

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: P219380

Luminaire Tested: **SSLED-LD5-15-M-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: P219380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27259)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SSLED-LD5-15-M-UNV-L850-CD1-UPL-U  
Description: METALUX ROUND HIGH BAY STEELER LED WITH MEDIUM 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: 14033.7 lumens  
Efficiency: N/A  
Efficacy: 126.7 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.18  
Luminous Opening: Circular (Dia: 1.41' x H: 0')  
CIE Type: Direct

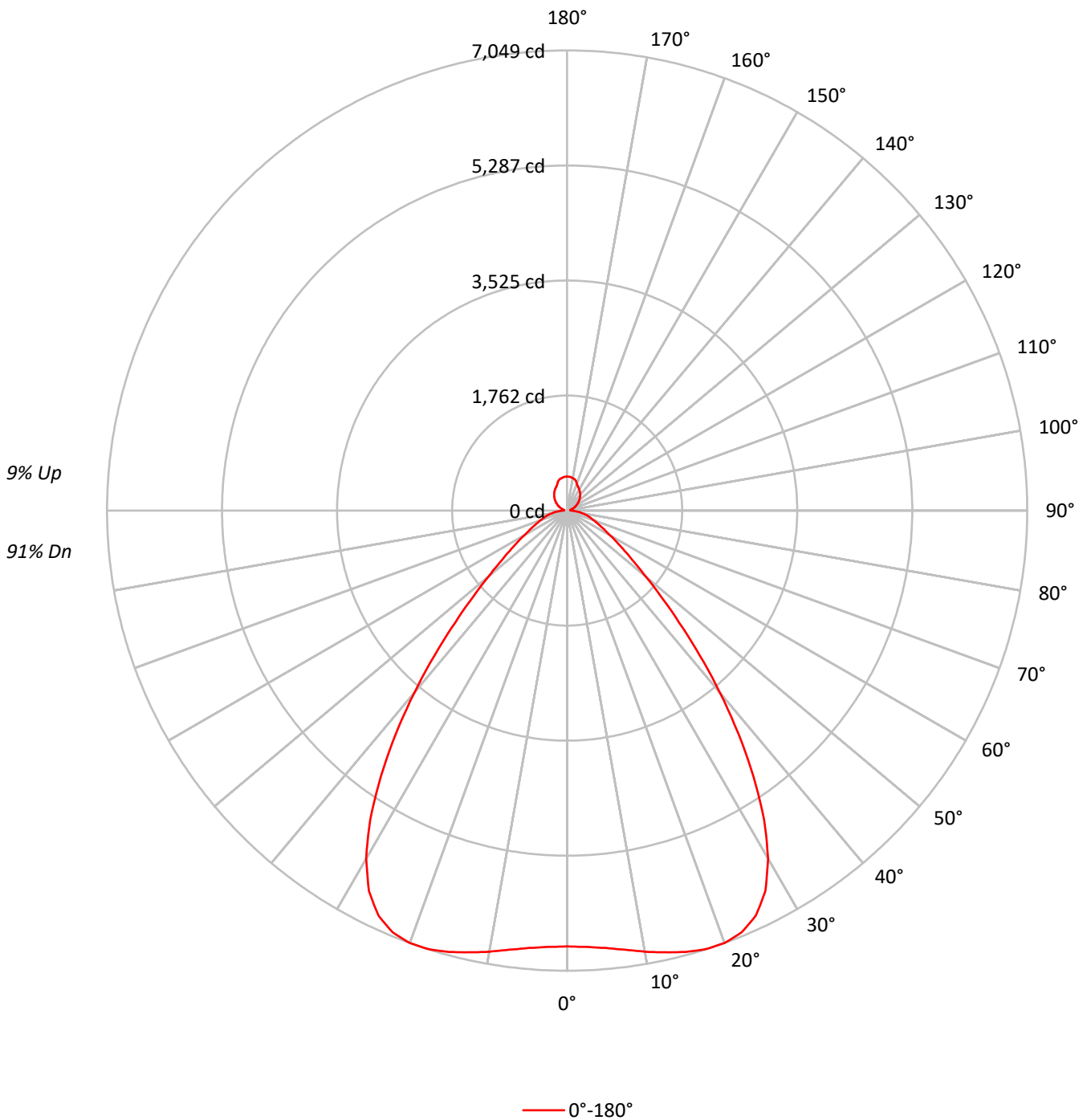
Input Watts (W): 110.74  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	102	99	105	102	99	96	96	94	92	91	89	87	86	85	83	81
2	101	95	89	85	98	92	87	83	87	83	80	83	80	77	79	76	74	72
3	94	86	79	74	91	83	77	73	79	74	70	76	71	68	72	69	66	64
4	88	78	70	65	85	76	69	64	72	67	62	69	64	61	66	62	59	57
5	82	71	63	58	79	69	62	57	66	60	56	64	58	54	61	57	53	51
6	76	65	57	52	74	64	56	51	61	55	50	59	53	49	56	52	48	46
7	71	60	52	47	69	58	51	46	56	50	46	54	49	45	52	47	44	42
8	67	55	48	43	65	54	47	42	52	46	41	50	45	41	49	44	40	38
9	63	51	44	39	61	50	43	39	48	42	38	47	41	37	45	40	37	35
10	59	47	40	36	57	47	40	35	45	39	35	44	38	34	42	37	34	32

