

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: P219311

Luminaire Tested: **SSLED-LD5-9-N-UNV-L850-CD1-UPL-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

**Test Information**

Test Method: LM-79-08  
Report Number: P219311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27258)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SSLED-LD5-9-N-UNV-L850-CD1-UPL-U  
Description: METALUX ROUND HIGH BAY STEELER LED WITH NARROW DISTRIBUTION LENS WITH Rev.G BOARD. LENS DIFFUSE 2407, 7.5% BLEND.  
UPLIGHT REFLECTOR ACCESSORY INSTALLED. FIXTURE CENTERED TO LEDS  
Light Source: (240) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8276.6 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.84  
Luminous Opening: Circular (Dia: 1.41' x H: 0')  
CIE Type: Direct

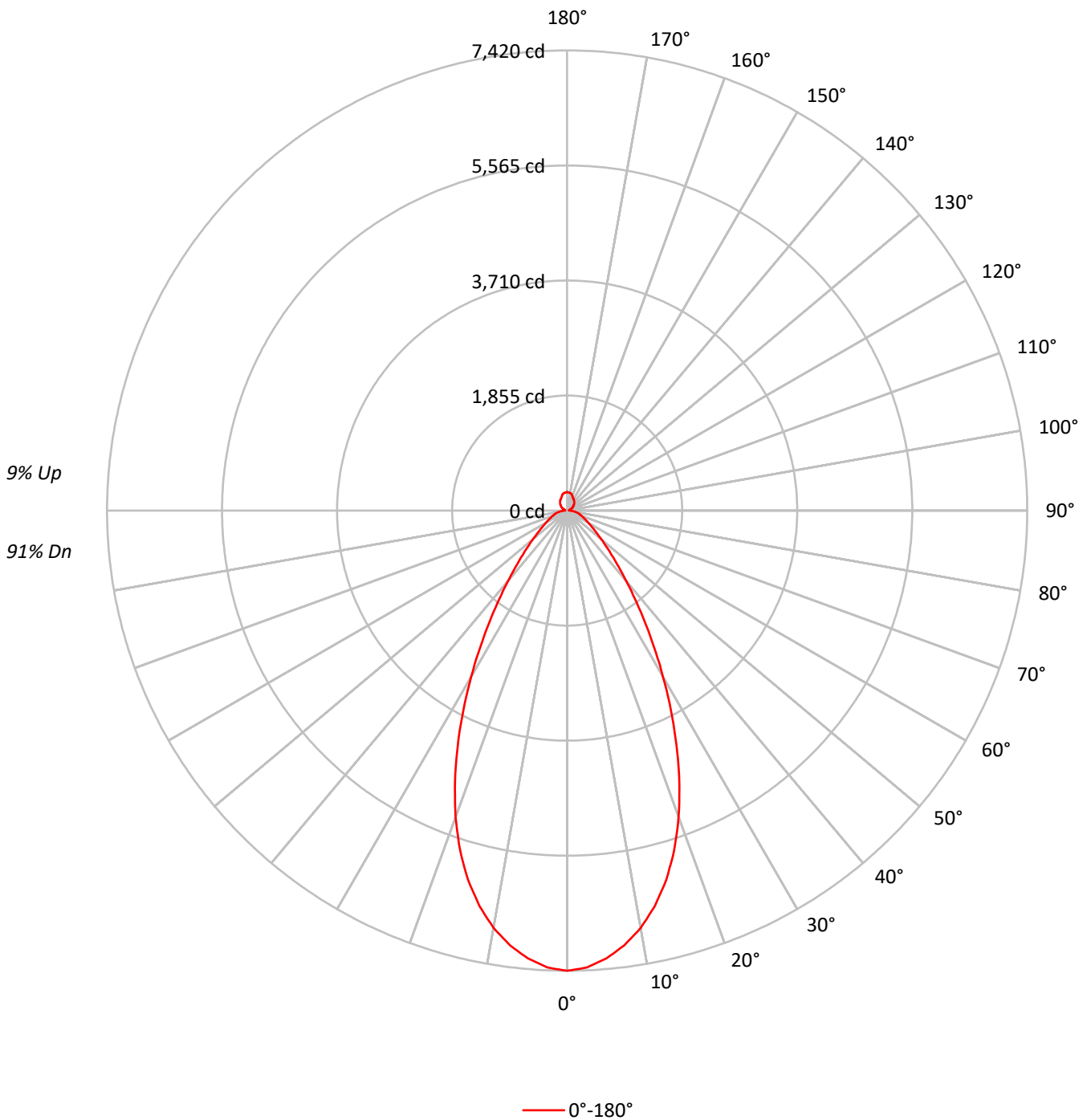
Input Watts (W): 64.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	117	117	117	117	113	113	113	113	106	106	106		100	100	100		94	94	94	91
1	109	106	103	100	106	103	100	97	97	95	93		92	90	88		87	86	84	82
2	102	96	91	87	99	94	89	85	89	85	82		85	82	79		80	78	76	74
3	96	88	82	77	93	86	80	76	82	77	73		78	74	71		75	72	69	67
4	90	81	74	69	87	79	73	68	76	70	66		72	68	64		69	66	63	61
5	84	74	67	62	82	73	66	62	70	65	60		67	63	59		65	61	58	56
6	79	69	62	57	77	68	61	56	65	60	55		63	58	54		61	56	53	51
7	75	64	57	52	73	63	57	52	61	55	51		59	54	50		57	53	49	48
8	71	60	53	48	69	59	53	48	57	51	47		55	50	47		54	49	46	44
9	67	56	49	45	65	55	49	45	54	48	44		52	47	43		51	46	43	41
10	64	53	46	42	62	52	46	42	51	45	41		49	44	41		48	43	40	39

