

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: P188430

Luminaire Tested: **22SR-LD2-19-C-UNV-L850-CD1-TB-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188430  
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-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**

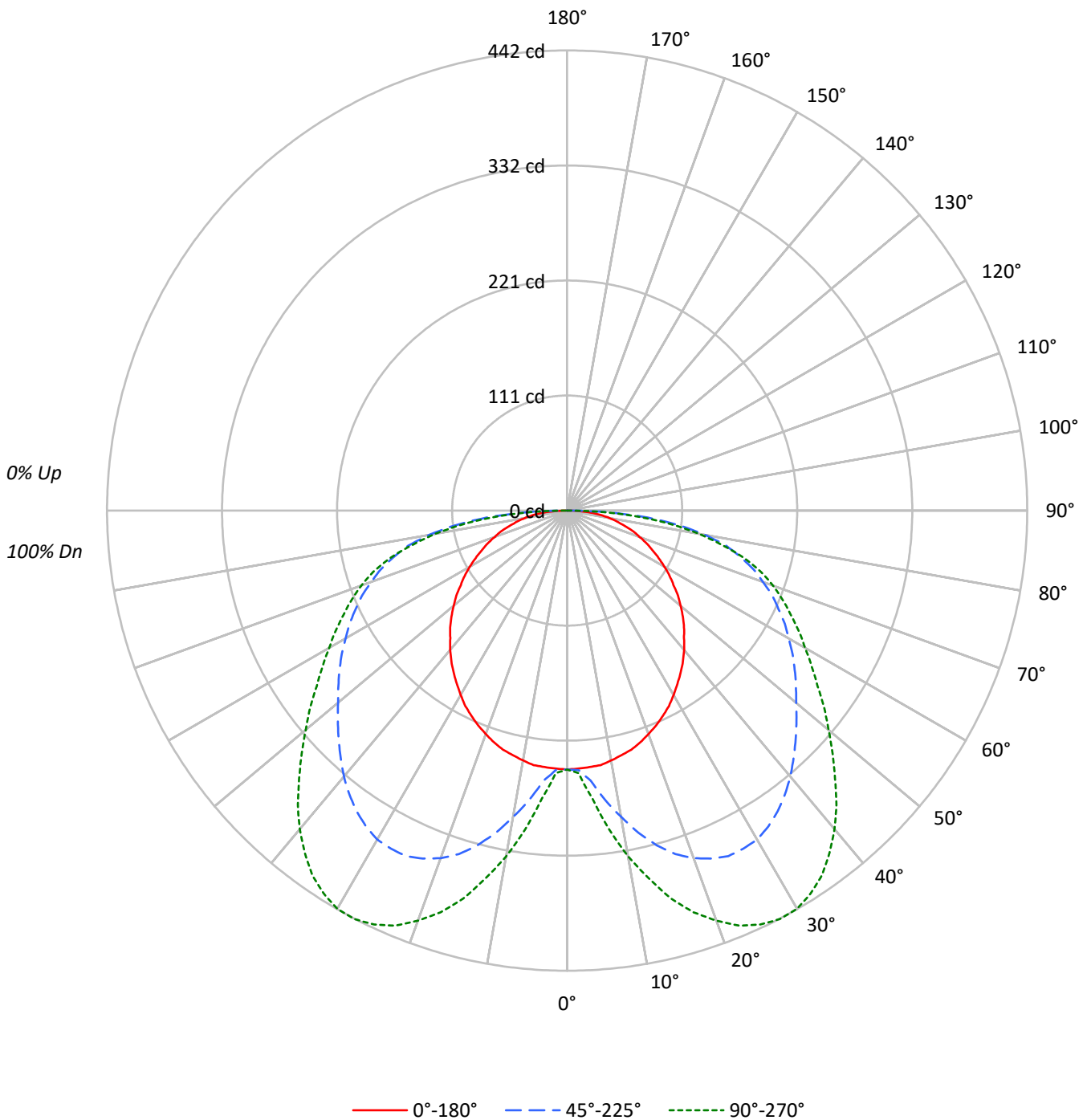
Lumens per Lamp: N/A  
Luminaire Lumens: 1347.0 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 2.03 / 1.86  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	669	669	669
5°	668	703	750
10°	666	816	921
15°	662	927	1075
20°	654	1017	1200
25°	646	1087	1303
30°	635	1134	1372
35°	624	1158	1403
40°	614	1172	1404
45°	604	1181	1385
50°	595	1202	1372
55°	585	1252	1378
60°	581	1323	1421
65°	577	1427	1510
70°	582	1574	1655
75°	596	1795	1832
80°	640	2080	1990
85°	695	2396	2171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.1	1.9
10°-20°	91.6	6.8
20°-30°	161.0	12.0
30°-40°	208.9	15.5
40°-50°	224.3	16.7
50°-60°	217.6	16.2
60°-70°	196.6	14.6
70°-80°	154.9	11.5
80°-90°	66.1	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°	278.6	20.7
0°-40°	487.6	36.2
0°-60°	929.5	69.0
0°-90°	1347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	249	249	249	249	249	
5°	247	249	260	273	278	24
15°	238	275	333	373	386	67
25°	218	285	366	420	439	100
35°	190	268	352	409	427	119
45°	159	235	310	352	364	122
55°	125	202	267	290	294	112
65°	91	167	224	235	237	90
75°	57	125	173	175	176	61
85°	22	56	78	72	70	24
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°	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7
2.5°	248.0	248.0	248.0	248.0	248.7	248.0	248.7	249.5	249.5	249.5	250.2
5°	247.3	248.0	248.0	248.0	248.7	250.2	251.6	254.5	258.2	260.3	263.2
7.5°	246.6	246.6	246.6	248.0	250.9	256.0	261.8	268.3	274.8	280.6	286.4
10°	243.7	244.4	245.1	249.5	256.0	264.7	274.1	283.5	290.8	298.8	306.7
12.5°	240.7	241.5	244.4	251.6	262.5	274.1	285.0	296.6	308.2	316.9	327.0
15°	237.8	238.6	242.9	254.5	268.3	281.4	295.1	308.9	320.5	332.8	343.7
