

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: P219320

Luminaire Tested: **SSLED-LD5-18-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: P219320  
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-LD5-18-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: 16073.3 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

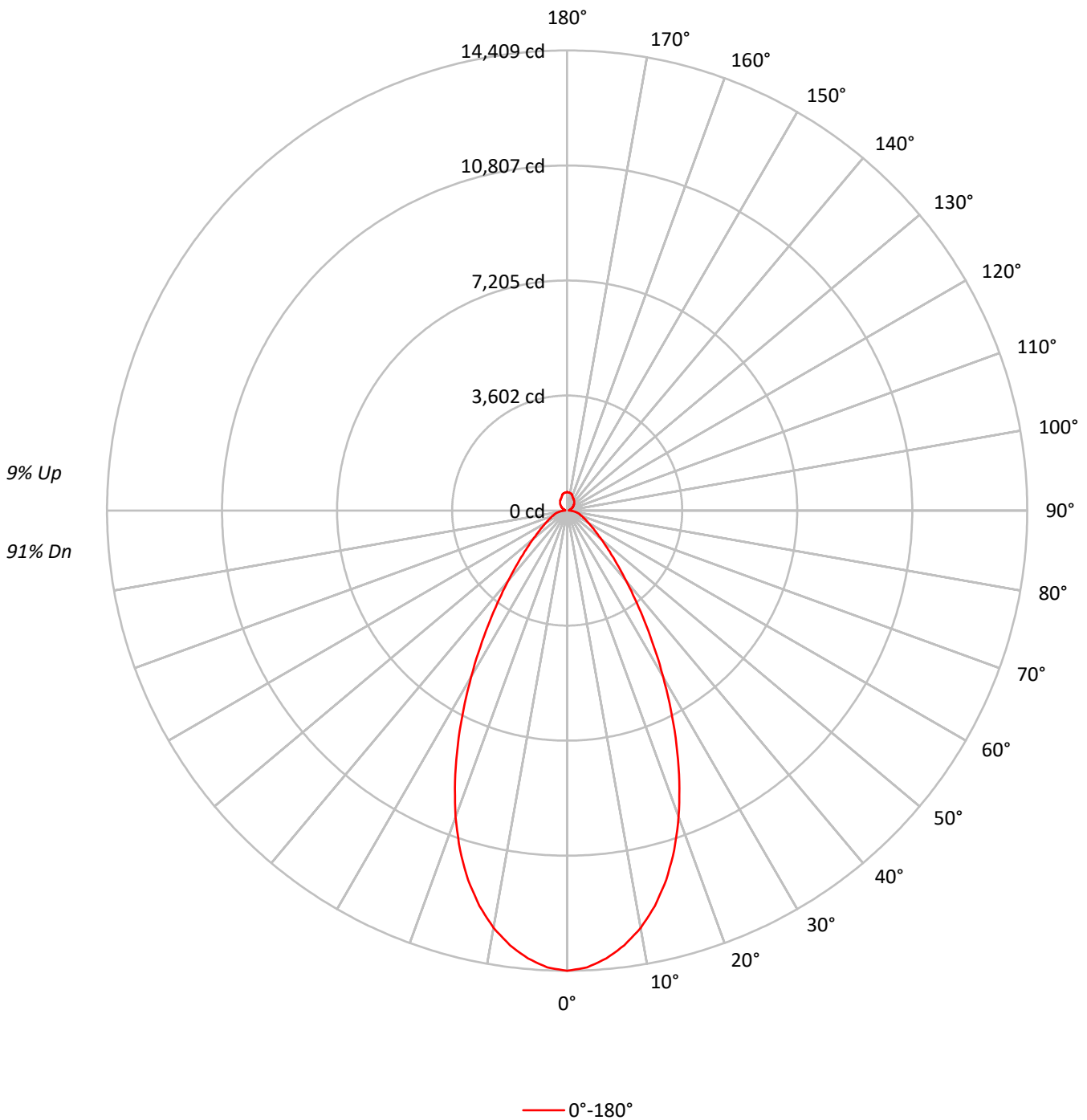
Input Watts (W): 133.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	99332
5°	97410
10°	92879
15°	85474
20°	74893
25°	61624
30°	47780
35°	35432
40°	25805
45°	19277
50°	14887
55°	12177
60°	10633
65°	9798
70°	9614
75°	10270
80°	11314
85°	12758



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1318.3	8.2
10°-20°	3325.1	20.7
20°-30°	3693.3	23.0
30°-40°	2659.7	16.5
40°-50°	1558.9	9.7
50°-60°	925.7	5.8
60°-70°	603.3	3.8
70°-80°	405.2	2.5
80°-90°	190.9	1.2
90°-100°	67.5	0.4
100°-110°	84.1	0.5
110°-120°	152.9	1.0
120°-130°	207.4	1.3
130°-140°	239.4	1.5
140°-150°	236.9	1.5
150°-160°	202.5	1.3
160°-170°	148.3	0.9
170°-180°	53.9	0.3
0°-30°	8336.7	51.9
0°-40°	10996.4	68.4
0°-60°	13481.1	83.9
0°-90°	14680.4	91.3
90°-120°	304.5	1.9
90°-150°	988.2	6.1
90°-180°	1393.0	8.7
0°-180°	16073.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	14409	
5°	14077	###
15°	11977	3325
25°	8102	3693
35°	4210	2660
45°	1977	1559
55°	1013	926
65°	601	603
75°	386	405
85°	161	162
90°	88	48
95°	57	48
105°	75	84
115°	156	153
125°	231	207
135°	310	239
145°	379	237
155°	437	202
165°	535	148
175°	571	54
180°	577	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	14409.4
2.5°	14320.3
5°	14076.8
7.5°	13727.2
10°	13268.6
12.5°	12679.4
15°	11976.6
17.5°	11149.3
20°	10209.0
22.5°	9178.9
25°	8101.9
27.5°	7027.2
30°	6002.5
32.5°	5058.4
35°	4210.4
37.5°	3476.7
40°	2867.6
42.5°	2373.7
45°	1977.3
47.5°	1653.1
50°	1388.1
52.5°	1177.6
55°	1013.2
57.5°	880.3
60°	771.2
62.5°	679.1
65°	600.7
67.5°	534.6
70°	477.0
72.5°	430.2
75°	385.6
77.5°	338.0
80°	285.0
82.5°	231.2
85°	161.3
87.5°	122.1
90°	87.6
92.5°	56.1
95°	56.8
97.5°	59.1
100°	63.0
102.5°	67.6
105°	75.3
107.5°	89.1
110°	110.6



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	135.2
115°	155.9
117.5°	175.1
120°	193.6
122.5°	212.0
125°	231.2
127.5°	251.2
130°	272.7
132.5°	291.9
135°	310.3
137.5°	328.8
140°	346.4
142.5°	363.3
145°	378.7
147.5°	394.1
150°	407.9
152.5°	421.7
155°	437.1
157.5°	455.5
160°	479.3
162.5°	510.1
165°	534.6
167.5°	545.4
170°	554.6
172.5°	563.1
175°	570.8
177.5°	574.6
180°	576.9

(END OF REPORT)