

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: P183990

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183990  
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-L850-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

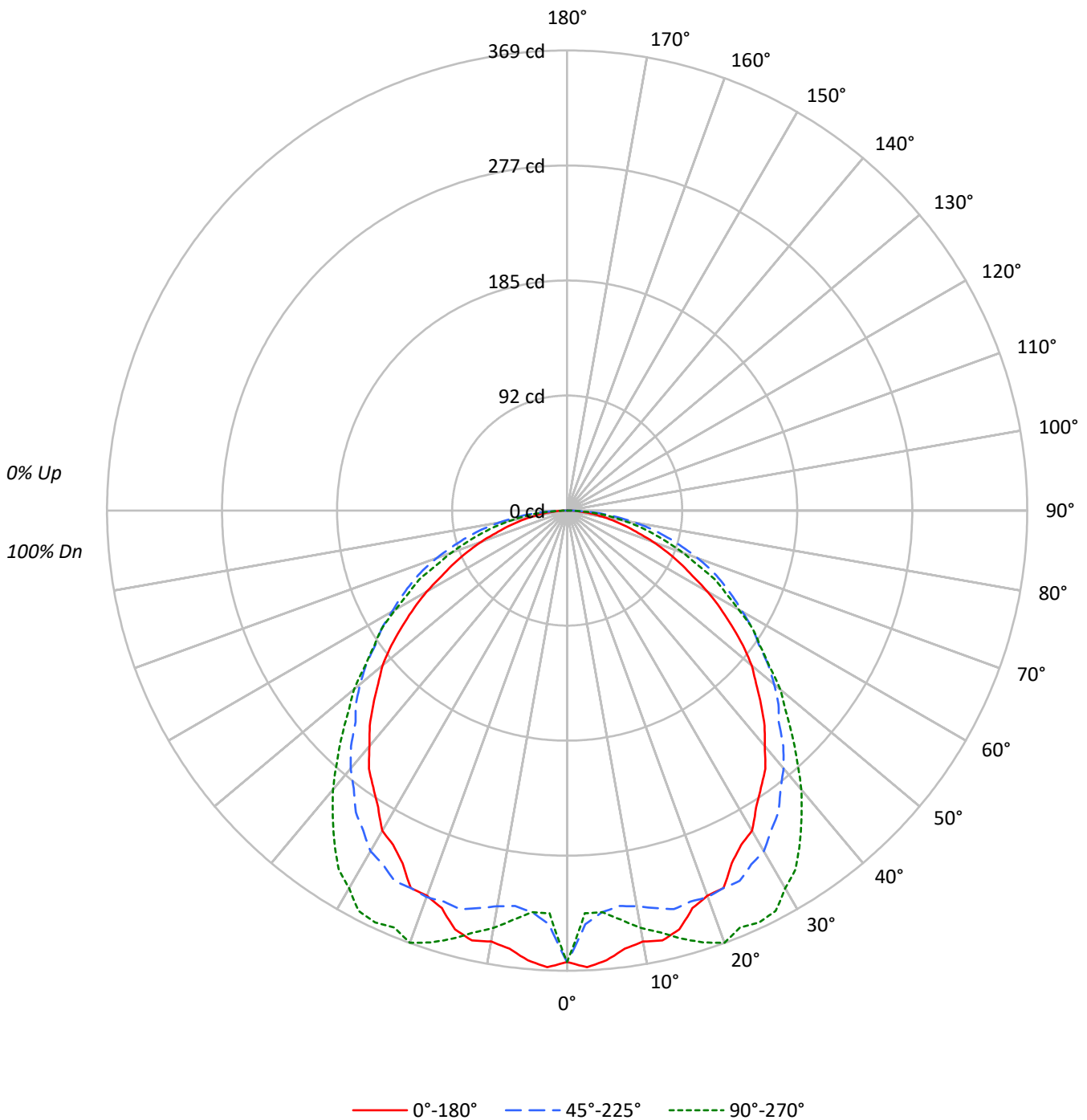
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1029.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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



