

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: P188432

Luminaire Tested: **22SR-LD2-19-C-UNV-L840-CD1-TB-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188432  
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-L840-CD1-TB-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH TAHITIAN BLUE SKYTRIM.  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

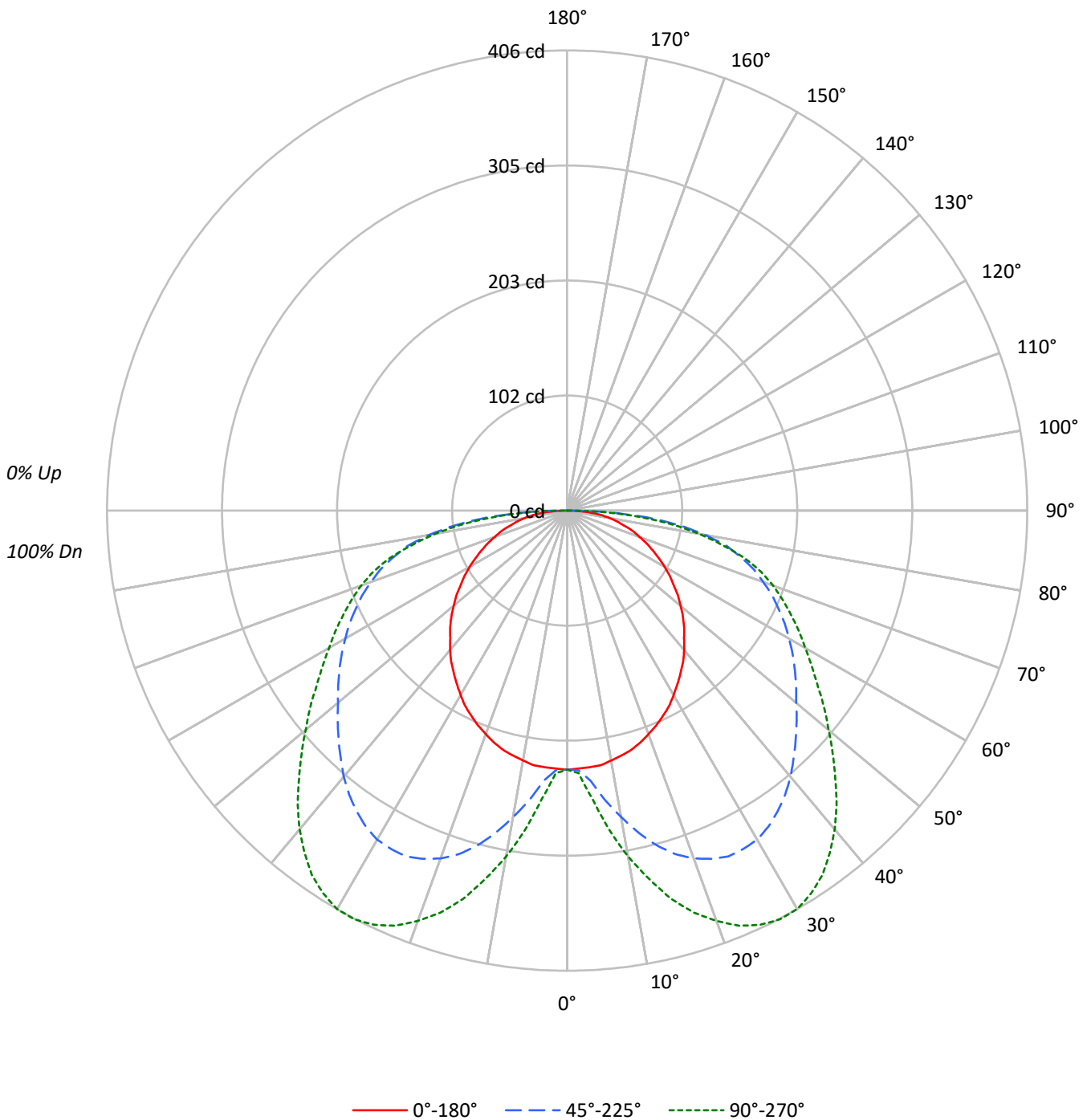
Lumens per Lamp: N/A  
Luminaire Lumens: 1238.0 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 2.03 / 1.86  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	615	615	615
5°	614	646	690
10°	612	750	847
15°	609	852	988
20°	601	935	1103
25°	594	999	1197
30°	584	1042	1261
35°	574	1064	1290
40°	564	1077	1290
45°	556	1085	1273
50°	547	1105	1261
55°	538	1151	1266
60°	534	1216	1306
65°	530	1311	1387
70°	535	1447	1521
75°	548	1649	1684
80°	589	1911	1829
85°	639	2201	1995



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.9	1.9
10°-20°	84.2	6.8
20°-30°	148.0	12.0
30°-40°	192.0	15.5
40°-50°	206.1	16.7
50°-60°	200.0	16.2
60°-70°	180.7	14.6
70°-80°	142.3	11.5
80°-90°	60.7	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°	256.1	20.7
0°-40°	448.1	36.2
0°-60°	854.3	69.0
0°-90°	1238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	229	229	229	229	229	
5°	227	229	239	251	255	22
15°	219	253	306	343	355	62
25°	200	262	337	386	403	92
35°	175	247	324	376	393	109
45°	146	216	285	323	335	113
55°	115	185	245	267	270	103
65°	83	154	206	216	218	83
75°	53	115	159	161	162	56
85°	21	52	71	67	65	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°	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6
2.5°	227.9	227.9	227.9	227.9	228.6	227.9	228.6	229.3	229.3	229.3	229.9
5°	227.3	227.9	227.9	227.9	228.6	229.9	231.3	233.9	237.3	239.3	241.9
7.5°	226.6	226.6	226.6	227.9	230.6	235.3	240.6	246.6	252.6	257.9	263.3
10°	223.9	224.6	225.3	229.3	235.3	243.3	251.9	260.6	267.3	274.6	281.9
12.5°	221.3	221.9	224.6	231.3	241.3	251.9	261.9	272.6	283.2	291.2	300.6
