

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: P188425

Luminaire Tested: **22SR-LD2-25-C-UNV-L835-CD1-TB-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188425
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-L835-CD1-TB-U
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1598.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

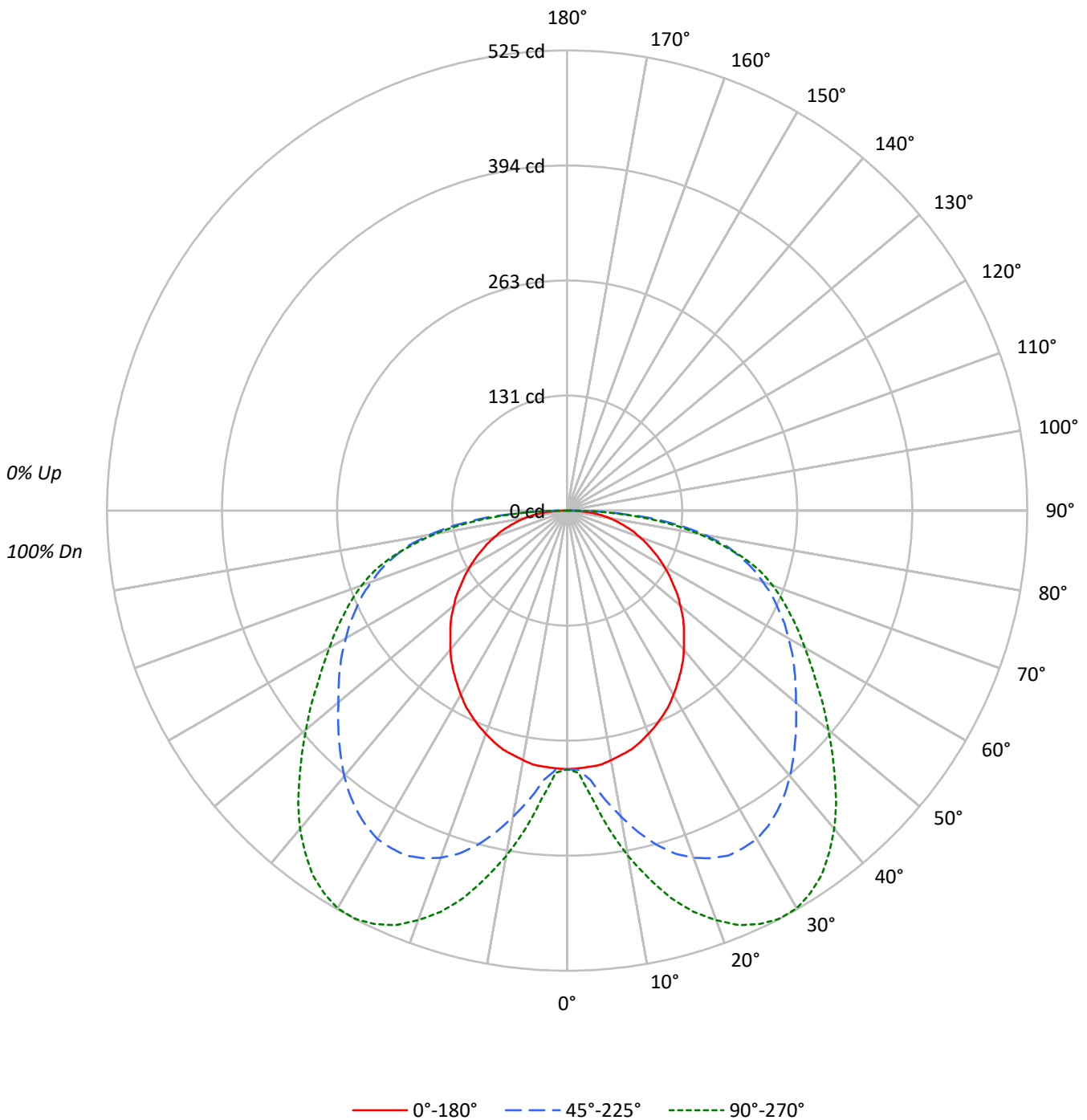
Input Watts (W): 19.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	794	794	794
5°	793	834	890
10°	790	968	1093
15°	786	1100	1275
20°	776	1207	1424
25°	766	1290	1545
30°	754	1345	1628
35°	740	1373	1665
40°	728	1390	1665
45°	717	1401	1644
50°	706	1426	1628
55°	694	1485	1635
60°	690	1569	1685
65°	684	1692	1791
70°	690	1868	1963
75°	707	2128	2173
80°	759	2467	2360
85°	824	2841	2575



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	1.9
10°-20°	108.6	6.8
20°-30°	191.0	12.0
30°-40°	247.9	15.5
40°-50°	266.1	16.7
50°-60°	258.2	16.2
60°-70°	233.2	14.6
70°-80°	183.7	11.5
80°-90°	78.4	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°	330.5	20.7
0°-40°	578.4	36.2
0°-60°	1102.7	69.0
0°-90°	1598.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1598.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	295	295	295	295	295	
5°	293	296	309	324	330	28
15°	282	326	395	442	458	79
25°	258	338	434	499	520	119
35°	225	318	418	485	507	141
45°	188	279	368	417	432	145
55°	148	239	317	344	348	133
65°	108	198	266	278	281	107
75°	68	149	205	208	209	72
85°	27	67	92	86	83	28
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°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	294.2	294.2	294.2	294.2	295.1	294.2	295.1	295.9	295.9	295.9	296.8
5°	293.4	294.2	294.2	294.2	295.1	296.8	298.5	302.0	306.3	308.8	312.3
7.5°	292.5	292.5	292.5	294.2	297.7	303.7	310.6	318.3	326.0	332.9	339.8
10°	289.1	289.9	290.8	295.9	303.7	314.0	325.2	336.4	345.0	354.4	363.9
12.5°	285.6	286.5	289.9	298.5	311.4	325.2	338.1	351.9	365.6	375.9	388.0
15°	282.2	283.0	288.2	302.0	318.3	333.8	350.1	366.5	380.2	394.9	407.8
