

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: P188322

Luminaire Tested: **22SR-LD2-25-C-UNV-L830-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24793)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-25-C-UNV-L830-CD1-PG-U  
Description: METALUX 2X2 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

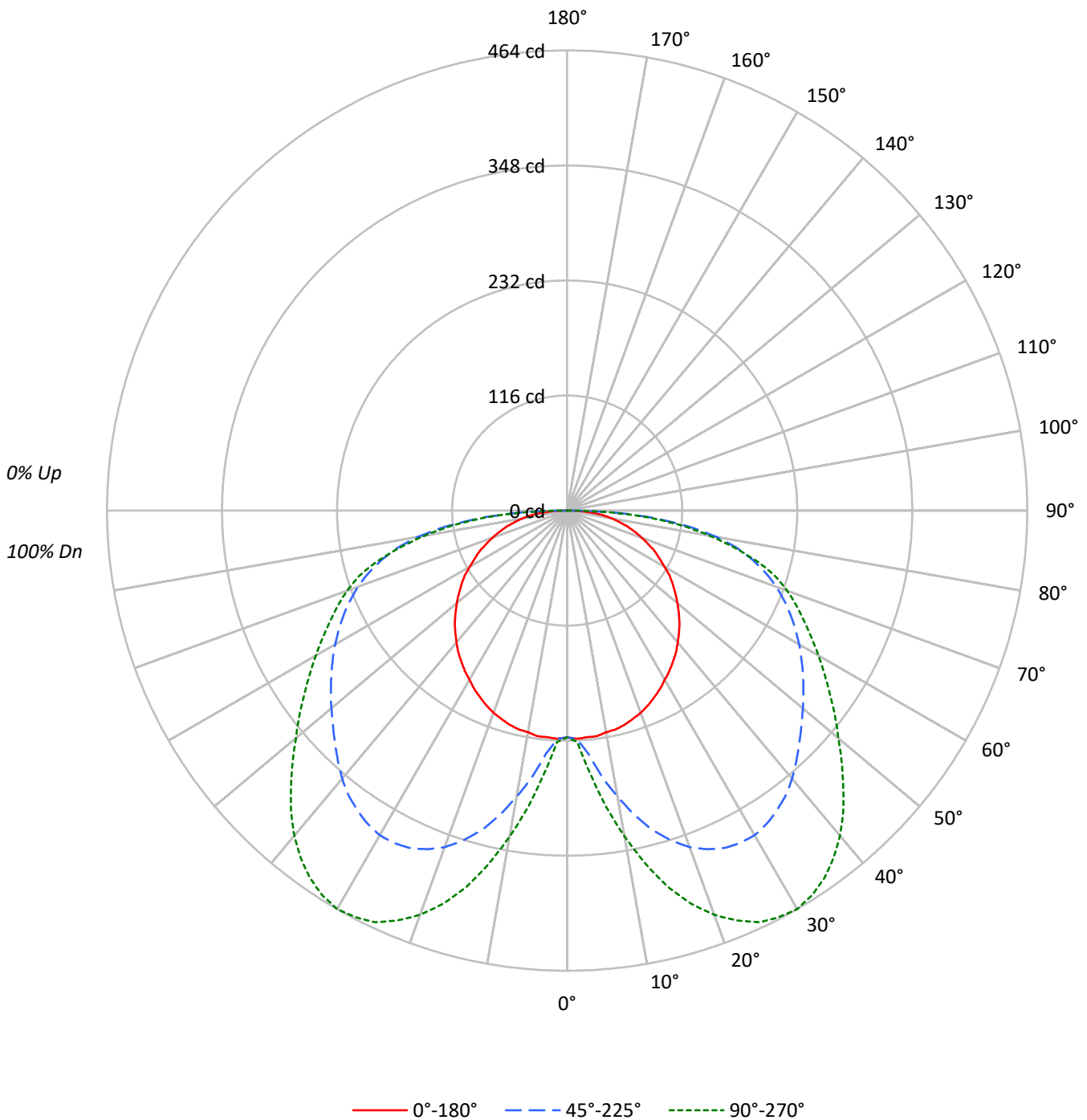
Lumens per Lamp: N/A  
Luminaire Lumens: 1441.0 lumens  
Efficiency: N/A  
Efficacy: 73.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 2.19 / 2  
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</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	100	95	90	103	98	93	89	93	89	86	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	69	80	73	68	76	71	66	73	69	65	62
3	86	73	64	57	83	72	63	56	69	61	55	66	59	54	63	58	53	51
4	78	64	54	47	75	63	54	46	60	52	46	58	51	45	55	49	44	42
5	71	57	47	39	69	56	46	39	53	45	39	51	44	38	49	43	38	35
6	65	51	41	34	63	50	40	34	48	39	33	46	39	33	44	38	33	30
7	60	45	36	29	58	45	36	29	43	35	29	41	34	29	40	33	28	26
8	56	41	32	26	54	40	32	26	39	31	25	38	31	25	37	30	25	23
9	52	38	29	23	50	37	29	23	36	28	23	35	28	22	34	27	22	20
10	49	34	26	20	47	34	26	20	33	25	20	32	25	20	31	25	20	18