17.5°	233.5	234.2	241.5	256.7	271.9	287.9	303.1	319.1	332.8	345.9	357.5
20°	228.4	229.9	239.3	256.7	274.1	291.5	308.9	325.6	340.8	355.3	369.1
22.5°	223.3	225.5	237.1	256.7	275.6	294.4	313.3	330.7	346.6	361.8	376.4
25°	217.5	219.7	234.2	255.3	274.8	294.4	314.7	332.8	349.5	366.2	380.7
27.5°	211.7	214.6	230.6	251.6	272.7	293.0	313.3	332.1	349.5	366.2	382.2
30°	204.5	208.1	226.2	248.0	269.0	290.1	310.4	329.9	347.3	364.8	380.0
32.5°	197.2	201.6	220.4	242.2	264.0	285.0	305.3	324.9	342.3	359.7	375.6
35°	190.0	195.1	214.6	236.4	258.2	278.5	298.8	318.3	335.7	352.4	368.4
37.5°	182.7	187.8	207.4	229.1	250.9	271.2	290.8	309.6	327.8	343.7	358.9
40°	174.8	180.6	200.9	221.9	242.9	263.2	282.1	300.9	317.6	333.6	347.3
42.5°	166.1	173.3	192.9	213.9	234.2	253.8	272.7	290.8	307.5	322.0	335.0
45°	158.8	165.3	184.9	205.9	225.5	245.1	264.0	281.4	296.6	310.4	322.7
47.5°	150.8	158.1	176.9	198.0	217.5	235.7	254.5	270.5	285.7	298.8	310.4
50°	142.1	150.8	169.0	189.3	209.6	227.7	245.8	261.1	275.6	287.2	298.0
52.5°	134.2	142.9	161.7	181.3	200.9	219.7	235.7	251.6	265.4	277.0	286.4
55°	124.7	135.6	153.7	173.3	192.2	211.0	227.7	242.9	256.0	266.9	275.6
57.5°	116.7	127.6	145.8	165.3	184.2	202.3	219.0	233.5	246.6	256.7	264.0
60°	108.0	119.6	137.8	157.4	175.5	193.6	210.3	224.8	236.4	245.8	253.1
62.5°	99.3	111.7	129.8	148.7	166.8	184.9	201.6	215.4	226.2	235.7	241.5
65°	90.6	103.0	121.8	140.0	158.1	176.2	191.4	205.2	216.1	224.1	229.9
67.5°	82.7	95.0	113.1	130.5	149.4	166.1	182.0	195.1	205.2	213.2	217.5
70°	74.0	87.0	103.7	121.1	139.2	155.9	171.1	183.5	193.6	200.1	204.5
72.5°	66.7	78.3	94.3	110.9	128.4	145.0	159.5	172.6	181.3	187.8	190.7
75°	57.3	69.6	84.8	100.8	117.5	133.4	147.2	158.8	167.5	172.6	175.5
77.5°	49.3	61.6	75.4	89.2	105.1	120.4	133.4	144.3	152.3	156.6	158.1
80°	41.3	51.5	63.8	76.9	90.6	104.4	116.7	126.2	132.7	134.2	134.9
82.5°	32.6	40.6	50.8	62.4	74.0	84.8	95.7	102.2	108.0	108.8	108.8
85°	22.5	27.6	34.8	42.8	51.5	60.9	68.9	74.0	76.1	77.6	77.6
87.5°	11.6	13.8	17.4	20.3	25.4	31.9	36.3	37.0	39.2	39.9	41.3
