

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: P188517

Luminaire Tested: **24SR-LD2-29-C-UNV-L830-CD1-PG-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24780)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-29-C-UNV-L830-CD1-PG-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PRIMARY GREEN SKYTRIM.  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

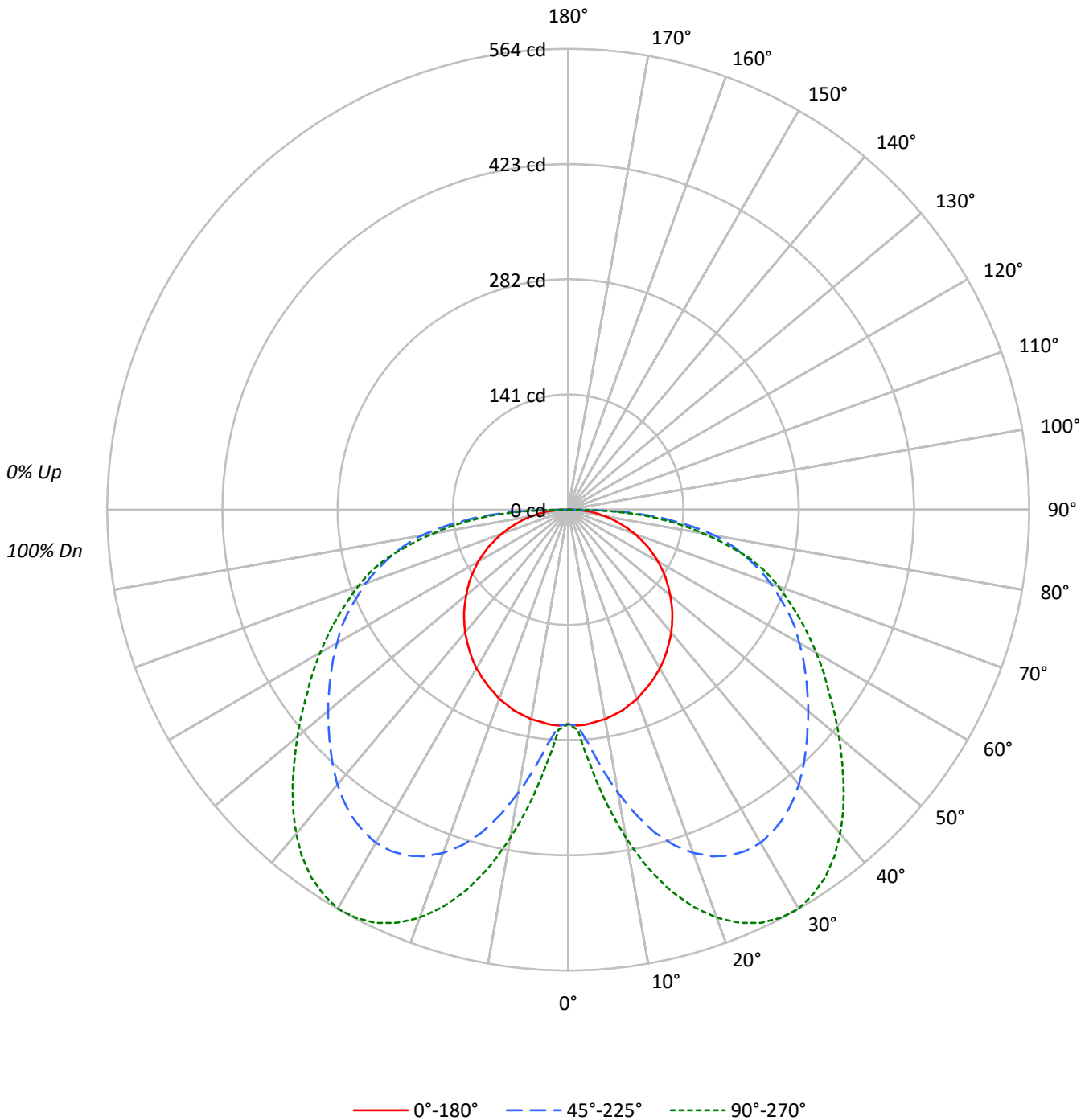
Lumens per Lamp: N/A  
Luminaire Lumens: 1749.0 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 2.25 / 2.05  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 22.6  
Input Voltage (V): NR  
Input Current (A<sub>in</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	88	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	46	36	29	58	45	36	29	43	35	29	42	34	29	40	33	28	26
8	56	41	32	26	54	41	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	23	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°	353	353	353
5°	356	388	425
10°	355	481	557
15°	355	569	672
20°	353	640	761
25°	350	693	828
30°	348	731	876
35°	346	755	901
40°	344	771	909
45°	343	783	907
50°	341	803	905
55°	342	832	913
60°	341	879	943
65°	342	946	991
70°	340	1038	1075
75°	341	1176	1195
80°	352	1413	1302
85°	412	1758	1581



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.2	1.7
10°-20°	110.4	6.3
20°-30°	200.9	11.5
30°-40°	266.5	15.2
40°-50°	291.9	16.7
50°-60°	286.9	16.4
60°-70°	260.3	14.9
70°-80°	206.3	11.8
80°-90°	96.7	5.5
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°	340.5	19.5
0°-40°	606.9	34.7
0°-60°	1185.8	67.8
0°-90°	1749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1749.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	262	262	262	262	262	
5°	264	266	288	308	315	25
15°	254	316	409	464	482	72
25°	236	348	467	533	558	109
35°	210	341	460	525	549	132
45°	180	306	412	461	476	139
55°	146	269	355	382	389	130
65°	107	232	297	306	311	106
75°	66	180	226	227	230	69
85°	27	97	114	102	102	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°	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4
2.5°	264.5	263.8	263.8	263.8	263.1	263.1	263.1	263.8	263.8	264.5	266.0
5°	263.8	263.1	263.1	263.1	264.5	266.7	271.0	276.1	281.9	287.6	294.1
