

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: P178866

Luminaire Tested: **22SR-LD2-29-C-UNV-EL7W-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P178866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34290)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22SR-LD2-29-C-UNV-EL7W-L830-CD1-U  
Description: METALUX SKYRIDGE 2X2 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 953.4 lumens  
Efficiency: N/A  
Efficacy: 153.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.47 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

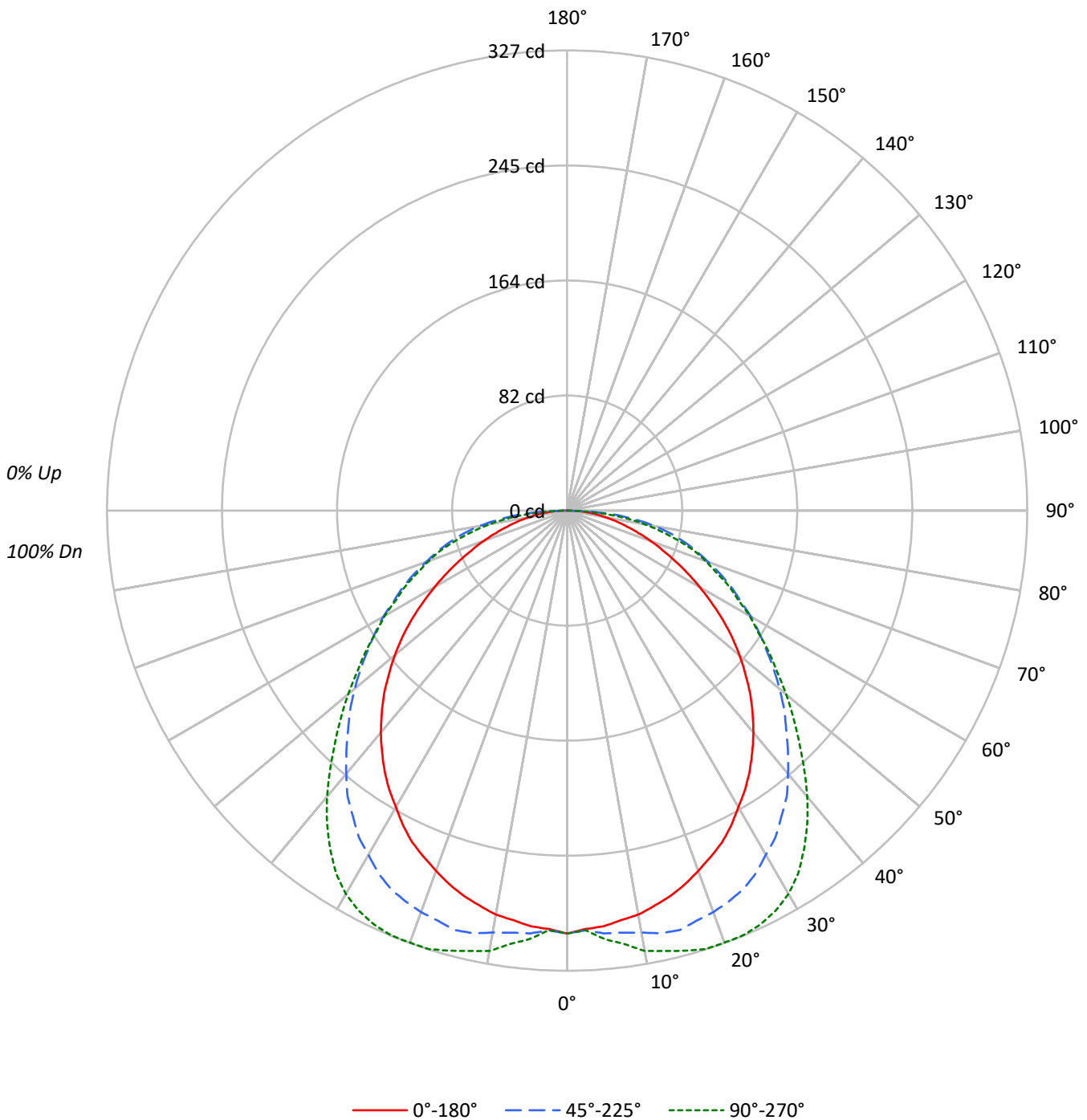
Input Watts (W): 6.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	809	809	809
5°	801	815	826
10°	797	832	868
15°	790	860	902
20°	780	869	936
25°	773	880	964
30°	756	877	978
35°	743	872	964
40°	724	858	932
45°	700	838	887
50°	669	825	850
55°	632	811	821
60°	584	812	806
65°	537	819	807
70°	498	839	822
75°	460	899	846
80°	435	981	872
85°	435	1056	837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.8	3.0
10°-20°	86.2	9.0
20°-30°	135.1	14.2
30°-40°	163.3	17.1
40°-50°	164.7	17.3
50°-60°	146.6	15.4
60°-70°	117.3	12.3
70°-80°	80.9	8.5
80°-90°	30.4	3.2
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°	250.1	26.2
0°-40°	413.4	43.4
0°-60°	724.7	76.0
0°-90°	953.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	953.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	300	300	300	300	300	
5°	296	296	302	307	306	28
15°	284	288	309	320	324	80
25°	260	270	296	319	325	120
35°	226	235	265	286	294	141
45°	184	194	220	232	233	142
55°	135	152	173	176	175	120
65°	84	113	129	127	127	84
75°	44	73	86	83	81	47
85°	14	30	34	29	27	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	300.5	300.5	300.5	300.5	300.5	300.5	300.5	300.5	300.5	300.5	300.5
2.5°	297.6	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5
5°	296.5	297.6	296.5	296.5	296.5	296.5	296.5	296.5	298.5	299.6	301.6
7.5°	293.5	294.5	293.5	293.5	294.5	294.5	296.5	299.6	301.6	302.5	302.5
10°	291.5	292.5	290.5	290.5	294.5	296.5	297.6	298.5	297.6	300.5	304.5
12.5°	287.5	287.5	285.5	289.5	293.5	293.5	292.5	294.5	299.6	304.5	307.6
15°	283.5	282.4	281.5	286.4	287.5	287.5	289.5	295.5	299.6	303.6	308.6
