

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: P183987

Luminaire Tested: **12SR-LD2-9-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34460)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12SR-LD2-9-C-UNV-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

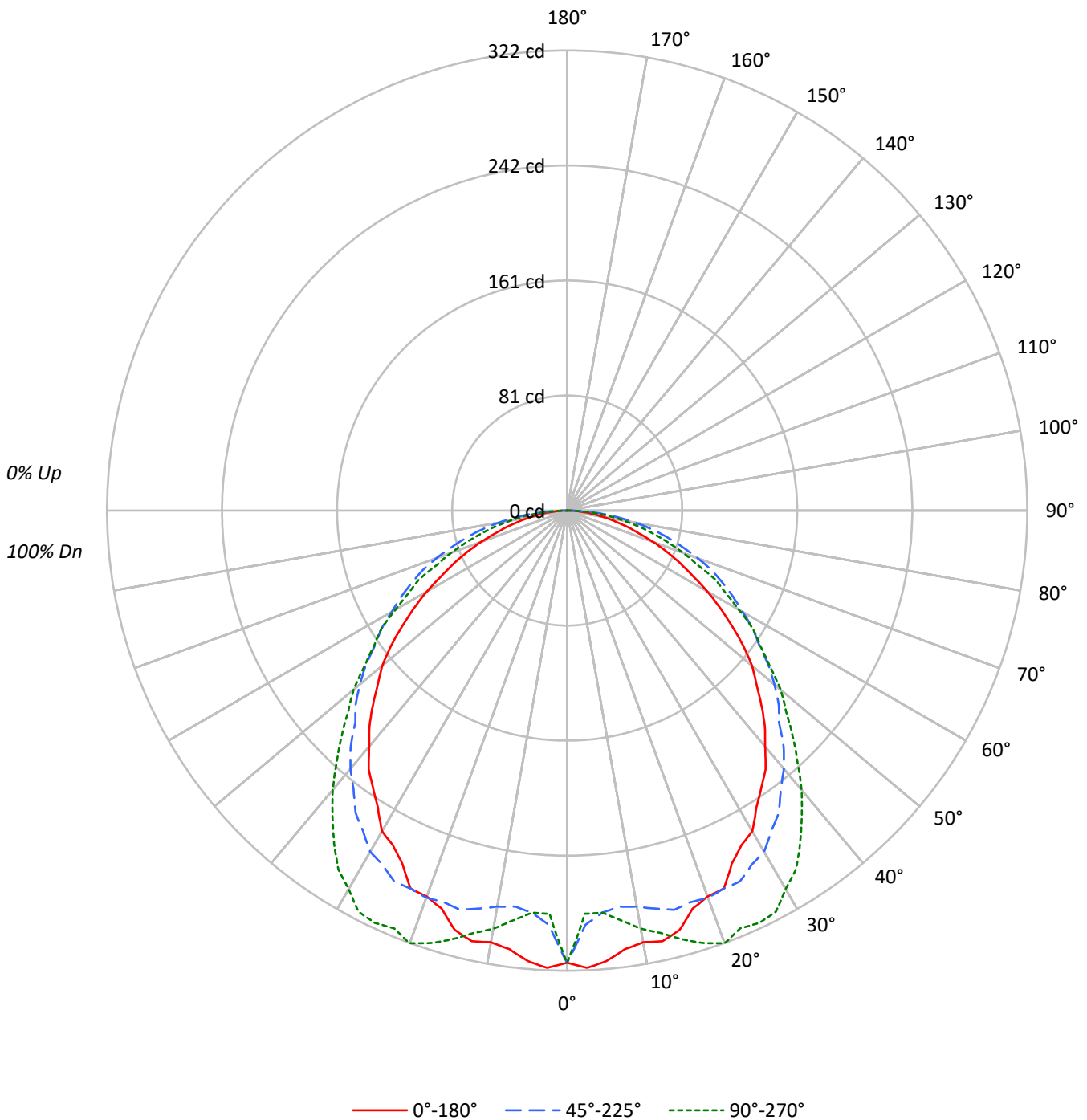
Lumens per Lamp: N/A  
Luminaire Lumens: 899.2 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.39 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.1  
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	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

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

	0°	45°	90°
0°	1703	1703	1703
5°	1709	1526	1526
10°	1676	1538	1623
15°	1693	1611	1730
20°	1645	1651	1845
25°	1619	1700	1890
30°	1610	1713	1900
35°	1556	1696	1868
40°	1513	1657	1793
45°	1463	1595	1699
50°	1414	1584	1634
55°	1320	1539	1548
60°	1222	1525	1494
65°	1112	1532	1458
70°	1009	1526	1360
75°	888	1514	1291
80°	781	1503	1234
85°	716	1439	1136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.6	3.1
10°-20°	82.7	9.2
20°-30°	131.6	14.6
30°-40°	158.5	17.6
40°-50°	158.9	17.7
50°-60°	140.6	15.6
60°-70°	108.6	12.1
70°-80°	68.1	7.6
80°-90°	22.6	2.5
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°	241.9	26.9
0°-40°	400.4	44.5
0°-60°	699.9	77.8
0°-90°	899.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	899.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	316	316	316	316	316	
5°	316	285	282	284	282	30
15°	304	269	289	306	310	85
25°	273	253	286	312	318	126
35°	237	220	258	278	284	148
45°	192	183	210	218	223	148
55°	141	144	164	166	165	126
65°	87	105	120	114	114	87
75°	43	68	73	64	62	46
85°	12	25	23	19	18	13
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	316.4	316.4	316.4	316.4	316.4
2.5°	320.3	307.6	290.2	284.3	282.4
5°	316.4	285.3	282.4	284.3	282.4
7.5°	309.6	277.6	279.5	287.3	289.2
10°	306.7	278.5	281.4	295.0	297.0
12.5°	308.6	272.7	285.3	299.9	302.8
15°	303.8	268.8	289.2	305.7	310.5
17.5°	292.1	266.9	287.3	308.6	317.3
20°	287.3	264.0	288.2	311.5	322.2
22.5°	286.3	258.1	286.3	312.5	316.4
25°	272.7	253.3	286.3	312.5	318.3
27.5°	264.0	246.5	279.5	303.8	316.4
30°	259.1	237.8	275.6	297.9	305.7
32.5°	246.5	230.0	265.9	288.2	297.9
35°	236.8	220.3	258.1	277.6	284.3
37.5°	228.1	211.6	245.5	264.0	269.8
40°	215.4	202.8	235.8	249.4	255.2
42.5°	204.8	194.1	224.2	236.8	238.7
45°	192.2	183.4	209.6	218.4	223.2
47.5°	179.5	172.7	200.9	205.7	207.7
50°	168.9	164.0	189.2	193.1	195.1
52.5°	155.3	153.3	177.6	178.6	178.6
55°	140.7	143.6	164.0	165.9	165.0
57.5°	127.1	133.9	154.3	152.4	154.3
60°	113.5	123.2	141.7	140.7	138.8
62.5°	99.0	114.5	131.0	127.1	125.2
65°	87.3	104.8	120.3	113.5	114.5
67.5°	75.7	95.1	109.7	100.0	98.0
70°	64.1	85.4	97.0	88.3	86.4
72.5°	52.4	77.6	84.4	75.7	73.8
75°	42.7	67.9	72.8	64.1	62.1
77.5°	34.0	58.2	61.1	53.4	51.4
80°	25.2	48.5	48.5	41.7	39.8
82.5°	18.4	36.9	35.9	30.1	30.1
85°	11.6	25.2	23.3	19.4	18.4
87.5°	5.8	11.6	10.7	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)