15°	218.6	219.3	223.3	233.9	246.6	258.6	271.3	283.9	294.6	305.9	315.9
17.5°	214.6	215.3	221.9	235.9	249.9	264.6	278.6	293.2	305.9	317.9	328.6
20°	209.9	211.3	219.9	235.9	251.9	267.9	283.9	299.2	313.2	326.6	339.2
22.5°	205.3	207.3	217.9	235.9	253.3	270.6	287.9	303.9	318.6	332.6	345.9
25°	199.9	201.9	215.3	234.6	252.6	270.6	289.2	305.9	321.2	336.6	349.9
27.5°	194.6	197.3	211.9	231.3	250.6	269.3	287.9	305.2	321.2	336.6	351.2
30°	187.9	191.3	207.9	227.9	247.3	266.6	285.2	303.2	319.2	335.2	349.2
32.5°	181.3	185.3	202.6	222.6	242.6	261.9	280.6	298.6	314.6	330.6	345.2
35°	174.6	179.3	197.3	217.3	237.3	255.9	274.6	292.6	308.6	323.9	338.6
37.5°	168.0	172.6	190.6	210.6	230.6	249.3	267.3	284.6	301.2	315.9	329.9
40°	160.6	166.0	184.6	203.9	223.3	241.9	259.3	276.6	291.9	306.6	319.2
42.5°	152.6	159.3	177.3	196.6	215.3	233.3	250.6	267.3	282.6	295.9	307.9
45°	146.0	152.0	169.9	189.3	207.3	225.3	242.6	258.6	272.6	285.2	296.6
47.5°	138.6	145.3	162.6	181.9	199.9	216.6	233.9	248.6	262.6	274.6	285.2
50°	130.6	138.6	155.3	173.9	192.6	209.3	225.9	239.9	253.3	263.9	273.9
52.5°	123.3	131.3	148.6	166.6	184.6	201.9	216.6	231.3	243.9	254.6	263.3
55°	114.6	124.6	141.3	159.3	176.6	193.9	209.3	223.3	235.3	245.3	253.3
57.5°	107.3	117.3	134.0	152.0	169.3	185.9	201.3	214.6	226.6	235.9	242.6
60°	99.3	110.0	126.6	144.6	161.3	177.9	193.3	206.6	217.3	225.9	232.6
62.5°	91.3	102.6	119.3	136.6	153.3	169.9	185.3	197.9	207.9	216.6	221.9
65°	83.3	94.6	112.0	128.6	145.3	162.0	175.9	188.6	198.6	205.9	211.3
67.5°	76.0	87.3	104.0	120.0	137.3	152.6	167.3	179.3	188.6	195.9	199.9
70°	68.0	80.0	95.3	111.3	128.0	143.3	157.3	168.6	177.9	183.9	187.9
72.5°	61.3	72.0	86.6	102.0	118.0	133.3	146.6	158.6	166.6	172.6	175.3
75°	52.7	64.0	78.0	92.6	108.0	122.6	135.3	146.0	154.0	158.6	161.3
77.5°	45.3	56.6	69.3	82.0	96.6	110.6	122.6	132.6	140.0	144.0	145.3
80°	38.0	47.3	58.6	70.6	83.3	96.0	107.3	116.0	122.0	123.3	124.0
82.5°	30.0	37.3	46.7	57.3	68.0	78.0	88.0	94.0	99.3	100.0	100.0
85°	20.7	25.3	32.0	39.3	47.3	56.0	63.3	68.0	70.0	71.3	71.3
