

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: P183989

Luminaire Tested: **12SR-LD2-9-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183989  
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-L840-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 1X2 TROFFER  
  
Light Source: EATON LED 4000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

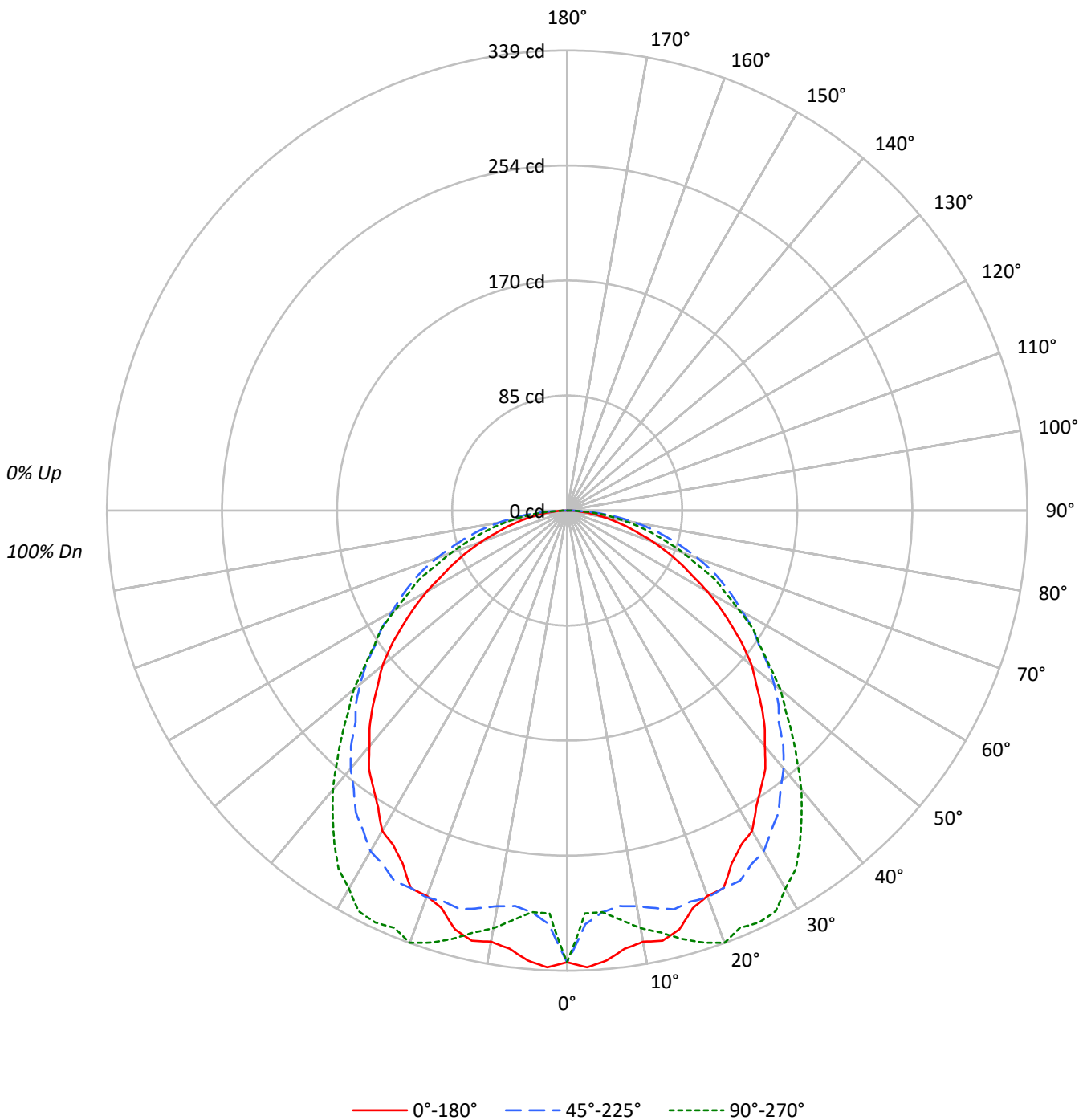
Lumens per Lamp: N/A  
Luminaire Lumens: 945.5 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.39 / 1.38  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9.1  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	1791	1791	1791
5°	1797	1605	1605
10°	1762	1617	1707
15°	1780	1694	1820
20°	1730	1736	1940
25°	1703	1787	1988
30°	1693	1801	1998
35°	1636	1783	1964
40°	1591	1742	1886
45°	1538	1678	1786
50°	1487	1666	1717
55°	1389	1619	1628
60°	1285	1604	1570
65°	1169	1611	1533
70°	1061	1605	1429
75°	934	1591	1358
80°	821	1581	1296
85°	753	1513	1198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.0	3.1
10°-20°	86.9	9.2
20°-30°	138.3	14.6
30°-40°	166.7	17.6
40°-50°	167.1	17.7
50°-60°	147.8	15.6
60°-70°	114.2	12.1
70°-80°	71.6	7.6
80°-90°	23.8	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°	254.3	26.9
0°-40°	421.1	44.5
0°-60°	736.0	77.8
0°-90°	945.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	945.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	333	333	333	333	333	
5°	333	300	297	299	297	31
15°	319	283	304	322	327	89
25°	287	266	301	329	335	133
35°	249	232	271	292	299	156
45°	202	193	220	230	235	156
55°	148	151	172	174	174	133
65°	92	110	126	119	120	91
75°	45	71	76	67	65	48
85°	12	26	24	20	19	14
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	332.7	332.7	332.7	332.7	332.7
2.5°	336.8	323.5	305.1	299.0	297.0
5°	332.7	300.0	297.0	299.0	297.0
7.5°	325.5	291.9	293.9	302.1	304.1
10°	322.5	292.9	295.9	310.2	312.3
12.5°	324.5	286.8	300.0	315.3	318.4
15°	319.4	282.7	304.1	321.5	326.6
17.5°	307.2	280.6	302.1	324.5	333.7
20°	302.1	277.6	303.1	327.6	338.8
22.5°	301.0	271.4	301.0	328.6	332.7
25°	286.8	266.3	301.0	328.6	334.7
27.5°	277.6	259.2	293.9	319.4	332.7
30°	272.5	250.0	289.8	313.3	321.5
32.5°	259.2	241.9	279.6	303.1	313.3
35°	249.0	231.7	271.4	291.9	299.0
37.5°	239.8	222.5	258.2	277.6	283.7
40°	226.5	213.3	248.0	262.3	268.4
42.5°	215.3	204.1	235.7	249.0	251.0
45°	202.1	192.9	220.4	229.6	234.7
47.5°	188.8	181.6	211.2	216.3	218.4
50°	177.6	172.5	199.0	203.1	205.1
52.5°	163.3	161.2	186.7	187.8	187.8
55°	148.0	151.0	172.5	174.5	173.5
57.5°	133.7	140.8	162.3	160.2	162.3
60°	119.4	129.6	149.0	148.0	145.9
62.5°	104.1	120.4	137.8	133.7	131.6
65°	91.8	110.2	126.5	119.4	120.4
67.5°	79.6	100.0	115.3	105.1	103.1
70°	67.4	89.8	102.0	92.9	90.8
72.5°	55.1	81.6	88.8	79.6	77.6
75°	44.9	71.4	76.5	67.4	65.3
77.5°	35.7	61.2	64.3	56.1	54.1
80°	26.5	51.0	51.0	43.9	41.8
82.5°	19.4	38.8	37.8	31.6	31.6
85°	12.2	26.5	24.5	20.4	19.4
87.5°	6.1	12.2	11.2	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)