1	494.7	499.5	503.3	507.1	508.1
17.5°	485.2	497.6	508.1	516.7	524.3	529.1	531.0	532.9
20°	501.4	514.8	526.2	535.8	543.4	548.2	551.0	552.0
22.5°	512.8	527.2	539.6	550.1	556.8	563.5	566.3	568.2
25°	519.5	534.8	548.2	558.7	567.3	573.0	576.8	577.8
27.5°	521.4	537.7	551.0	562.5	571.1	576.8	580.7	582.6
30°	519.5	535.8	550.1	561.6	570.1	575.9	579.7	581.6
32.5°	512.8	529.1	543.4	554.9	563.5	569.2	572.1	574.0
35°	502.3	518.6	532.9	543.4	551.0	557.7	560.6	562.5
37.5°	489.9	505.2	517.6	528.1	534.8	540.5	544.4	545.3
40°	473.7	488.0	499.5	510.0	516.7	521.4	524.3	526.2
42.5°	456.5	468.9	479.4	488.0	495.7	500.4	503.3	504.3
45°	439.3	449.8	459.4	467.0	471.8	476.6	478.5	479.4
47.5°	421.2	431.7	439.3	446.0	449.8	452.7	454.6	455.5
50°	404.0	412.6	419.3	424.0	426.9	429.8	431.7	431.7
52.5°	386.8	394.4	399.2	403.0	406.8	408.7	409.7	409.7
55°	371.5	376.3	381.1	383.0	383.9	384.9	386.8	386.8
57.5°	355.3	359.1	362.0	363.9	364.8	366.7	366.7	366.7
60°	339.0	341.9	342.9	344.8	345.7	346.7	347.6	347.6
62.5°	322.8	324.7	326.6	326.6	327.6	329.5	329.5	330.4
65°	305.6	307.5	308.5	309.4	310.4	311.3	312.3	312.3
67.5°	289.4	290.3	290.3	291.3	292.2	294.1	295.1	295.1
70°	271.2	271.2	271.2	272.2	273.1	275.0	276.0	277.0
72.5°	252.1	252.1	252.1	253.1	254.0	255.9	256.9	256.9
75°	231.1	231.1	230.2	231.1	230.2	231.1	230.2	232.1
77.5°	206.3	203.4	202.5	201.5	199.6	200.6	199.6	200.6
80°	175.7	172.9	170.0	169.0	169.0	168.1	167.1	169.0
82.5°	140.4	137.5	135.6	134.7	134.7	134.7	135.6	133.7
85°	100.3	97.4	95.5	95.5	93.6	93.6	93.6	92.6
87.5°	49.7	51.6	50.6	50.6	47.8	45.8	46.8	46.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)