TEST NUMBER: P183990  
CATALOG NUMBER: 12SR-LD2-9-C-UNV-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P183990

CATALOG NUMBER: 12SR-LD2-9-C-UNV-L850-CD1-U

**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°	1948	1948	1948
5°	1956	1746	1746
10°	1918	1760	1857
15°	1937	1844	1980
20°	1883	1889	2112
25°	1853	1945	2163
30°	1843	1960	2174
35°	1781	1941	2138
40°	1732	1896	2052
45°	1674	1826	1944
50°	1618	1814	1869
55°	1511	1761	1772
60°	1398	1745	1709
65°	1272	1754	1668
70°	1153	1748	1555
75°	1017	1732	1478
80°	896	1720	1410
85°	821	1649	1303



TEST NUMBER: P183990

CATALOG NUMBER: 12SR-LD2-9-C-UNV-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.6	3.1
10°-20°	94.6	9.2
20°-30°	150.6	14.6
30°-40°	181.4	17.6
40°-50°	181.9	17.7
50°-60°	160.9	15.6
60°-70°	124.2	12.1
70°-80°	77.9	7.6
80°-90°	25.9	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°	276.8	26.9
0°-40°	458.2	44.5
0°-60°	800.9	77.8
0°-90°	1029.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1029.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	362	362	362	362	362	
5°	362	326	323	325	323	34
15°	348	308	331	350	355	97
25°	312	290	328	358	364	145
35°	271	252	295	318	325	170
45°	220	210	240	250	255	170
55°	161	164	188	190	189	144
65°	100	120	138	130	131	99
75°	49	78	83	73	71	52
85°	13	29	27	22	21	15
90°	0	0	0	0	0	



TEST NUMBER: P183990

CATALOG NUMBER: 12SR-LD2-9-C-UNV-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	362.0	362.0	362.0	362.0	362.0
2.5°	366.5	352.0	332.0	325.4	323.2
5°	362.0	326.5	323.2	325.4	323.2
7.5°	354.3	317.6	319.8	328.7	330.9
10°	350.9	318.7	322.1	337.6	339.8
12.5°	353.1	312.1	326.5	343.2	346.5
15°	347.6	307.6	330.9	349.8	355.4
17.5°	334.3	305.4	328.7	353.1	363.1
20°	328.7	302.1	329.8	356.5	368.7
22.5°	327.6	295.4	327.6	357.6	362.0
25°	312.1	289.8	327.6	357.6	364.3
27.5°	302.1	282.1	319.8	347.6	362.0
30°	296.5	272.1	315.4	340.9	349.8
32.5°	282.1	263.2	304.3	329.8	340.9
35°	271.0	252.1	295.4	317.6	325.4
37.5°	261.0	242.1	281.0	302.1	308.7
40°	246.5	232.1	269.9	285.4	292.1
42.5°	234.3	222.1	256.5	271.0	273.2
45°	219.9	209.9	239.9	249.9	255.4
47.5°	205.4	197.7	229.9	235.4	237.7
50°	193.2	187.7	216.6	221.0	223.2
52.5°	177.7	175.5	203.2	204.3	204.3
55°	161.0	164.4	187.7	189.9	188.8
57.5°	145.5	153.3	176.6	174.4	176.6
60°	129.9	141.0	162.1	161.0	158.8
62.5°	113.3	131.0	149.9	145.5	143.3
65°	99.9	119.9	137.7	129.9	131.0
67.5°	86.6	108.8	125.5	114.4	112.2
70°	73.3	97.7	111.1	101.1	98.8
72.5°	60.0	88.8	96.6	86.6	84.4
75°	48.9	77.7	83.3	73.3	71.1
77.5°	38.9	66.6	70.0	61.1	58.9
80°	28.9	55.5	55.5	47.8	45.5
82.5°	21.1	42.2	41.1	34.4	34.4
85°	13.3	28.9	26.7	22.2	21.1
87.5°	6.7	13.3	12.2	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)