

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: P184007

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P166788)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 12SR-LD2-9-S-UNV-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

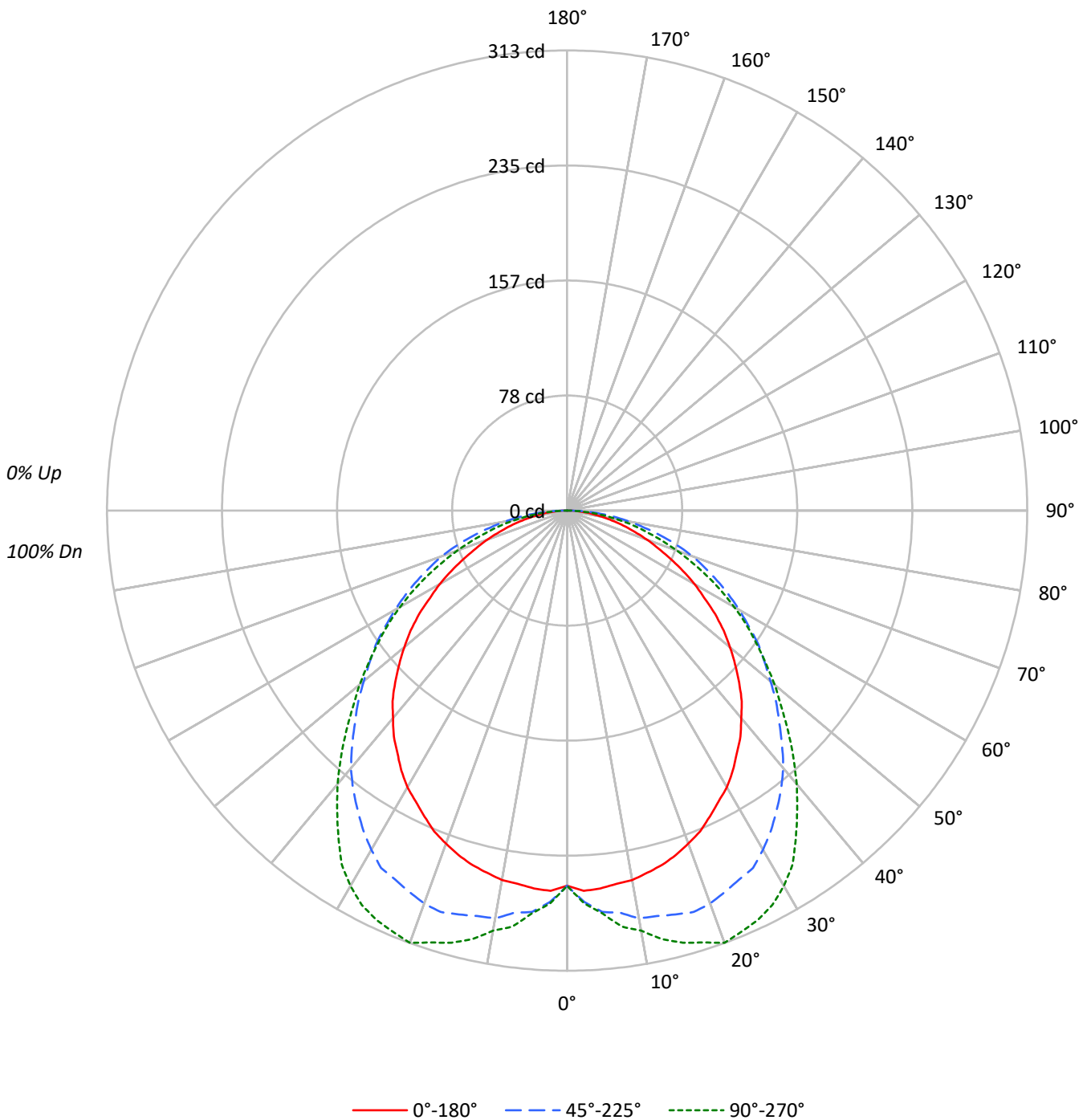
Lumens per Lamp: N/A  
Luminaire Lumens: 850.0 lumens  
Efficiency: N/A  
Efficacy: 93.4 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.54 / 1.5  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	61	53	47	59	52	46	57	51	46	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	1373	1373	1373
5°	1394	1480	1486
10°	1394	1539	1585
15°	1390	1585	1696
20°	1380	1629	1792
25°	1363	1644	1824
30°	1350	1656	1832
35°	1323	1633	1782
40°	1294	1607	1706
45°	1259	1553	1618
50°	1211	1511	1542
55°	1153	1490	1472
60°	1079	1454	1413
65°	987	1431	1336
70°	908	1427	1249
75°	826	1375	1158
80°	731	1317	1085
85°	698	1284	932



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.9	3.1
10°-20°	79.5	9.4
20°-30°	125.6	14.8
30°-40°	151.0	17.8
40°-50°	151.1	17.8
50°-60°	133.0	15.6
60°-70°	101.6	12.0
70°-80°	62.2	7.3
80°-90°	20.1	2.4
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°	231.0	27.2
0°-40°	382.1	45.0
0°-60°	666.2	78.4
0°-90°	850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	850.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	255	255	255	255	255	
5°	258	264	274	275	275	25
15°	250	264	284	299	304	70
25°	230	246	277	299	307	106
35°	201	216	248	266	271	126
45°	165	177	204	212	213	127
55°	123	139	159	158	157	110
65°	78	99	112	107	105	77
75°	40	63	66	59	56	42
85°	11	23	21	16	15	12
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	255.1	255.1	255.1	255.1	255.1
2.5°	258.9	258.0	266.4	267.4	267.4
5°	258.0	263.7	274.0	275.0	275.0
7.5°	256.1	267.4	275.9	282.5	285.4
10°	255.1	268.4	281.6	286.3	290.1
12.5°	252.3	266.4	282.5	293.0	298.6
15°	249.5	263.7	284.4	298.6	304.3
17.5°	245.7	261.7	286.3	301.4	308.0
20°	241.0	258.9	284.4	303.3	312.8
22.5°	236.2	252.3	280.7	302.4	310.0
25°	229.6	245.7	276.9	298.6	307.1
27.5°	223.0	239.1	274.0	294.8	302.4
30°	217.3	232.5	266.4	286.3	294.8
32.5°	209.8	224.9	258.0	277.8	285.4
35°	201.3	216.4	248.5	266.4	271.2
37.5°	193.7	206.9	239.1	253.2	257.0
40°	184.2	196.5	228.7	239.1	242.8
42.5°	175.8	188.0	216.4	227.8	227.8
45°	165.4	176.7	204.1	211.7	212.6
47.5°	155.0	168.2	192.8	197.5	197.5
50°	144.6	158.8	180.5	184.2	184.2
52.5°	134.2	148.3	169.2	171.0	170.1
55°	122.9	138.9	158.8	157.8	156.9
57.5°	110.6	128.5	146.5	144.6	144.6
60°	100.2	119.0	135.1	132.3	131.3
62.5°	88.8	108.7	123.8	120.0	118.1
65°	77.5	99.2	112.4	106.8	104.9
67.5°	67.1	90.7	101.1	93.6	91.7
70°	57.7	81.3	90.7	81.3	79.4
72.5°	48.2	71.8	78.4	69.9	67.1
75°	39.7	63.3	66.1	58.6	55.7
77.5°	31.2	53.8	53.8	46.3	45.4
80°	23.6	44.4	42.5	35.9	35.0
82.5°	17.0	33.1	32.1	26.5	24.6
85°	11.3	22.7	20.8	16.1	15.1
87.5°	5.7	11.3	9.5	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)