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

	0°
0°	46008
5°	46537
10°	48027
15°	49955
20°	51714
25°	52057
30°	49014
35°	41875
40°	32769
45°	23637
50°	16844
55°	12865
60°	10521
65°	9247
70°	8673
75°	8933
80°	9551
85°	10290



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	646.3	4.6
10°-20°	1982.4	14.1
20°-30°	3113.9	22.2
30°-40°	3077.8	21.9
40°-50°	1910.8	13.6
50°-60°	986.9	7.0
60°-70°	571.5	4.1
70°-80°	353.8	2.5
80°-90°	156.0	1.1
90°-100°	55.9	0.4
100°-110°	73.3	0.5
110°-120°	130.2	0.9
120°-130°	180.9	1.3
130°-140°	212.1	1.5
140°-150°	213.7	1.5
150°-160°	184.6	1.3
160°-170°	134.8	1.0
170°-180°	48.9	0.3
0°-30°	5742.7	40.9
0°-40°	8820.5	62.9
0°-60°	11718.1	83.5
0°-90°	12799.3	91.2
90°-120°	259.3	1.8
90°-150°	866.1	6.2
90°-180°	1234.0	8.8
0°-180°	14033.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6674	
5°	6725	646
15°	7000	1982
25°	6844	3114
35°	4976	3078
45°	2425	1911
55°	1070	987
65°	567	571
75°	335	354
85°	130	133
90°	69	38
95°	48	40
105°	66	73
115°	132	130
125°	202	181
135°	275	212
145°	342	214
155°	399	185
165°	486	135
175°	517	49
180°	520	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6674.1
2.5°	6691.1
5°	6725.1
7.5°	6783.3
10°	6861.1
12.5°	6931.1
15°	6999.7
17.5°	7046.2
20°	7049.4
22.5°	6991.2
25°	6844.1
27.5°	6572.8
30°	6157.5
32.5°	5613.5
35°	4976.0
37.5°	4307.7
40°	3641.4
42.5°	3003.3
45°	2424.6
47.5°	1949.2
50°	1570.6
52.5°	1290.1
55°	1070.4
57.5°	903.0
60°	763.1
62.5°	653.9
65°	566.9
67.5°	493.7
70°	430.3
72.5°	380.6
75°	335.4
77.5°	289.0
80°	240.6
82.5°	190.9
85°	130.1
87.5°	96.8
90°	69.3
92.5°	45.1
95°	47.7
97.5°	50.3
100°	54.3
102.5°	59.5
105°	66.0
107.5°	77.2
110°	95.5



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	114.4
115°	132.1
117.5°	149.1
120°	166.1
122.5°	184.4
125°	202.0
127.5°	220.4
130°	239.3
132.5°	257.6
135°	275.3
137.5°	292.3
140°	309.3
142.5°	326.3
145°	342.0
147.5°	357.0
150°	371.4
152.5°	384.5
155°	398.9
157.5°	415.2
160°	436.1
162.5°	464.3
165°	485.8
167.5°	495.6
170°	502.8
172.5°	510.7
175°	517.2
177.5°	519.8
180°	520.5

(END OF REPORT)