

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: P188434

Luminaire Tested: **22SR-LD2-19-C-UNV-L835-CD1-TB-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188434
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-LD2-19-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: 1214.0 lumens
Efficiency: N/A
Efficacy: 82.6 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

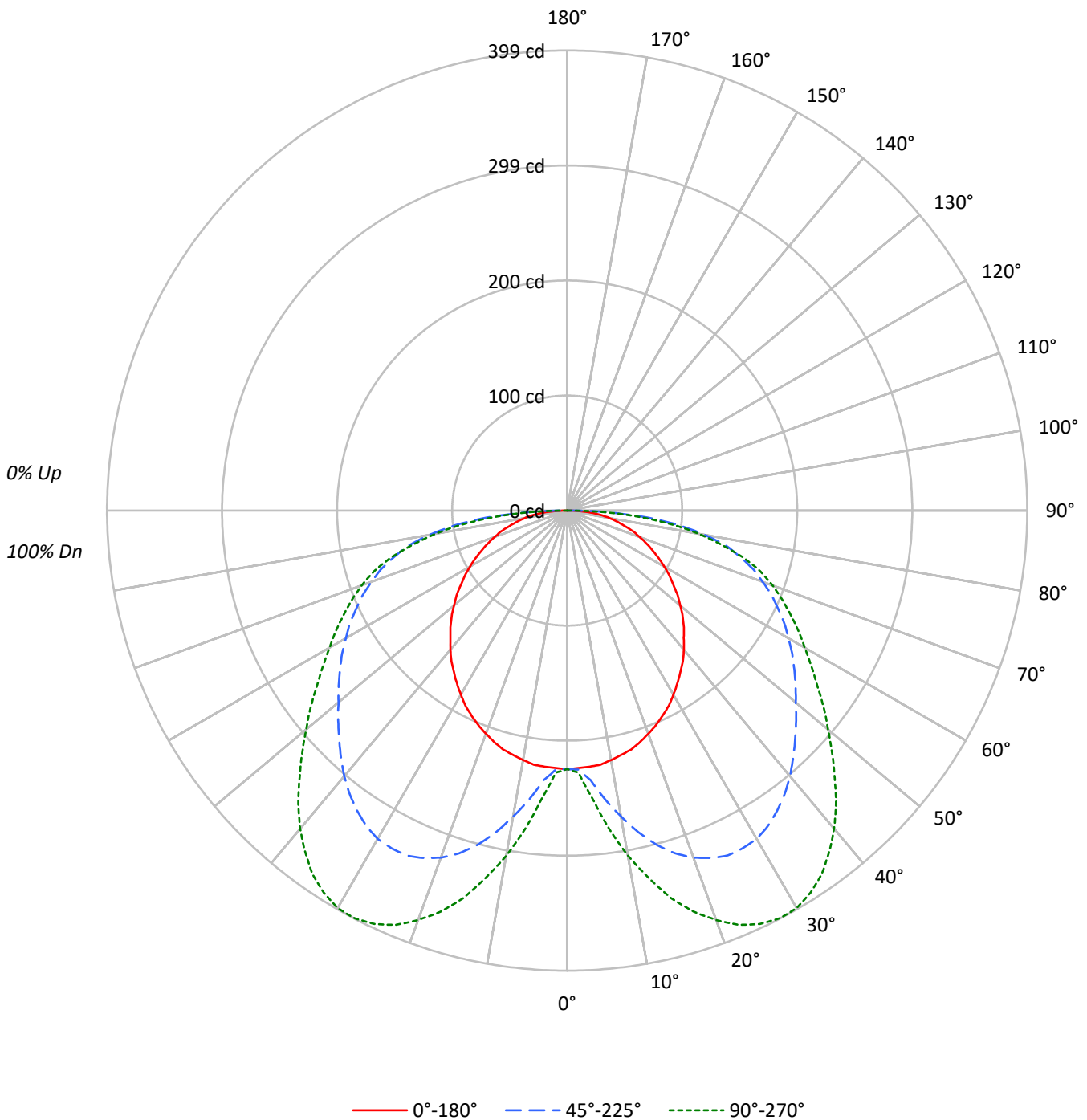
Input Watts (W): 14.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	603	603	603
5°	602	634	676
10°	600	736	830
15°	597	836	969
20°	590	917	1082
25°	582	980	1174
30°	573	1021	1237
35°	562	1043	1264
40°	553	1056	1265
45°	545	1064	1249
50°	536	1083	1237
55°	527	1128	1242
60°	524	1193	1280
65°	520	1286	1361
70°	525	1419	1491
75°	536	1617	1651
80°	578	1874	1793
85°	627	2158	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.5	1.9
10°-20°	82.5	6.8
20°-30°	145.1	12.0
30°-40°	188.3	15.5
40°-50°	202.1	16.7
50°-60°	196.1	16.2
60°-70°	177.2	14.6
70°-80°	139.6	11.5
80°-90°	59.6	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°	251.1	20.7
0°-40°	439.4	36.2
0°-60°	837.7	69.0
0°-90°	1214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	224	224	224	224	224	
5°	223	225	235	246	250	21
15°	214	248	300	336	348	60
25°	196	256	330	379	395	90
35°	171	242	318	368	385	107
45°	143	212	280	317	328	110
55°	112	182	240	261	265	101
65°	82	151	202	211	214	81
75°	52	113	156	158	159	55
85°	20	51	70	65	63	21
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°	224.2	224.2	224.2	224.2	224.2	224.2	224.2	224.2	224.2	224.2	224.2
2.5°	223.5	223.5	223.5	223.5	224.2	223.5	224.2	224.8	224.8	224.8	225.5
5°	222.9	223.5	223.5	223.5	224.2	225.5	226.8	229.4	232.7	234.6	237.2
7.5°	222.2	222.2	222.2	223.5	226.1	230.7	235.9	241.8	247.7	252.9	258.2
10°	219.6	220.2	220.9	224.8	230.7	238.5	247.0	255.5	262.1	269.3	276.5
12.5°	217.0	217.6	220.2	226.8	236.6	247.0	256.8	267.3	277.8	285.6	294.8
15°	214.4	215.0	218.9	229.4	241.8	253.6	266.0	278.4	288.9	300.0	309.8
