

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: P188426

Luminaire Tested: **22SR-LD2-20-C-UNV-L835-CD1-TB-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188426
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-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: 1271.0 lumens
Efficiency: N/A
Efficacy: 82.5 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

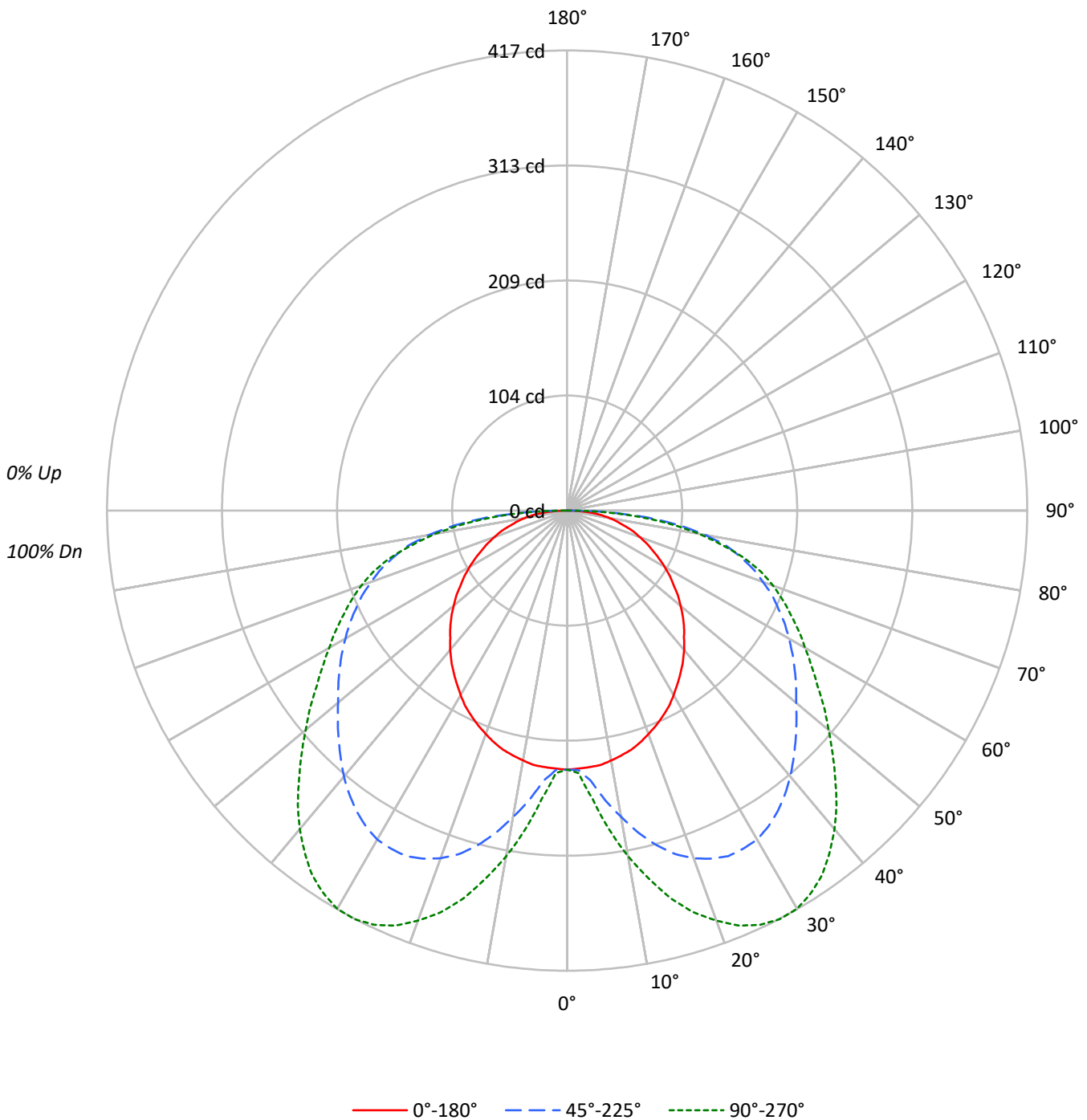
Input Watts (W): 15.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	632	632	632
5°	630	663	708
10°	628	770	869
15°	625	875	1014
20°	617	960	1133
25°	610	1026	1229
30°	600	1070	1295
35°	589	1092	1324
40°	579	1105	1324
45°	570	1115	1307
50°	561	1135	1295
55°	552	1181	1300
60°	549	1249	1341
65°	544	1346	1424
70°	549	1485	1561
75°	562	1693	1729
80°	604	1962	1877
85°	655	2260	2050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.6	1.9
10°-20°	86.4	6.8
20°-30°	151.9	12.0
30°-40°	197.2	15.5
40°-50°	211.6	16.7
50°-60°	205.3	16.2
60°-70°	185.5	14.6
70°-80°	146.1	11.5
80°-90°	62.4	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°	262.9	20.7
0°-40°	460.0	36.2
0°-60°	877.0	69.0
0°-90°	1271.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1271.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	235	235	235	235	235	
5°	233	235	246	258	262	22
15°	224	259	314	352	364	63
25°	205	269	346	397	414	95
35°	179	253	332	386	403	112
45°	150	222	293	332	344	116
55°	118	190	252	274	277	106
65°	86	158	211	221	224	85
75°	54	118	163	165	166	58
85°	21	53	73	68	66	22
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°	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.7
2.5°	234.0	234.0	234.0	234.0	234.7	234.0	234.7	235.4	235.4	235.4	236.1
5°	233.3	234.0	234.0	234.0	234.7	236.1	237.4	240.2	243.6	245.6	248.4
7.5°	232.6	232.6	232.6	234.0	236.7	241.5	247.0	253.2	259.3	264.8	270.3
10°	229.9	230.6	231.3	235.4	241.5	249.7	258.6	267.5	274.4	281.9	289.4
12.5°	227.2	227.9	230.6	237.4	247.7	258.6	268.9	279.9	290.8	299.0	308.6
15°	224.4	225.1	229.2	240.2	253.2	265.5	278.5	291.5	302.4	314.1	324.3