87.5°	10.7	12.7	16.0	18.7	23.3	29.3	33.3	34.0	36.0	36.7	38.0
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°	228.6	228.6	228.6	228.6	228.6	228.6	228.6	228.6
2.5°	230.6	230.6	231.3	231.3	231.3	231.9	231.9	231.9
5°	245.3	247.3	249.9	252.6	253.3	255.3	255.3	255.3
7.5°	266.6	270.6	274.6	277.9	280.6	281.3	282.6	283.9
10°	288.6	293.2	299.2	302.6	304.6	307.2	307.9	309.9
12.5°	307.9	314.6	319.9	325.2	328.6	331.2	331.9	332.6
15°	323.9	332.6	339.9	345.2	348.6	351.2	353.9	354.6
17.5°	338.6	347.2	354.6	360.6	365.9	369.2	370.6	371.9
20°	349.9	359.2	367.2	373.9	379.2	382.6	384.6	385.2
22.5°	357.9	367.9	376.6	383.9	388.6	393.2	395.2	396.5
25°	362.6	373.2	382.6	389.9	395.9	399.9	402.5	403.2
27.5°	363.9	375.2	384.6	392.6	398.5	402.5	405.2	406.5
30°	362.6	373.9	383.9	391.9	397.9	401.9	404.5	405.9
32.5°	357.9	369.2	379.2	387.2	393.2	397.2	399.2	400.5
35°	350.6	361.9	371.9	379.2	384.6	389.2	391.2	392.6
37.5°	341.9	352.6	361.2	368.6	373.2	377.2	379.9	380.6
40°	330.6	340.6	348.6	355.9	360.6	363.9	365.9	367.2
42.5°	318.6	327.2	334.6	340.6	345.9	349.2	351.2	351.9
45°	306.6	313.9	320.6	325.9	329.2	332.6	333.9	334.6
47.5°	293.9	301.2	306.6	311.2	313.9	315.9	317.2	317.9
50°	281.9	287.9	292.6	295.9	297.9	299.9	301.2	301.2
52.5°	269.9	275.3	278.6	281.3	283.9	285.2	285.9	285.9
55°	259.3	262.6	265.9	267.3	267.9	268.6	269.9	269.9
57.5°	247.9	250.6	252.6	253.9	254.6	255.9	255.9	255.9
60°	236.6	238.6	239.3	240.6	241.3	241.9	242.6	242.6
62.5°	225.3	226.6	227.9	227.9	228.6	229.9	229.9	230.6
65°	213.3	214.6	215.3	215.9	216.6	217.3	217.9	217.9
67.5°	201.9	202.6	202.6	203.3	203.9	205.3	205.9	205.9
70°	189.3	189.3	189.3	189.9	190.6	191.9	192.6	193.3
72.5°	175.9	175.9	175.9	176.6	177.3	178.6	179.3	179.3
75°	161.3	161.3	160.6	161.3	160.6	161.3	160.6	162.0
77.5°	144.0	142.0	141.3	140.6	139.3	140.0	139.3	140.0
80°	122.6	120.6	118.6	118.0	118.0	117.3	116.6	118.0
82.5°	98.0	96.0	94.6	94.0	94.0	94.0	94.6	93.3
85°	70.0	68.0	66.6	66.6	65.3	65.3	65.3	64.6
87.5°	34.7	36.0	35.3	35.3	33.3	32.0	32.7	32.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)