17.5°	210.4	211.1	217.6	231.4	245.1	259.5	273.2	287.6	300.0	311.7	322.2
20°	205.9	207.2	215.7	231.4	247.0	262.7	278.4	293.4	307.2	320.2	332.7
22.5°	201.3	203.3	213.7	231.4	248.3	265.3	282.3	298.0	312.4	326.1	339.2
25°	196.1	198.0	211.1	230.0	247.7	265.3	283.6	300.0	315.0	330.0	343.1
27.5°	190.8	193.5	207.8	226.8	245.7	264.0	282.3	299.3	315.0	330.0	344.4
30°	184.3	187.6	203.9	223.5	242.5	261.4	279.7	297.4	313.1	328.7	342.5
32.5°	177.8	181.7	198.7	218.3	237.9	256.8	275.1	292.8	308.5	324.2	338.5
35°	171.2	175.8	193.5	213.1	232.7	251.0	269.3	286.9	302.6	317.6	332.0
37.5°	164.7	169.3	186.9	206.5	226.1	244.4	262.1	279.1	295.4	309.8	323.5
40°	157.5	162.7	181.0	200.0	218.9	237.2	254.2	271.2	286.3	300.6	313.1
42.5°	149.7	156.2	173.8	192.8	211.1	228.7	245.7	262.1	277.1	290.2	301.9
45°	143.1	149.0	166.7	185.6	203.3	220.9	237.9	253.6	267.3	279.7	290.8
47.5°	135.9	142.5	159.5	178.4	196.1	212.4	229.4	243.8	257.5	269.3	279.7
50°	128.1	135.9	152.3	170.6	188.9	205.2	221.6	235.3	248.3	258.8	268.6
52.5°	120.9	128.7	145.7	163.4	181.0	198.0	212.4	226.8	239.2	249.7	258.2
55°	112.4	122.2	138.6	156.2	173.2	190.2	205.2	218.9	230.7	240.5	248.3
57.5°	105.2	115.0	131.4	149.0	166.0	182.3	197.4	210.4	222.2	231.4	237.9
60°	97.4	107.8	124.2	141.8	158.2	174.5	189.5	202.6	213.1	221.6	228.1
62.5°	89.5	100.6	117.0	134.0	150.3	166.7	181.7	194.1	203.9	212.4	217.6
65°	81.7	92.8	109.8	126.1	142.5	158.8	172.5	185.0	194.8	201.9	207.2
67.5°	74.5	85.6	102.0	117.6	134.6	149.7	164.0	175.8	185.0	192.1	196.1
70°	66.7	78.4	93.5	109.1	125.5	140.5	154.2	165.3	174.5	180.4	184.3
72.5°	60.1	70.6	85.0	100.0	115.7	130.7	143.8	155.5	163.4	169.3	171.9
75°	51.6	62.7	76.5	90.8	105.9	120.3	132.7	143.1	151.0	155.5	158.2
77.5°	44.4	55.6	68.0	80.4	94.8	108.5	120.3	130.1	137.2	141.2	142.5
80°	37.3	46.4	57.5	69.3	81.7	94.1	105.2	113.7	119.6	120.9	121.6
82.5°	29.4	36.6	45.7	56.2	66.7	76.5	86.3	92.2	97.4	98.0	98.0
85°	20.3	24.8	31.4	38.6	46.4	54.9	62.1	66.7	68.6	69.9	69.9
87.5°	10.5	12.4	15.7	18.3	22.9	28.8	32.7	33.3	35.3	35.9	37.3