17.5°	220.3	221.0	227.9	242.2	256.6	271.6	286.0	301.1	314.1	326.4	337.3
20°	215.5	216.9	225.8	242.2	258.6	275.1	291.5	307.2	321.6	335.3	348.3
22.5°	210.7	212.8	223.7	242.2	260.0	277.8	295.6	312.0	327.1	341.4	355.1
25°	205.3	207.3	221.0	240.9	259.3	277.8	297.0	314.1	329.8	345.5	359.2
27.5°	199.8	202.5	217.6	237.4	257.3	276.4	295.6	313.4	329.8	345.5	360.6
30°	193.0	196.4	213.5	234.0	253.9	273.7	292.9	311.3	327.7	344.2	358.5
32.5°	186.1	190.2	208.0	228.5	249.1	268.9	288.1	306.5	323.0	339.4	354.4
35°	179.3	184.1	202.5	223.1	243.6	262.7	281.9	300.4	316.8	332.5	347.6
37.5°	172.4	177.2	195.7	216.2	236.7	255.9	274.4	292.2	309.3	324.3	338.7
40°	164.9	170.4	189.5	209.4	229.2	248.4	266.2	284.0	299.7	314.7	327.7
42.5°	156.7	163.5	182.0	201.8	221.0	239.5	257.3	274.4	290.1	303.8	316.1
45°	149.8	156.0	174.5	194.3	212.8	231.3	249.1	265.5	279.9	292.9	304.5
47.5°	142.3	149.2	167.0	186.8	205.3	222.4	240.2	255.2	269.6	281.9	292.9
50°	134.1	142.3	159.4	178.6	197.7	214.8	232.0	246.3	260.0	271.0	281.2
52.5°	126.6	134.8	152.6	171.1	189.5	207.3	222.4	237.4	250.4	261.4	270.3
55°	117.7	128.0	145.1	163.5	181.3	199.1	214.8	229.2	241.5	251.8	260.0
57.5°	110.2	120.4	137.5	156.0	173.8	190.9	206.6	220.3	232.6	242.2	249.1
60°	102.0	112.9	130.0	148.5	165.6	182.7	198.4	212.1	223.1	232.0	238.8
62.5°	93.7	105.4	122.5	140.3	157.4	174.5	190.2	203.2	213.5	222.4	227.9
65°	85.5	97.2	115.0	132.1	149.2	166.3	180.6	193.6	203.9	211.4	216.9
67.5°	78.0	89.6	106.7	123.2	141.0	156.7	171.7	184.1	193.6	201.2	205.3
70°	69.8	82.1	97.8	114.3	131.4	147.1	161.5	173.1	182.7	188.8	193.0
72.5°	62.9	73.9	89.0	104.7	121.1	136.8	150.5	162.8	171.1	177.2	180.0
75°	54.1	65.7	80.1	95.1	110.8	125.9	138.9	149.8	158.1	162.8	165.6
77.5°	46.5	58.2	71.2	84.2	99.2	113.6	125.9	136.2	143.7	147.8	149.2
80°	39.0	48.6	60.2	72.5	85.5	98.5	110.2	119.1	125.2	126.6	127.3
82.5°	30.8	38.3	47.9	58.8	69.8	80.1	90.3	96.5	102.0	102.6	102.6
85°	21.2	26.0	32.8	40.4	48.6	57.5	65.0	69.8	71.8	73.2	73.2
87.5°	10.9	13.0	16.4	19.2	23.9	30.1	34.2	34.9	36.9	37.6	39.0