7.5°	261.7	261.7	261.7	263.8	270.3	279.0	289.8	300.6	310.0	320.1	329.4
10°	260.2	260.2	261.7	268.9	281.9	296.3	310.7	325.1	338.1	351.8	364.7
12.5°	257.3	257.3	261.7	275.4	293.4	312.1	330.1	348.2	365.5	382.0	396.5
15°	254.5	254.5	263.8	283.3	304.9	327.3	348.9	369.8	390.0	408.7	425.3
17.5°	250.1	250.9	265.3	289.1	315.0	340.2	364.0	387.8	409.4	430.3	447.6
20°	246.5	248.0	266.7	294.1	322.9	351.1	377.7	402.2	425.3	446.9	465.7
22.5°	240.8	243.6	267.4	297.7	328.7	359.0	386.4	412.3	436.8	459.2	477.9
25°	235.7	239.3	266.7	299.2	333.0	364.0	392.1	418.8	444.0	467.1	486.6
27.5°	229.9	235.7	266.0	299.9	334.5	366.2	395.0	422.4	447.6	470.7	490.9
30°	224.2	231.4	263.8	299.2	333.8	365.5	394.3	422.4	447.6	470.7	490.2
32.5°	217.7	225.6	259.5	295.5	330.9	361.9	390.7	418.1	444.0	466.4	485.8
35°	210.5	219.9	254.5	290.5	325.1	356.1	384.2	411.6	436.8	459.9	478.6
37.5°	203.3	214.1	248.7	284.7	318.6	348.9	376.3	403.7	428.2	450.5	468.5
40°	196.1	207.6	242.2	277.5	310.7	340.2	367.6	394.3	417.4	439.0	455.6
42.5°	188.1	201.1	235.0	269.6	301.3	330.1	357.5	383.5	405.8	426.0	441.9
45°	180.2	193.2	227.1	260.9	292.7	320.1	346.7	372.0	392.9	411.6	426.7
47.5°	171.6	186.0	219.9	252.3	282.6	310.7	336.6	359.7	380.6	397.2	411.6
50°	162.9	178.0	211.2	243.6	273.2	300.6	325.8	348.2	367.6	383.5	395.7
52.5°	154.3	170.1	203.3	235.0	264.5	291.2	315.7	336.6	354.7	369.1	381.3
55°	145.6	162.2	195.3	226.3	255.9	281.9	305.6	325.1	342.4	354.7	364.7
57.5°	136.2	154.3	187.4	218.4	247.2	273.2	295.5	314.3	330.1	341.0	349.6
60°	126.9	145.6	178.8	210.5	238.6	263.8	285.5	303.5	317.2	326.5	334.5
62.5°	116.8	137.0	170.8	201.8	229.9	254.5	274.6	290.5	304.2	312.8	317.2
65°	107.4	128.3	162.2	193.2	220.6	243.6	263.1	278.2	289.8	297.0	300.6
67.5°	96.6	118.9	152.8	183.8	209.8	232.1	250.1	264.5	274.6	279.7	282.6
70°	86.5	109.6	142.7	173.0	197.5	219.1	236.4	250.1	258.8	263.8	264.5
72.5°	75.7	99.5	132.6	161.5	185.3	205.4	222.0	234.3	241.5	245.8	246.5
75°	65.6	88.7	120.4	147.8	170.1	188.9	204.7	216.3	223.5	226.3	226.3
77.5°	55.5	77.1	107.4	133.4	154.3	171.6	186.0	197.5	203.3	206.2	206.2
80°	45.4	66.3	93.7	117.5	136.2	152.1	166.5	176.6	182.4	182.4	178.0
