

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: P184010

Luminaire Tested: **12SR-LD2-9-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184010  
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-L850-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

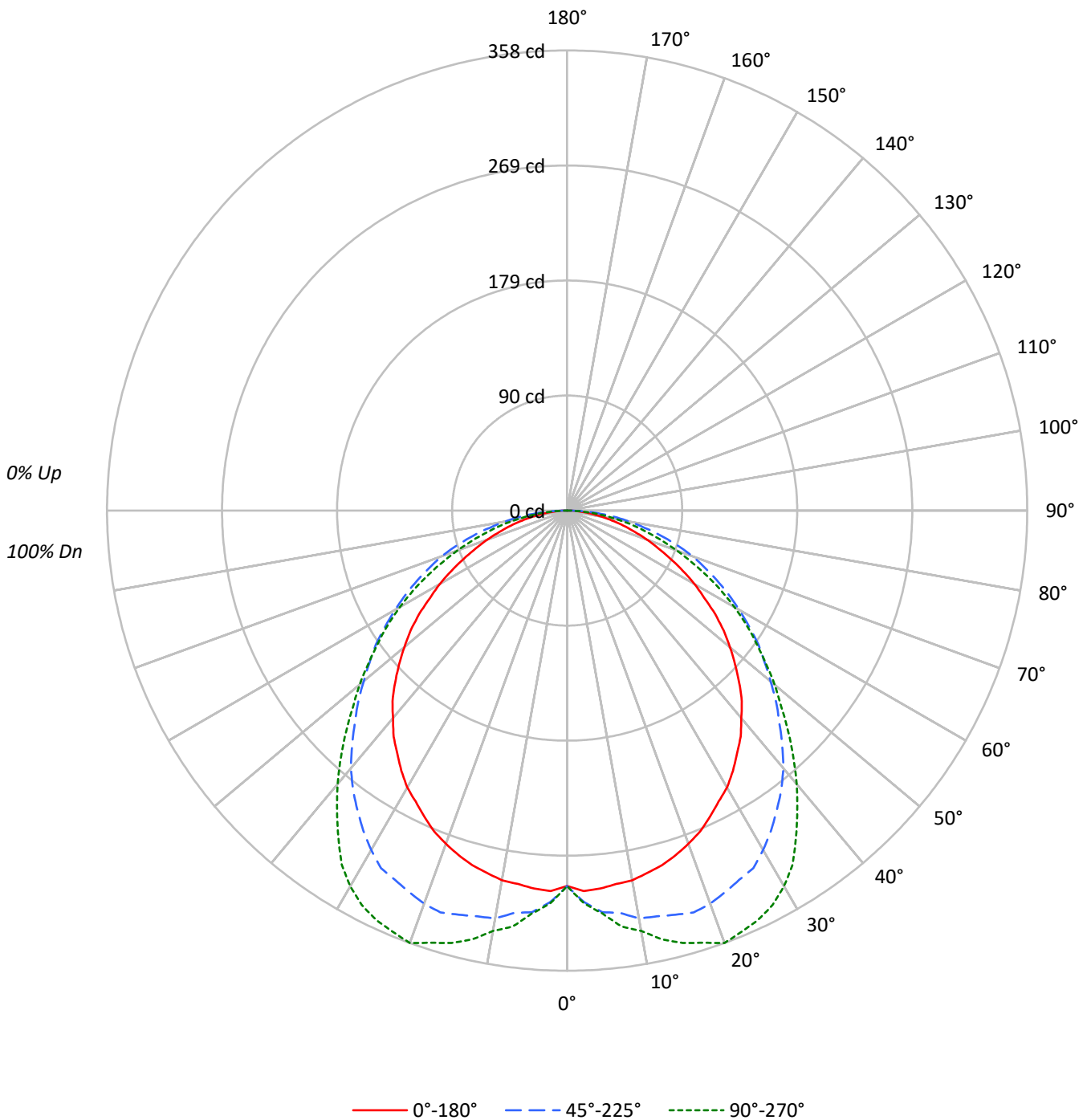
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 972.7 lumens  
Efficiency: N/A  
Efficacy: 106.9 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°	1572	1572	1572
5°	1595	1694	1700
10°	1596	1761	1814
15°	1591	1814	1940
20°	1580	1864	2050
25°	1561	1882	2087
30°	1546	1895	2097
35°	1514	1869	2039
40°	1481	1839	1952
45°	1441	1777	1852
50°	1385	1729	1765
55°	1319	1705	1684
60°	1234	1664	1618
65°	1130	1639	1528
70°	1039	1633	1429
75°	944	1574	1327
80°	837	1509	1240
85°	797	1470	1068



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.7	3.1
10°-20°	91.0	9.4
20°-30°	143.7	14.8
30°-40°	172.9	17.8
40°-50°	172.9	17.8
50°-60°	152.1	15.6
60°-70°	116.3	12.0
70°-80°	71.1	7.3
80°-90°	23.0	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°	264.4	27.2
0°-40°	437.2	45.0
0°-60°	762.3	78.4
0°-90°	972.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	972.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	292	292	292	292	292	
5°	295	302	314	315	315	28
15°	286	302	326	342	348	81
25°	263	281	317	342	351	121
35°	230	248	284	305	310	144
45°	189	202	234	242	243	146
55°	141	159	182	181	180	125
65°	89	114	129	122	120	88
75°	45	72	76	67	64	48
85°	13	26	24	18	17	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	292.0	292.0	292.0	292.0	292.0
2.5°	296.3	295.2	304.9	306.0	306.0
5°	295.2	301.7	313.6	314.7	314.7
7.5°	293.0	306.0	315.7	323.3	326.5
10°	292.0	307.1	322.2	327.7	332.0
12.5°	288.7	304.9	323.3	335.2	341.7
15°	285.5	301.7	325.5	341.7	348.2
17.5°	281.1	299.5	327.7	344.9	352.5
20°	275.8	296.3	325.5	347.1	357.9
22.5°	270.3	288.7	321.2	346.0	354.7
25°	262.8	281.1	316.9	341.7	351.4
27.5°	255.2	273.6	313.6	337.4	346.0
30°	248.7	266.0	304.9	327.7	337.4
32.5°	240.0	257.4	295.2	317.9	326.5
35°	230.4	247.6	284.4	304.9	310.3
37.5°	221.7	236.8	273.6	289.8	294.1
40°	210.8	224.9	261.7	273.6	277.9
42.5°	201.1	215.2	247.6	260.6	260.6
45°	189.3	202.2	233.5	242.2	243.3
47.5°	177.3	192.5	220.6	226.0	226.0
50°	165.4	181.7	206.5	210.8	210.8
52.5°	153.5	169.7	193.6	195.7	194.6
55°	140.6	158.9	181.7	180.6	179.5
57.5°	126.5	147.0	167.6	165.4	165.4
60°	114.6	136.2	154.6	151.4	150.3
62.5°	101.6	124.3	141.7	137.3	135.2
65°	88.7	113.5	128.7	122.2	120.0
67.5°	76.8	103.8	115.7	107.1	104.9
70°	66.0	93.0	103.8	93.0	90.8
72.5°	55.2	82.2	89.8	80.0	76.8
75°	45.4	72.4	75.7	67.0	63.8
77.5°	35.7	61.6	61.6	53.0	51.9
80°	27.0	50.8	48.7	41.1	40.0
82.5°	19.5	37.8	36.8	30.3	28.1
85°	12.9	26.0	23.8	18.4	17.3
87.5°	6.5	12.9	10.8	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)