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°	224.2	224.2	224.2	224.2	224.2	224.2	224.2	224.2
2.5°	226.1	226.1	226.8	226.8	226.8	227.4	227.4	227.4
5°	240.5	242.5	245.1	247.7	248.3	250.3	250.3	250.3
7.5°	261.4	265.3	269.3	272.5	275.1	275.8	277.1	278.4
10°	283.0	287.6	293.4	296.7	298.7	301.3	301.9	303.9
12.5°	301.9	308.5	313.7	318.9	322.2	324.8	325.5	326.1
15°	317.6	326.1	333.3	338.5	341.8	344.4	347.0	347.7
17.5°	332.0	340.5	347.7	353.6	358.8	362.1	363.4	364.7
20°	343.1	352.3	360.1	366.6	371.9	375.1	377.1	377.8
22.5°	351.0	360.8	369.3	376.4	381.0	385.6	387.6	388.9
25°	355.5	366.0	375.1	382.3	388.2	392.1	394.7	395.4
27.5°	356.8	367.9	377.1	384.9	390.8	394.7	397.4	398.7
30°	355.5	366.6	376.4	384.3	390.2	394.1	396.7	398.0
32.5°	351.0	362.1	371.9	379.7	385.6	389.5	391.5	392.8
35°	343.8	354.9	364.7	371.9	377.1	381.7	383.6	384.9
37.5°	335.3	345.7	354.2	361.4	366.0	369.9	372.5	373.2
40°	324.2	334.0	341.8	349.0	353.6	356.8	358.8	360.1
42.5°	312.4	320.9	328.1	334.0	339.2	342.5	344.4	345.1
45°	300.6	307.8	314.4	319.6	322.9	326.1	327.4	328.1
47.5°	288.2	295.4	300.6	305.2	307.8	309.8	311.1	311.7
50°	276.5	282.3	286.9	290.2	292.1	294.1	295.4	295.4
52.5°	264.7	269.9	273.2	275.8	278.4	279.7	280.4	280.4
55°	254.2	257.5	260.8	262.1	262.7	263.4	264.7	264.7
57.5°	243.1	245.7	247.7	249.0	249.7	251.0	251.0	251.0
60°	232.0	234.0	234.6	235.9	236.6	237.2	237.9	237.9
62.5°	220.9	222.2	223.5	223.5	224.2	225.5	225.5	226.1
65°	209.1	210.4	211.1	211.8	212.4	213.1	213.7	213.7
67.5°	198.0	198.7	198.7	199.3	200.0	201.3	201.9	201.9
70°	185.6	185.6	185.6	186.3	186.9	188.2	188.9	189.5
72.5°	172.5	172.5	172.5	173.2	173.8	175.2	175.8	175.8
75°	158.2	158.2	157.5	158.2	157.5	158.2	157.5	158.8
77.5°	141.2	139.2	138.6	137.9	136.6	137.2	136.6	137.2
80°	120.3	118.3	116.3	115.7	115.7	115.0	114.4	115.7
82.5°	96.1	94.1	92.8	92.2	92.2	92.2	92.8	91.5
85°	68.6	66.7	65.4	65.4	64.0	64.0	64.0	63.4
87.5°	34.0	35.3	34.6	34.6	32.7	31.4	32.0	32.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)