17.5°	278.4	277.5	277.5	282.4	282.4	285.5	289.5	293.5	298.5	303.6	305.6
20°	272.4	270.4	273.4	274.4	278.4	282.4	284.4	289.5	294.5	298.5	303.6
22.5°	266.3	263.4	267.4	267.4	274.4	276.4	279.5	285.5	289.5	295.5	300.5
25°	260.3	257.3	260.3	261.4	268.4	270.4	274.4	278.4	284.4	290.5	296.5
27.5°	252.3	248.2	251.3	254.3	260.3	263.4	265.4	271.4	278.4	284.4	290.5
30°	243.3	240.2	241.3	246.2	252.3	254.3	257.3	263.4	270.4	276.4	282.4
32.5°	235.2	231.2	231.2	237.2	243.3	244.2	248.2	255.3	261.4	268.4	275.4
35°	226.1	222.1	222.1	227.2	232.2	235.2	238.2	245.3	252.3	259.4	265.4
37.5°	216.1	212.1	213.1	218.1	222.1	225.2	228.1	235.2	241.3	249.3	256.3
40°	206.0	202.0	203.1	207.1	212.1	215.1	218.1	225.2	232.2	238.2	244.2
42.5°	195.0	192.0	193.0	197.0	201.1	205.1	208.0	214.1	221.2	227.2	232.2
45°	183.9	180.9	181.9	185.9	191.0	194.0	197.0	204.0	210.0	216.1	220.1
47.5°	171.8	169.8	170.9	174.9	180.9	183.0	185.9	193.0	199.0	204.0	209.1
50°	159.8	157.8	159.8	163.8	169.8	172.9	175.9	181.9	187.9	193.0	197.0
52.5°	147.7	145.7	148.8	153.8	158.8	161.8	165.8	171.8	176.9	181.9	185.0
55°	134.7	134.7	137.7	142.7	148.8	151.7	154.8	161.8	166.9	170.9	172.9
57.5°	121.6	122.6	126.7	132.7	138.7	141.7	145.7	150.8	155.8	159.8	161.8
60°	108.6	110.6	115.6	122.6	128.7	131.6	134.7	140.7	144.8	148.8	150.8
62.5°	96.5	99.5	105.5	111.5	118.6	121.6	124.7	130.7	134.7	136.7	138.7
65°	84.4	88.5	94.5	101.5	108.6	112.6	114.6	120.6	123.6	126.7	128.7
67.5°	73.3	78.4	85.4	92.5	98.5	102.5	105.5	110.6	113.5	115.6	117.6
70°	63.3	68.4	75.3	82.4	89.4	92.5	95.4	99.5	103.5	105.5	106.6
72.5°	53.2	59.3	67.3	73.3	80.4	83.4	85.4	90.5	93.4	95.4	96.5
75°	44.2	50.3	58.3	64.3	71.3	73.3	75.3	80.4	83.4	85.4	86.5
77.5°	36.2	42.2	49.2	55.2	61.3	64.3	66.3	70.4	72.4	74.4	75.3
80°	28.1	34.2	41.2	46.2	51.2	53.2	56.3	59.3	61.3	63.3	63.3
82.5°	21.1	26.1	32.2	36.2	40.2	42.2	44.2	48.3	49.2	50.3	49.2
85°	14.1	17.0	21.1	25.1	28.1	30.2	31.1	33.1	35.1	34.2	34.2
87.5°	7.0	8.0	11.0	12.1	14.1	15.0	16.1	17.0	16.1	16.1	15.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	300.5	300.5	300.5	300.5	300.5	300.5	300.5	300.5	300.5	300.5
2.5°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5