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	670	670	670
5°	675	724	783
10°	675	871	993
15°	678	1012	1192
20°	676	1126	1353
25°	671	1214	1481
30°	666	1279	1570
35°	665	1319	1617
40°	664	1350	1637
45°	664	1372	1632
50°	662	1415	1628
55°	665	1483	1654
60°	665	1584	1716
65°	677	1724	1828
70°	686	1922	2023
75°	718	2201	2248
80°	774	2577	2464
85°	871	3002	2834



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.8	1.7
10°-20°	91.2	6.3
20°-30°	164.5	11.4
30°-40°	218.0	15.1
40°-50°	239.2	16.6
50°-60°	236.6	16.4
60°-70°	217.3	15.1
70°-80°	173.8	12.1
80°-90°	75.7	5.3
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°	280.5	19.5
0°-40°	498.5	34.6
0°-60°	974.3	67.6
0°-90°	1441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1441.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	229	229	229	229	229	
5°	229	231	246	261	266	22
15°	224	267	334	376	393	63
25°	208	286	375	436	458	96
35°	186	275	369	430	452	116
45°	160	249	331	380	394	123
55°	130	217	290	318	324	116
65°	98	183	249	261	264	96
75°	63	139	194	198	199	67
85°	26	63	89	84	84	27
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°	230.3	230.3	229.4	230.3	229.4	230.3	229.4	229.4	230.3	230.3	231.1
5°	229.4	229.4	229.4	229.4	230.3	231.9	234.4	237.8	241.9	246.1	250.3
7.5°	229.4	229.4	229.4	230.3	234.4	241.1	248.6	256.1	264.5	271.1	277.0
10°	226.9	227.8	227.8	232.8	241.9	252.8	264.5	273.6	283.7	292.8	301.2
12.5°	226.1	226.9	228.6	237.8	251.1	266.1	278.7	291.2	303.7	314.5	324.5
15°	223.6	223.6	229.4	242.8	259.5	275.3	291.2	306.2	320.4	333.7	345.4
17.5°	220.3	220.3	229.4	246.9	265.3	283.7	301.2	317.9	334.5	348.7	362.1
20°	216.9	217.7	229.4	250.3	270.3	291.2	309.5	327.9	345.4	361.2	376.3
22.5°	212.7	213.6	229.4	252.0	273.6	295.3	315.4	334.5	352.9	369.6	385.4
25°	207.7	210.2	227.8	251.1	274.5	297.0	317.9	338.7	358.7	375.4	392.1
27.5°	202.7	206.1	225.3	249.5	273.6	297.0	318.7	340.4	359.6	377.9	394.6
30°	196.9	201.1	222.8	247.8	272.0	295.3	317.9	339.6	359.6	377.9	394.6
32.5°	191.9	196.9	219.4	244.4	268.6	292.0	314.5	336.2	356.2	374.6	391.3
35°	186.0	191.1	214.4	239.4	263.6	287.0	309.5	330.4	351.2	368.8	385.4
37.5°	180.2	186.0	209.4	234.4	258.6	282.0	303.7	324.5	343.7	362.1	377.9
40°	173.5	180.2	203.6	228.6	252.0	274.5	296.2	316.2	335.4	352.9	367.9
42.5°	166.9	174.4	196.9	221.9	245.3	267.8	288.7	307.8	326.2	342.1	356.2
45°	160.2	168.5	191.1	214.4	237.8	259.5	279.5	298.7	315.4	331.2	344.6
47.5°	152.7	161.9	184.4	207.7	230.3	251.1	271.1	289.5	306.2	320.4	332.9
50°	145.2	155.2	177.7	200.2	221.9	243.6	262.8	280.3	296.2	310.4	322.0
52.5°	137.7	148.5	170.2	192.7	214.4	235.3	254.5	271.1	287.0	300.3	310.4
55°	130.1	141.0	163.5	185.2	206.9	226.9	246.1	262.8	277.8	290.3	299.5
57.5°	122.6	134.3	156.0	176.9	198.6	219.4	237.8	254.5	268.6	280.3	289.5
