

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: P219298

Luminaire Tested: **SSLED-LD5-18-N-UNV-L840-CD1-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: P219298  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27366)  
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-U  
Description: METALUX ROUND HIGH BAY STEELER LED WITH NARROW DISTRIBUTION LENS WITH Rev.G BOARD. LENS DIFFUSE 2407, 7.5% BLEND.  
Light Source: (240) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18026.0 lumens  
Efficiency: N/A  
Efficacy: 134.7 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

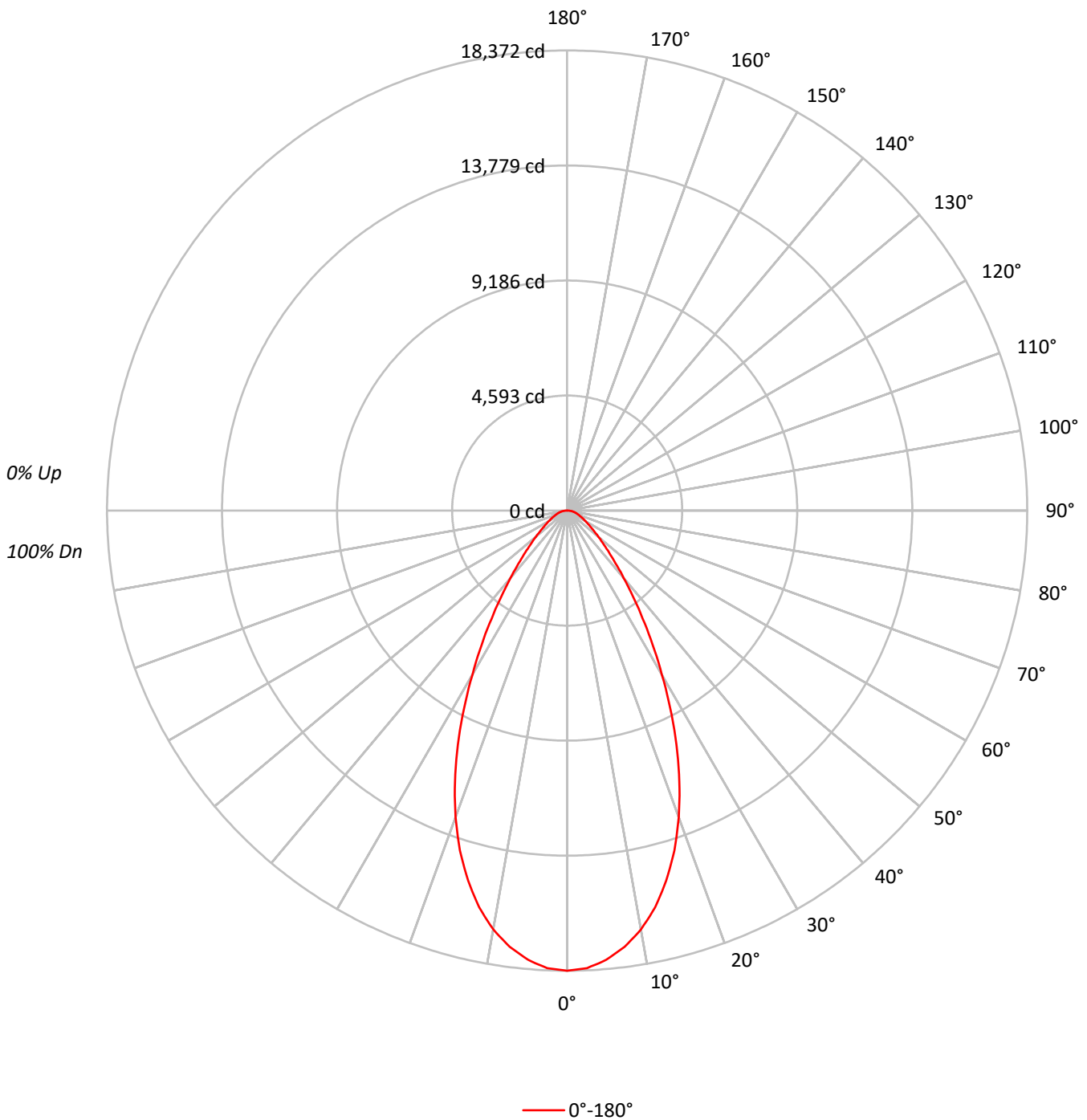
Input Watts (W): 133.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68
5	88	78	71	66	86	77	71	66	75	70	65	73	69	65	72	68	64	63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54
8	74	64	57	52	73	63	57	52	62	56	52	61	55	52	60	55	51	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47
10	67	56	50	46	66	56	50	46	55	49	45	54	49	45	53	49	45	44

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

	0°
0°	126652
5°	124574
10°	118858
15°	109140
20°	95564
25°	78496
30°	60222
35°	44222
40°	31588
45°	22968
50°	17434
55°	13827
60°	11611
65°	10337
70°	9650
75°	9461
80°	9726
85°	10599



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1686.0	9.4
10°-20°	4248.4	23.6
20°-30°	4698.1	26.1
30°-40°	3317.3	18.4
40°-50°	1866.9	10.4
50°-60°	1053.6	5.8
60°-70°	636.7	3.5
70°-80°	378.0	2.1
80°-90°	141.0	0.8
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°	10632.5	59.0
0°-40°	13949.8	77.4
0°-60°	16870.3	93.6
0°-90°	18026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18026.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18372	
5°	18002	###
15°	15293	4248
25°	10320	4698
35°	5255	3317
45°	2356	1867
55°	1150	1054
65°	634	637
75°	355	378
85°	134	141
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	18372.5
2.5°	18283.9
5°	18002.4
7.5°	17566.8
10°	16980.0
12.5°	16226.5
15°	15292.7
17.5°	14233.8
20°	13026.8
22.5°	11711.0
25°	10320.0
27.5°	8917.8
30°	7565.6
32.5°	6347.3
35°	5254.9
37.5°	4300.3
40°	3510.2
42.5°	2869.1
45°	2356.0
47.5°	1951.7
50°	1625.6
52.5°	1361.9
55°	1150.5
57.5°	980.7
60°	842.2
62.5°	729.0
65°	633.7
67.5°	551.8
70°	478.8
72.5°	414.8
75°	355.2
77.5°	300.8
80°	245.0
82.5°	189.9
85°	134.0
87.5°	71.5
90°	0.0

(END OF REPORT)