17.5°	277.0	277.9	286.5	304.5	322.6	341.5	359.6	378.5	394.9	410.4	424.1
20°	271.0	272.7	283.9	304.5	325.2	345.8	366.5	386.3	404.3	421.5	437.9
22.5°	265.0	267.5	281.3	304.5	326.9	349.3	371.6	392.3	411.2	429.3	446.5
25°	258.1	260.7	277.9	302.8	326.0	349.3	373.4	394.9	414.7	434.4	451.6
27.5°	251.2	254.6	273.6	298.5	323.5	347.6	371.6	394.0	414.7	434.4	453.4
30°	242.6	246.9	268.4	294.2	319.2	344.1	368.2	391.4	412.1	432.7	450.8
32.5°	234.0	239.2	261.5	287.3	313.1	338.1	362.2	385.4	406.0	426.7	445.6
35°	225.4	231.4	254.6	280.4	306.3	330.3	354.4	377.7	398.3	418.1	437.0
37.5°	216.8	222.8	246.0	271.8	297.7	321.7	345.0	367.3	388.8	407.8	425.8
40°	207.3	214.2	238.3	263.2	288.2	312.3	334.6	357.0	376.8	395.7	412.1
42.5°	197.0	205.6	228.8	253.8	277.9	301.1	323.5	345.0	364.8	382.0	397.4
45°	188.4	196.1	219.4	244.3	267.5	290.8	313.1	333.8	351.9	368.2	382.8
47.5°	178.9	187.5	209.9	234.9	258.1	279.6	302.0	320.9	338.9	354.4	368.2
50°	168.6	178.9	200.4	224.5	248.6	270.1	291.6	309.7	326.9	340.7	353.6
52.5°	159.2	169.5	191.8	215.1	238.3	260.7	279.6	298.5	314.9	328.6	339.8
55°	148.0	160.9	182.4	205.6	228.0	250.3	270.1	288.2	303.7	316.6	326.9
57.5°	138.5	151.4	172.9	196.1	218.5	240.0	259.8	277.0	292.5	304.5	313.1
60°	128.2	141.9	163.5	186.7	208.2	229.7	249.5	266.7	280.4	291.6	300.2
62.5°	117.9	132.5	154.0	176.4	197.9	219.4	239.2	255.5	268.4	279.6	286.5
65°	107.5	122.2	144.5	166.0	187.5	209.0	227.1	243.5	256.4	265.8	272.7
67.5°	98.1	112.7	134.2	154.8	177.2	197.0	215.9	231.4	243.5	252.9	258.1
70°	87.7	103.2	123.0	143.7	165.2	185.0	203.0	217.6	229.7	237.4	242.6
72.5°	79.1	92.9	111.8	131.6	152.3	172.1	189.3	204.7	215.1	222.8	226.3
75°	68.0	82.6	100.7	119.6	139.4	158.3	174.6	188.4	198.7	204.7	208.2
77.5°	58.5	73.1	89.5	105.8	124.7	142.8	158.3	171.2	180.7	185.8	187.5
80°	49.0	61.1	75.7	91.2	107.5	123.9	138.5	149.7	157.4	159.2	160.0
82.5°	38.7	48.2	60.2	74.0	87.7	100.7	113.6	121.3	128.2	129.0	129.0
85°	26.7	32.7	41.3	50.8	61.1	72.3	81.7	87.7	90.3	92.0	92.0
87.5°	13.8	16.3	20.6	24.1	30.1	37.9	43.0	43.9	46.5	47.3	49.0