82.5°	36.0	54.1	77.9	99.5	115.3	129.8	143.4	149.9	151.4	149.9	146.3
85°	26.7	41.1	60.6	77.1	91.5	101.6	110.3	114.6	115.3	113.9	111.0
87.5°	15.1	23.8	34.6	45.4	54.8	59.8	67.0	68.5	68.5	70.6	67.0
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°	262.4	262.4	262.4	262.4	262.4	262.4	262.4	262.4
2.5°	266.7	267.4	267.4	269.6	269.6	270.3	269.6	269.6
5°	298.4	301.3	305.6	310.0	311.4	314.3	313.6	315.0
7.5°	336.6	342.4	348.9	354.7	357.5	360.4	361.1	363.3
10°	374.8	382.0	390.0	397.9	402.2	404.4	407.3	408.0
12.5°	408.0	418.8	426.7	435.4	441.2	444.0	446.9	448.4
15°	438.3	449.1	459.2	468.5	474.3	478.6	481.5	482.2
17.5°	461.3	473.6	484.4	494.5	500.3	505.3	508.2	509.6
20°	479.4	493.1	503.9	514.0	520.4	526.2	530.5	531.3
22.5°	492.3	506.0	518.3	528.4	536.3	542.1	545.7	547.1
25°	501.7	516.1	528.4	538.5	546.4	552.9	556.5	557.9
27.5°	506.0	521.2	534.1	543.5	551.4	557.9	562.3	563.0
30°	506.8	521.2	534.1	544.2	552.2	558.7	562.3	563.7
32.5°	501.7	516.8	529.8	539.2	547.1	553.6	557.2	557.9
35°	494.5	508.2	520.4	529.8	537.8	543.5	547.1	548.6
37.5°	483.7	496.7	508.2	516.8	524.1	529.8	533.4	534.9
40°	470.7	483.0	493.8	501.7	508.2	513.2	516.1	517.6
42.5°	455.6	467.1	477.2	483.7	490.2	494.5	496.7	498.1
45°	439.7	450.5	458.5	464.2	470.0	473.6	475.8	476.5
47.5°	423.1	432.5	439.0	444.0	448.4	452.0	454.1	454.1
50°	406.6	414.5	419.5	424.6	428.2	430.3	431.8	432.5
52.5°	390.0	396.5	400.1	404.4	407.3	409.4	410.9	410.9
55°	372.7	377.7	380.6	384.2	387.1	388.5	390.0	389.3
57.5°	356.1	359.7	361.9	364.7	366.9	368.4	369.8	370.5
60°	338.8	341.7	342.4	345.3	347.4	348.9	349.6	350.3
62.5°	320.8	322.9	324.4	325.8	328.0	329.4	330.1	330.9
65°	302.8	304.2	304.2	307.1	309.2	310.0	310.7	311.4
67.5°	284.0	284.7	285.5	287.6	289.8	290.5	291.9	291.9
70°	265.3	265.3	266.0	268.2	270.3	271.0	272.5	273.2
72.5°	245.8	246.5	246.5	248.7	250.9	252.3	253.0	253.7
75°	225.6	225.6	226.3	227.1	227.8	228.5	228.5	229.9
77.5°	204.0	201.1	199.7	198.2	199.0	199.0	198.2	199.0
80°	173.7	170.1	168.0	167.2	168.0	167.2	167.2	168.0
82.5°	142.7	138.4	137.0	136.2	136.2	136.2	135.5	137.0
85°	107.4	104.5	103.1	101.6	102.4	102.4	101.6	102.4
87.5°	64.9	63.4	62.0	60.6	61.3	60.6	59.8	62.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)