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

	0°
0°	51148
5°	50158
10°	47825
15°	44012
20°	38564
25°	31732
30°	24603
35°	18245
40°	13288
45°	9925
50°	7666
55°	6270
60°	5475
65°	5045
70°	4950
75°	5290
80°	5824
85°	6573



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.8	8.2
10°-20°	1712.2	20.7
20°-30°	1901.8	23.0
30°-40°	1369.5	16.5
40°-50°	802.7	9.7
50°-60°	476.7	5.8
60°-70°	310.6	3.8
70°-80°	208.6	2.5
80°-90°	98.3	1.2
90°-100°	34.8	0.4
100°-110°	43.3	0.5
110°-120°	78.8	1.0
120°-130°	106.8	1.3
130°-140°	123.3	1.5
140°-150°	122.0	1.5
150°-160°	104.3	1.3
160°-170°	76.3	0.9
170°-180°	27.8	0.3
0°-30°	4292.8	51.9
0°-40°	5662.3	68.4
0°-60°	6941.7	83.9
0°-90°	7559.3	91.3
90°-120°	156.9	1.9
90°-150°	508.9	6.1
90°-180°	717.0	8.7
0°-180°	8276.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7420	
5°	7248	679
15°	6167	1712
25°	4172	1902
35°	2168	1370
45°	1018	803
55°	522	477
65°	309	311
75°	199	209
85°	83	84
90°	45	25
95°	29	25
105°	39	43
115°	80	79
125°	119	107
135°	160	123
145°	195	122
155°	225	104
165°	275	76
175°	294	28
180°	297	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	7419.7
2.5°	7373.8
5°	7248.4
7.5°	7068.5
10°	6832.3
12.5°	6528.9
15°	6167.0
17.5°	5741.0
20°	5256.9
22.5°	4726.4
25°	4171.9
27.5°	3618.5
30°	3090.8
32.5°	2604.7
35°	2168.0
37.5°	1790.3
40°	1476.6
42.5°	1222.2
45°	1018.1
47.5°	851.2
50°	714.8
52.5°	606.4
55°	521.7
57.5°	453.3
60°	397.1
62.5°	349.7
65°	309.3
67.5°	275.3
70°	245.6
72.5°	221.5
75°	198.6
77.5°	174.0
80°	146.7
82.5°	119.1
85°	83.1
87.5°	62.9
90°	45.1
92.5°	28.9
95°	29.3
97.5°	30.5
100°	32.4
102.5°	34.8
105°	38.8
107.5°	45.9
110°	57.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	69.6
115°	80.3
117.5°	90.2
120°	99.7
122.5°	109.2
125°	119.1
127.5°	129.3
130°	140.4
132.5°	150.3
135°	159.8
137.5°	169.3
140°	178.4
142.5°	187.1
145°	195.0
147.5°	202.9
150°	210.0
152.5°	217.2
155°	225.1
157.5°	234.6
160°	246.8
162.5°	262.6
165°	275.3
167.5°	280.8
170°	285.6
172.5°	289.9
175°	293.9
177.5°	295.9
180°	297.1

(END OF REPORT)