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°	234.7	234.7	234.7	234.7	234.7	234.7	234.7	234.7
2.5°	236.7	236.7	237.4	237.4	237.4	238.1	238.1	238.1
5°	251.8	253.9	256.6	259.3	260.0	262.1	262.1	262.1
7.5°	273.7	277.8	281.9	285.3	288.1	288.7	290.1	291.5
10°	296.3	301.1	307.2	310.6	312.7	315.4	316.1	318.2
12.5°	316.1	323.0	328.4	333.9	337.3	340.1	340.7	341.4
15°	332.5	341.4	349.0	354.4	357.9	360.6	363.3	364.0
17.5°	347.6	356.5	364.0	370.2	375.6	379.1	380.4	381.8
20°	359.2	368.8	377.0	383.9	389.3	392.8	394.8	395.5
22.5°	367.4	377.7	386.6	394.1	398.9	403.7	405.8	407.1
25°	372.2	383.2	392.8	400.3	406.4	410.5	413.3	414.0
27.5°	373.6	385.2	394.8	403.0	409.2	413.3	416.0	417.4
30°	372.2	383.9	394.1	402.3	408.5	412.6	415.3	416.7
32.5°	367.4	379.1	389.3	397.5	403.7	407.8	409.9	411.2
35°	359.9	371.5	381.8	389.3	394.8	399.6	401.6	403.0
37.5°	351.0	362.0	370.9	378.4	383.2	387.3	390.0	390.7
40°	339.4	349.6	357.9	365.4	370.2	373.6	375.6	377.0
42.5°	327.1	336.0	343.5	349.6	355.1	358.5	360.6	361.3
45°	314.7	322.3	329.1	334.6	338.0	341.4	342.8	343.5
47.5°	301.7	309.3	314.7	319.5	322.3	324.3	325.7	326.4
50°	289.4	295.6	300.4	303.8	305.9	307.9	309.3	309.3
52.5°	277.1	282.6	286.0	288.7	291.5	292.9	293.5	293.5
55°	266.2	269.6	273.0	274.4	275.1	275.7	277.1	277.1
57.5°	254.5	257.3	259.3	260.7	261.4	262.7	262.7	262.7
60°	242.9	245.0	245.6	247.0	247.7	248.4	249.1	249.1
62.5°	231.3	232.6	234.0	234.0	234.7	236.1	236.1	236.7
65°	219.0	220.3	221.0	221.7	222.4	223.1	223.7	223.7
67.5°	207.3	208.0	208.0	208.7	209.4	210.7	211.4	211.4
70°	194.3	194.3	194.3	195.0	195.7	197.1	197.7	198.4
72.5°	180.6	180.6	180.6	181.3	182.0	183.4	184.1	184.1
75°	165.6	165.6	164.9	165.6	164.9	165.6	164.9	166.3
77.5°	147.8	145.7	145.1	144.4	143.0	143.7	143.0	143.7
80°	125.9	123.8	121.8	121.1	121.1	120.4	119.7	121.1
82.5°	100.6	98.5	97.2	96.5	96.5	96.5	97.2	95.8
85°	71.8	69.8	68.4	68.4	67.1	67.1	67.1	66.4
87.5°	35.6	36.9	36.3	36.3	34.2	32.8	33.5	33.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)