

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: P219381

Luminaire Tested: **SSLED-LD5-18-M-UNV-L835-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: P219381  
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-LD5-18-M-UNV-L835-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) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14942.3 lumens  
Efficiency: N/A  
Efficacy: 111.7 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

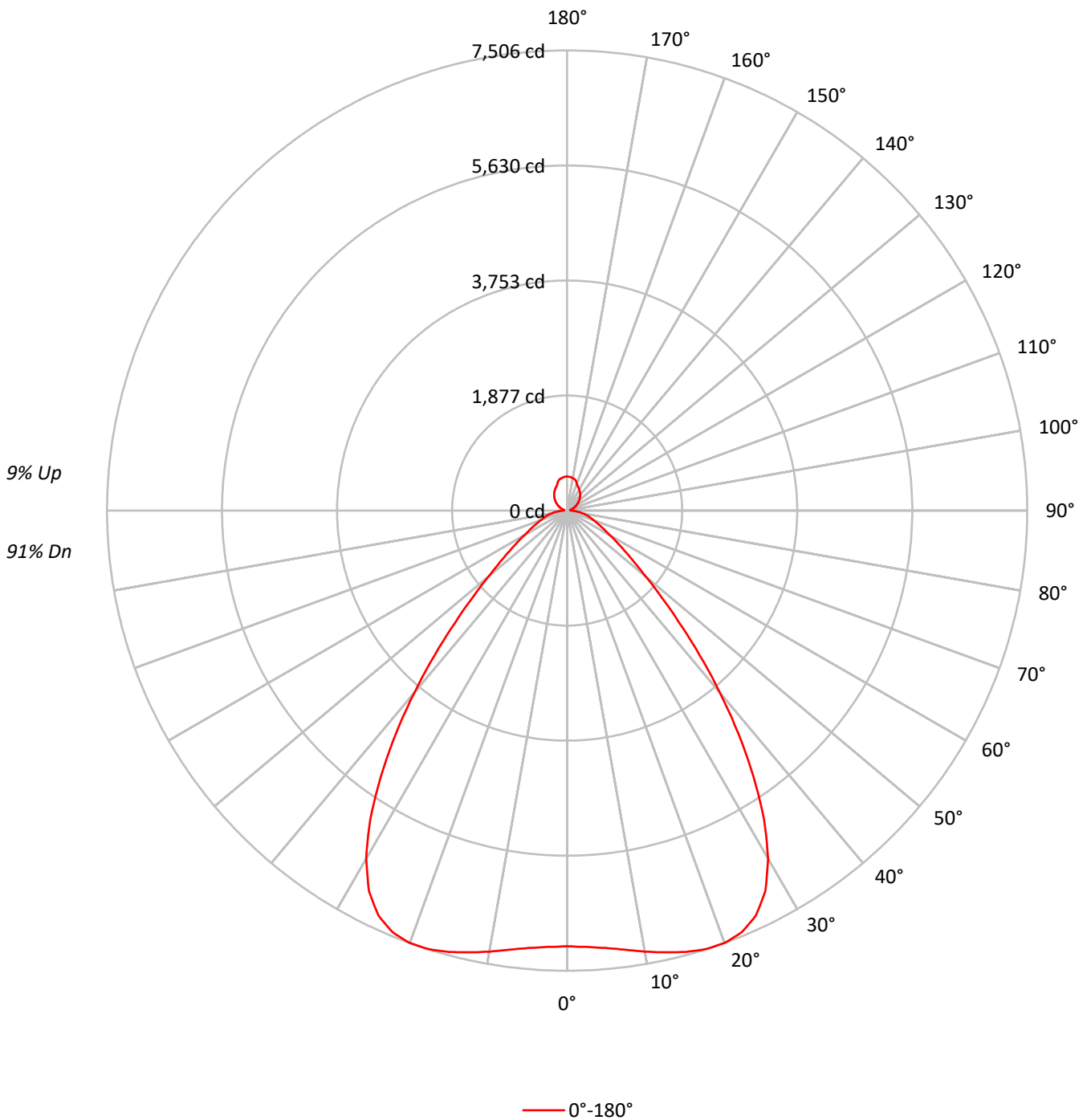
Input Watts (W): 133.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	48988
5°	49550
10°	51137
15°	53190
20°	55063
25°	55428
30°	52188
35°	44587
40°	34890
45°	25168
50°	17934
55°	13698
60°	11202
65°	9846
70°	9233
75°	9514
80°	10171
85°	10955



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	688.2	4.6
10°-20°	2110.8	14.1
20°-30°	3315.6	22.2
30°-40°	3277.1	21.9
40°-50°	2034.5	13.6
50°-60°	1050.8	7.0
60°-70°	608.4	4.1
70°-80°	376.7	2.5
80°-90°	166.1	1.1
90°-100°	59.5	0.4
100°-110°	78.0	0.5
110°-120°	138.6	0.9
120°-130°	192.6	1.3
130°-140°	225.9	1.5
140°-150°	227.5	1.5
150°-160°	196.5	1.3
160°-170°	143.5	1.0
170°-180°	52.0	0.3
0°-30°	6114.5	40.9
0°-40°	9391.7	62.9
0°-60°	12476.9	83.5
0°-90°	13628.1	91.2
90°-120°	276.1	1.8
90°-150°	922.1	6.2
90°-180°	1314.0	8.8
0°-180°	14942.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7106	
5°	7161	688
15°	7453	2111
25°	7287	3316
35°	5298	3277
45°	2582	2034
55°	1140	1051
65°	604	608
75°	357	377
85°	138	142
90°	74	41
95°	51	43
105°	70	78
115°	141	139
125°	215	193
135°	293	226
145°	364	228
155°	425	197
165°	517	144
175°	551	52
180°	554	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7106.3
2.5°	7124.4
5°	7160.6
7.5°	7222.6
10°	7305.4
12.5°	7379.9
15°	7453.0
17.5°	7502.4
20°	7505.9
22.5°	7444.0
25°	7287.3
27.5°	6998.4
30°	6556.3
32.5°	5977.0
35°	5298.2
37.5°	4586.7
40°	3877.2
42.5°	3197.7
45°	2581.6
47.5°	2075.4
50°	1672.3
52.5°	1373.6
55°	1139.7
57.5°	961.5
60°	812.5
62.5°	696.2
65°	603.6
67.5°	525.6
70°	458.1
72.5°	405.2
75°	357.2
77.5°	307.7
80°	256.2
82.5°	203.3
85°	138.5
87.5°	103.0
90°	73.8
92.5°	48.0
95°	50.8
97.5°	53.6
100°	57.8
102.5°	63.4
105°	70.3
107.5°	82.2
110°	101.6



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	121.8
115°	140.6
117.5°	158.7
120°	176.8
122.5°	196.3
125°	215.1
127.5°	234.6
130°	254.8
132.5°	274.3
135°	293.1
137.5°	311.2
140°	329.3
142.5°	347.4
145°	364.1
147.5°	380.1
150°	395.5
152.5°	409.4
155°	424.7
157.5°	442.1
160°	464.4
162.5°	494.3
165°	517.3
167.5°	527.7
170°	535.4
172.5°	543.7
175°	550.7
177.5°	553.5
180°	554.2

(END OF REPORT)