

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: P219316

Luminaire Tested: **SSLED-LD5-15-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: P219316
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-LD5-15-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: 13262.6 lumens
Efficiency: N/A
Efficacy: 119.8 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

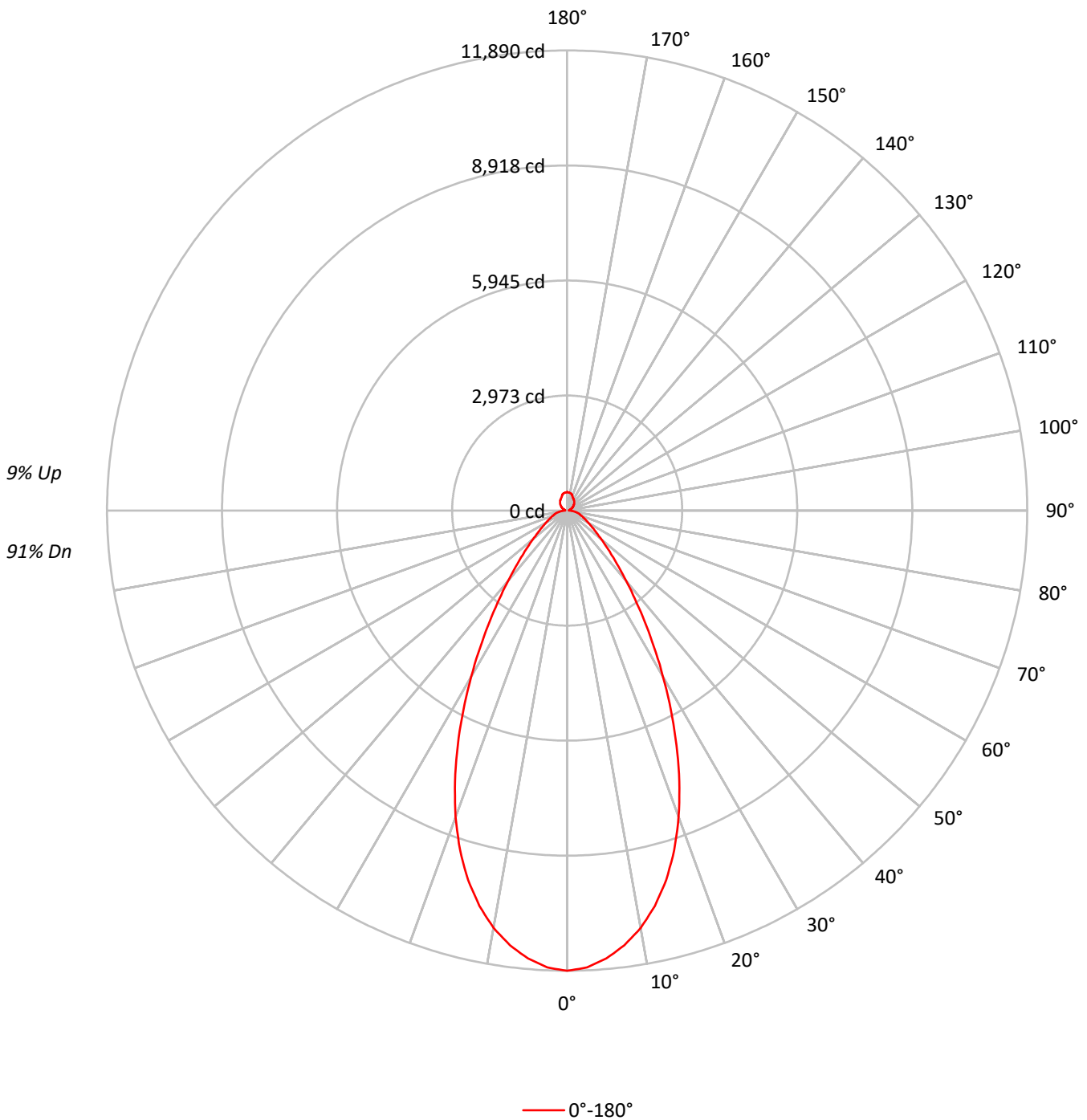
Input Watts (W): 110.74
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	81961
5°	80374
10°	76636
15°	70526
20°	61796
25°	50847
30°	39424
35°	29235
40°	21292
45°	15905
50°	12283
55°	10047
60°	8774
65°	8086
70°	7933
75°	8475
80°	9337
85°	10527



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1087.7	8.2
10°-20°	2743.6	20.7
20°-30°	3047.4	23.0
30°-40°	2194.5	16.5
40°-50°	1286.3	9.7
50°-60°	763.9	5.8
60°-70°	497.8	3.8
70°-80°	334.3	2.5
80°-90°	157.6	1.2
90°-100°	55.7	0.4
100°-110°	69.4	0.5
110°-120°	126.2	1.0
120°-130°	171.1	1.3
130°-140°	197.6	1.5
140°-150°	195.5	1.5
150°-160°	167.1	1.3
160°-170°	122.3	0.9
170°-180°	44.5	0.3
0°-30°	6878.8	51.9
0°-40°	9073.3	68.4
0°-60°	11123.5	83.9
0°-90°	12113.1	91.3
90°-120°	251.3	1.9
90°-150°	815.5	6.1
90°-180°	1149.0	8.7
0°-180°	13262.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11890	
5°	11615	###
15°	9882	2744
25°	6685	3047
35°	3474	2195
45°	1632	1286
55°	836	764
65°	496	498
75°	318	334
85°	133	134
90°	72	40
95°	47	39
105°	62	69
115°	129	126
125°	191	171
135°	256	198
145°	312	195
155°	361	167
165°	441	122
175°	471	45
180°	476	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11889.5
2.5°	11815.9
5°	11615.0
7.5°	11326.6
10°	10948.2
12.5°	10462.1
15°	9882.1
17.5°	9199.5
20°	8423.7
22.5°	7573.7
25°	6685.0
27.5°	5798.3
30°	4952.8
32.5°	4173.8
35°	3474.0
37.5°	2868.7
40°	2366.1
42.5°	1958.5
45°	1631.5
47.5°	1364.0
50°	1145.3
52.5°	971.7
55°	836.0
57.5°	726.4
60°	636.4
62.5°	560.3
65°	495.7
67.5°	441.1
70°	393.6
72.5°	354.9
75°	318.2
77.5°	278.9
80°	235.2
82.5°	190.8
85°	133.1
87.5°	100.8
90°	72.3
92.5°	46.3
95°	46.9
97.5°	48.8
100°	52.0
102.5°	55.8
105°	62.1
107.5°	73.5
110°	91.3



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	111.6
115°	128.7
117.5°	144.5
120°	159.7
122.5°	174.9
125°	190.8
127.5°	207.3
130°	225.0
132.5°	240.9
135°	256.1
137.5°	271.3
140°	285.9
142.5°	299.8
145°	312.5
147.5°	325.2
150°	336.6
152.5°	348.0
155°	360.7
157.5°	375.9
160°	395.5
162.5°	420.9
165°	441.1
167.5°	450.0
170°	457.6
172.5°	464.6
175°	470.9
177.5°	474.1
180°	476.0

(END OF REPORT)