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°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	297.7	297.7	298.5	298.5	298.5	299.4	299.4	299.4
5°	316.6	319.2	322.6	326.0	326.9	329.5	329.5	329.5
7.5°	344.1	349.3	354.4	358.7	362.2	363.0	364.8	366.5
10°	372.5	378.5	386.3	390.6	393.1	396.6	397.4	400.0
12.5°	397.4	406.0	412.9	419.8	424.1	427.6	428.4	429.3
15°	418.1	429.3	438.7	445.6	449.9	453.4	456.8	457.7
17.5°	437.0	448.2	457.7	465.4	472.3	476.6	478.3	480.0
20°	451.6	463.7	474.0	482.6	489.5	493.8	496.4	497.2
22.5°	462.0	474.9	486.1	495.5	501.5	507.6	510.1	511.9
25°	468.0	481.8	493.8	503.3	511.0	516.2	519.6	520.5
27.5°	469.7	484.3	496.4	506.7	514.4	519.6	523.0	524.8
30°	468.0	482.6	495.5	505.8	513.6	518.7	522.2	523.9
32.5°	462.0	476.6	489.5	499.8	507.6	512.7	515.3	517.0
35°	452.5	467.1	480.0	489.5	496.4	502.4	505.0	506.7
37.5°	441.3	455.1	466.3	475.7	481.8	486.9	490.4	491.2
40°	426.7	439.6	449.9	459.4	465.4	469.7	472.3	474.0
42.5°	411.2	422.4	431.9	439.6	446.5	450.8	453.4	454.2
45°	395.7	405.2	413.8	420.7	425.0	429.3	431.0	431.9
47.5°	379.4	388.8	395.7	401.7	405.2	407.8	409.5	410.4
50°	363.9	371.6	377.7	382.0	384.5	387.1	388.8	388.8
52.5°	348.4	355.3	359.6	363.0	366.5	368.2	369.1	369.1
55°	334.6	338.9	343.2	345.0	345.8	346.7	348.4	348.4
57.5°	320.0	323.5	326.0	327.8	328.6	330.3	330.3	330.3
60°	305.4	308.0	308.8	310.6	311.4	312.3	313.1	313.1
62.5°	290.8	292.5	294.2	294.2	295.1	296.8	296.8	297.7
65°	275.3	277.0	277.9	278.7	279.6	280.4	281.3	281.3
67.5°	260.7	261.5	261.5	262.4	263.2	265.0	265.8	265.8
70°	244.3	244.3	244.3	245.2	246.0	247.8	248.6	249.5
72.5°	227.1	227.1	227.1	228.0	228.8	230.6	231.4	231.4
75°	208.2	208.2	207.3	208.2	207.3	208.2	207.3	209.0
77.5°	185.8	183.2	182.4	181.5	179.8	180.7	179.8	180.7
80°	158.3	155.7	153.1	152.3	152.3	151.4	150.5	152.3
82.5°	126.5	123.9	122.2	121.3	121.3	121.3	122.2	120.4
85°	90.3	87.7	86.0	86.0	84.3	84.3	84.3	83.4
87.5°	44.7	46.5	45.6	45.6	43.0	41.3	42.2	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)