5°	303.6	304.5	305.6	305.6	306.6	305.6	305.6	305.6	305.6	305.6
7.5°	301.6	303.6	304.5	306.6	307.6	308.6	309.6	310.6	310.6	310.6
10°	308.6	310.6	312.6	314.6	314.6	314.6	316.6	317.7	317.7	317.7
12.5°	309.6	312.6	315.7	317.7	318.6	319.7	319.7	319.7	320.6	320.6
15°	311.6	313.6	315.7	318.6	319.7	320.6	321.7	323.7	323.7	323.7
17.5°	310.6	313.6	316.6	319.7	321.7	322.6	324.6	326.7	326.7	326.7
20°	307.6	312.6	316.6	319.7	320.6	321.7	323.7	325.7	326.7	326.7
22.5°	305.6	309.6	314.6	318.6	319.7	320.6	322.6	324.6	326.7	326.7
25°	301.6	306.6	311.6	315.7	318.6	319.7	321.7	323.7	323.7	324.6
27.5°	296.5	301.6	307.6	310.6	311.6	313.6	316.6	318.6	319.7	320.6
30°	290.5	295.5	300.5	304.5	305.6	307.6	310.6	312.6	313.6	314.6
32.5°	281.5	287.5	291.5	296.5	298.5	299.6	301.6	303.6	304.5	305.6
35°	272.4	277.5	281.5	285.5	286.4	288.5	290.5	291.5	293.5	293.5
37.5°	261.4	266.3	270.4	273.4	274.4	275.4	278.4	279.5	280.4	280.4
40°	249.3	254.3	257.3	260.3	261.4	261.4	263.4	265.4	265.4	265.4
42.5°	237.2	240.2	243.3	245.3	247.3	247.3	248.2	249.3	249.3	249.3
45°	225.2	228.1	229.2	231.2	232.2	232.2	233.2	233.2	234.2	233.2
47.5°	212.1	214.1	215.1	217.1	217.1	217.1	217.1	218.1	218.1	218.1
50°	199.0	201.1	202.0	203.1	203.1	203.1	203.1	203.1	203.1	203.1
52.5°	187.0	187.9	189.0	189.0	189.0	189.0	189.0	187.9	187.9	187.9
55°	174.9	175.9	175.9	174.9	175.9	174.9	174.9	173.9	174.9	174.9
57.5°	162.9	163.8	162.9	162.9	162.9	161.8	161.8	161.8	161.8	160.8
60°	150.8	151.7	150.8	150.8	149.7	149.7	149.7	148.8	148.8	149.7
62.5°	140.7	139.7	138.7	138.7	137.7	137.7	136.7	136.7	136.7	136.7
65°	128.7	128.7	127.6	126.7	126.7	126.7	125.6	125.6	125.6	126.7
67.5°	118.6	117.6	116.6	115.6	115.6	114.6	114.6	114.6	114.6	114.6
70°	107.5	106.6	105.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5
72.5°	96.5	95.4	95.4	94.5	94.5	94.5	93.4	93.4	93.4	94.5
75°	86.5	85.4	84.4	83.4	83.4	83.4	82.4	82.4	82.4	81.4
77.5°	75.3	74.4	72.4	71.3	70.4	70.4	69.3	69.3	69.3	68.4
80°	62.3	60.3	59.3	58.3	57.2	57.2	56.3	56.3	56.3	56.3
82.5°	48.3	47.2	46.2	45.2	43.2	43.2	42.2	43.2	43.2	42.2
85°	33.1	32.2	30.2	29.1	29.1	28.1	28.1	28.1	27.1	27.1
87.5°	15.0	14.1	14.1	13.0	12.1	12.1	12.1	11.0	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)