

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: P219319

Luminaire Tested: **SSLED-LD5-18-N-UNV-L840-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: P219319  
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-L840-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) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15580.7 lumens  
Efficiency: N/A  
Efficacy: 116.4 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

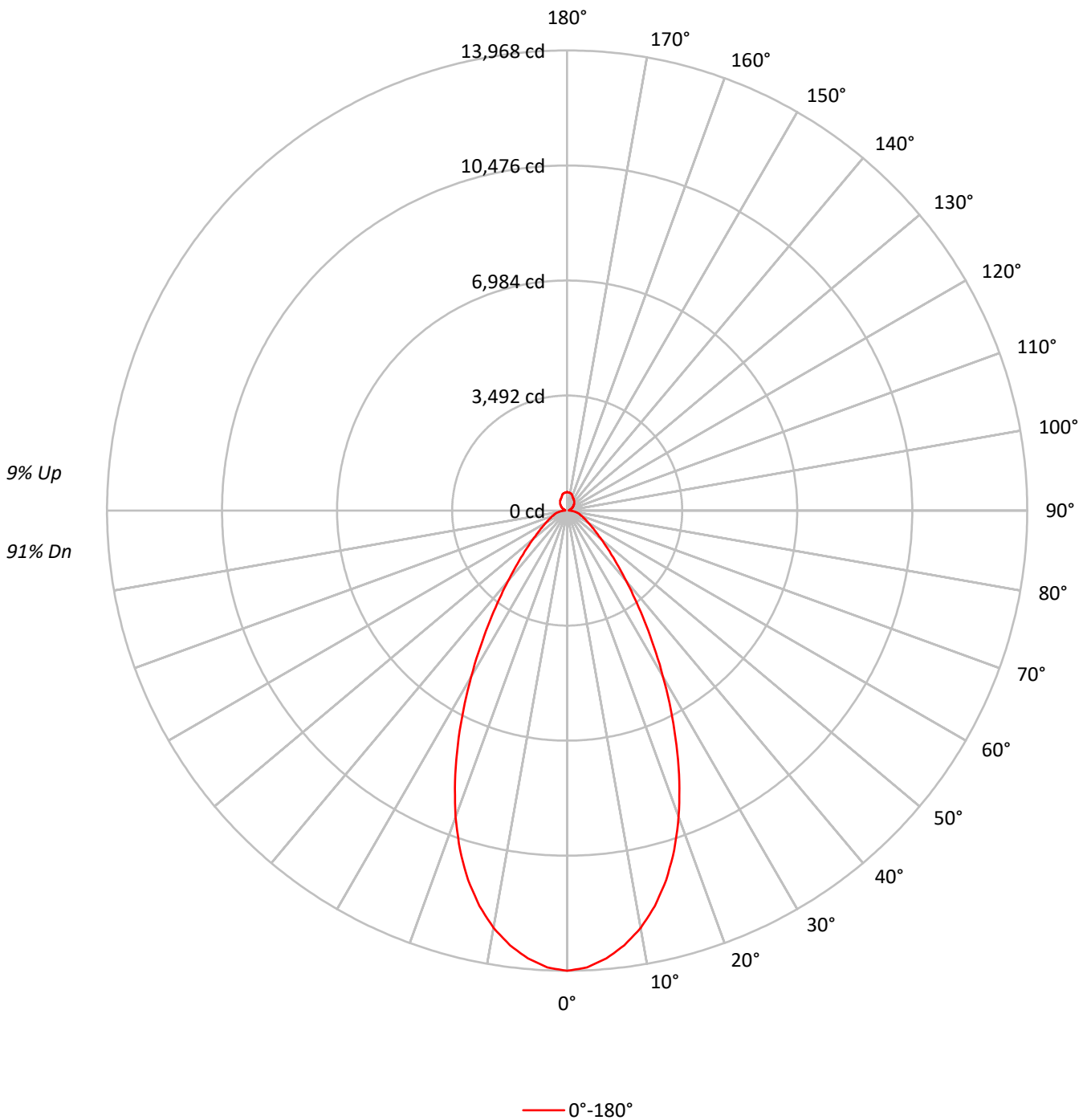
Input Watts (W): 133.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	96286
5°	94423
10°	90032
15°	82853
20°	72597
25°	59735
30°	46315
35°	34346
40°	25014
45°	18686
50°	14430
55°	11805
60°	10307
65°	9498
70°	9320
75°	9956
80°	10969
85°	12370



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1277.8	8.2
10°-20°	3223.2	20.7
20°-30°	3580.1	23.0
30°-40°	2578.1	16.5
40°-50°	1511.1	9.7
50°-60°	897.4	5.8
60°-70°	584.8	3.8
70°-80°	392.8	2.5
80°-90°	185.1	1.2
90°-100°	65.4	0.4
100°-110°	81.6	0.5
110°-120°	148.3	1.0
120°-130°	201.0	1.3
130°-140°	232.1	1.5
140°-150°	229.6	1.5
150°-160°	196.3	1.3
160°-170°	143.7	0.9
170°-180°	52.3	0.3
0°-30°	8081.1	51.9
0°-40°	10659.3	68.4
0°-60°	13067.8	83.9
0°-90°	14230.4	91.3
90°-120°	295.3	1.9
90°-150°	958.0	6.1
90°-180°	1350.0	8.7
0°-180°	15580.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	13968	
5°	13645	###
15°	11609	3223
25°	7854	3580
35°	4081	2578
45°	1917	1511
55°	982	897
65°	582	585
75°	374	393
85°	156	157
90°	85	47
95°	55	46
105°	73	82
115°	151	148
125°	224	201
135°	301	232
145°	367	230
155°	424	196
165°	518	144
175°	553	52
180°	559	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	13967.6
2.5°	13881.3
5°	13645.2
7.5°	13306.4
10°	12861.9
12.5°	12290.7
15°	11609.4
17.5°	10807.5
20°	9896.0
22.5°	8897.5
25°	7853.5
27.5°	6811.8
30°	5818.5
32.5°	4903.3
35°	4081.3
37.5°	3370.2
40°	2779.7
42.5°	2300.9
45°	1916.7
47.5°	1602.4
50°	1345.5
52.5°	1141.5
55°	982.2
57.5°	853.3
60°	747.6
62.5°	658.2
65°	582.3
67.5°	518.3
70°	462.4
72.5°	417.0
75°	373.8
77.5°	327.6
80°	276.3
82.5°	224.1
85°	156.4
87.5°	118.4
90°	84.9
92.5°	54.4
95°	55.1
97.5°	57.3
100°	61.1
102.5°	65.5
105°	73.0
107.5°	86.4
110°	107.2



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	131.1
115°	151.2
117.5°	169.8
120°	187.6
122.5°	205.5
125°	224.1
127.5°	243.5
130°	264.3
132.5°	283.0
135°	300.8
137.5°	318.7
140°	335.8
142.5°	352.2
145°	367.1
147.5°	382.0
150°	395.4
152.5°	408.8
155°	423.7
157.5°	441.6
160°	464.6
162.5°	494.4
165°	518.3
167.5°	528.7
170°	537.6
172.5°	545.8
175°	553.3
177.5°	557.0
180°	559.2

(END OF REPORT)