60°	113.5	126.8	147.7	169.4	190.2	211.1	229.4	245.3	259.5	270.3	278.7
62.5°	105.1	119.3	140.2	161.0	181.9	201.9	220.3	236.1	249.5	259.5	267.0
65°	97.6	111.0	131.8	151.8	172.7	193.6	211.1	226.9	239.4	248.6	255.3
67.5°	88.4	102.6	122.6	142.7	163.5	183.5	201.1	216.1	228.6	236.9	242.8
70°	80.1	94.3	113.5	133.5	153.5	172.7	190.2	205.2	216.1	224.4	228.6
72.5°	71.7	85.9	104.3	123.5	142.7	161.9	178.5	191.9	202.7	210.2	213.6
75°	63.4	76.8	94.3	112.6	130.1	148.5	165.2	178.5	187.7	194.4	196.9
77.5°	54.2	67.6	83.4	100.1	116.8	134.3	149.3	161.9	171.0	176.0	178.5
80°	45.9	56.7	70.9	86.8	101.8	117.6	131.0	141.8	149.3	152.7	151.8
82.5°	36.7	45.1	56.7	70.1	82.6	95.9	107.6	116.8	121.8	123.5	123.5
85°	25.9	30.9	39.2	48.4	58.4	68.4	77.6	84.3	88.4	89.3	89.3
87.5°	13.3	15.0	18.4	23.4	28.4	34.2	40.9	45.1	46.7	47.6	47.6
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°	231.1	231.9	232.8	232.8	232.8	233.6	233.6	233.6
5°	253.6	257.8	260.3	262.0	263.6	265.3	267.0	266.1
7.5°	282.0	287.0	291.2	294.5	297.0	299.5	301.2	301.2
10°	307.8	314.5	320.4	325.4	329.5	331.2	333.7	333.7
12.5°	333.7	341.2	347.9	354.6	358.7	362.1	364.6	364.6
15°	355.4	364.6	372.1	379.6	385.4	389.6	391.3	392.9
17.5°	373.8	383.8	392.9	401.3	407.1	411.3	413.8	415.5
20°	387.9	399.6	409.6	418.0	425.5	429.7	432.2	433.8
22.5°	398.8	411.3	422.1	431.3	438.0	443.0	446.3	447.2
25°	406.3	419.6	431.3	440.5	448.0	453.0	456.4	458.0
27.5°	409.6	423.0	435.5	445.5	453.0	458.9	461.4	462.2
30°	410.5	423.8	436.3	446.3	454.7	459.7	462.2	463.9
32.5°	407.1	420.5	433.0	443.0	450.5	455.5	458.9	459.7
35°	400.5	413.8	425.5	435.5	443.0	448.0	451.3	452.2
37.5°	392.1	404.6	416.3	425.5	433.0	438.0	440.5	441.3
40°	381.3	393.8	403.8	413.0	419.6	423.8	427.2	428.0
42.5°	369.6	381.3	391.3	398.8	404.6	409.6	411.3	412.1
45°	356.2	367.1	376.3	382.9	387.9	392.1	393.8	393.8
47.5°	343.7	353.7	361.2	367.1	370.4	373.8	374.6	375.4
50°	331.2	339.6	346.2	350.4	353.7	356.2	357.1	357.1
52.5°	319.5	326.2	331.2	335.4	337.0	339.6	340.4	340.4
55°	307.8	312.9	317.0	319.5	321.2	322.9	322.9	323.7
57.5°	296.2	300.3	302.8	304.5	306.2	307.0	307.8	307.8
60°	283.7	287.0	288.7	289.5	290.3	292.0	292.0	292.8
62.5°	271.1	273.6	274.5	275.3	276.1	277.0	277.8	277.8
65°	257.8	259.5	260.3	261.1	262.0	262.8	264.5	263.6
67.5°	244.4	245.3	246.1	246.9	247.8	249.5	250.3	250.3
70°	230.3	230.3	231.1	231.9	232.8	234.4	235.3	236.1
72.5°	215.2	214.4	215.2	216.1	217.7	219.4	220.3	220.3
75°	197.7	197.7	197.7	197.7	197.7	198.6	198.6	198.6
77.5°	177.7	173.5	172.7	171.9	171.9	171.9	171.9	172.7
80°	150.2	146.8	146.0	145.2	146.0	146.0	146.0	146.0
82.5°	121.8	118.5	117.6	116.8	116.8	116.8	116.8	117.6
85°	87.6	85.9	85.1	83.4	84.3	84.3	85.1	84.3
87.5°	47.6	45.1	45.1	44.2	45.9	45.1	45.1	44.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)