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°	248.7	248.7	248.7	248.7	248.7	248.7	248.7	248.7
2.5°	250.9	250.9	251.6	251.6	251.6	252.4	252.4	252.4
5°	266.9	269.0	271.9	274.8	275.6	277.7	277.7	277.7
7.5°	290.1	294.4	298.8	302.4	305.3	306.0	307.5	308.9
10°	314.0	319.1	325.6	329.2	331.4	334.3	335.0	337.2
12.5°	335.0	342.3	348.1	353.9	357.5	360.4	361.1	361.8
15°	352.4	361.8	369.8	375.6	379.3	382.2	385.1	385.8
17.5°	368.4	377.8	385.8	392.3	398.1	401.7	403.2	404.6
20°	380.7	390.9	399.6	406.8	412.6	416.2	418.4	419.1
22.5°	389.4	400.3	409.7	417.7	422.8	427.8	430.0	431.5
25°	394.5	406.1	416.2	424.2	430.7	435.1	438.0	438.7
27.5°	395.9	408.3	418.4	427.1	433.6	438.0	440.9	442.3
30°	394.5	406.8	417.7	426.4	432.9	437.3	440.2	441.6
32.5°	389.4	401.7	412.6	421.3	427.8	432.2	434.4	435.8
35°	381.4	393.8	404.6	412.6	418.4	423.5	425.7	427.1
37.5°	372.0	383.6	393.0	401.0	406.1	410.4	413.3	414.1
40°	359.7	370.6	379.3	387.2	392.3	395.9	398.1	399.6
42.5°	346.6	356.0	364.0	370.6	376.4	380.0	382.2	382.9
45°	333.6	341.5	348.8	354.6	358.2	361.8	363.3	364.0
47.5°	319.8	327.8	333.6	338.6	341.5	343.7	345.2	345.9
50°	306.7	313.3	318.3	322.0	324.1	326.3	327.8	327.8
52.5°	293.7	299.5	303.1	306.0	308.9	310.4	311.1	311.1
55°	282.1	285.7	289.3	290.8	291.5	292.2	293.7	293.7
57.5°	269.8	272.7	274.8	276.3	277.0	278.5	278.5	278.5
60°	257.4	259.6	260.3	261.8	262.5	263.2	264.0	264.0
62.5°	245.1	246.6	248.0	248.0	248.7	250.2	250.2	250.9
65°	232.0	233.5	234.2	234.9	235.7	236.4	237.1	237.1
67.5°	219.7	220.4	220.4	221.2	221.9	223.3	224.1	224.1
70°	205.9	205.9	205.9	206.7	207.4	208.8	209.6	210.3
72.5°	191.4	191.4	191.4	192.2	192.9	194.3	195.1	195.1
75°	175.5	175.5	174.8	175.5	174.8	175.5	174.8	176.2
77.5°	156.6	154.5	153.7	153.0	151.6	152.3	151.6	152.3
80°	133.4	131.3	129.1	128.4	128.4	127.6	126.9	128.4
82.5°	106.6	104.4	103.0	102.2	102.2	102.2	103.0	101.5
85°	76.1	74.0	72.5	72.5	71.1	71.1	71.1	70.3
87.5°	37.7	39.2	38.4	38.4	36.3	34.8	35.5	35.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)