

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: P219317

Luminaire Tested: **SSLED-LD5-15-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: P219317
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-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: 13681.9 lumens
Efficiency: N/A
Efficacy: 123.5 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

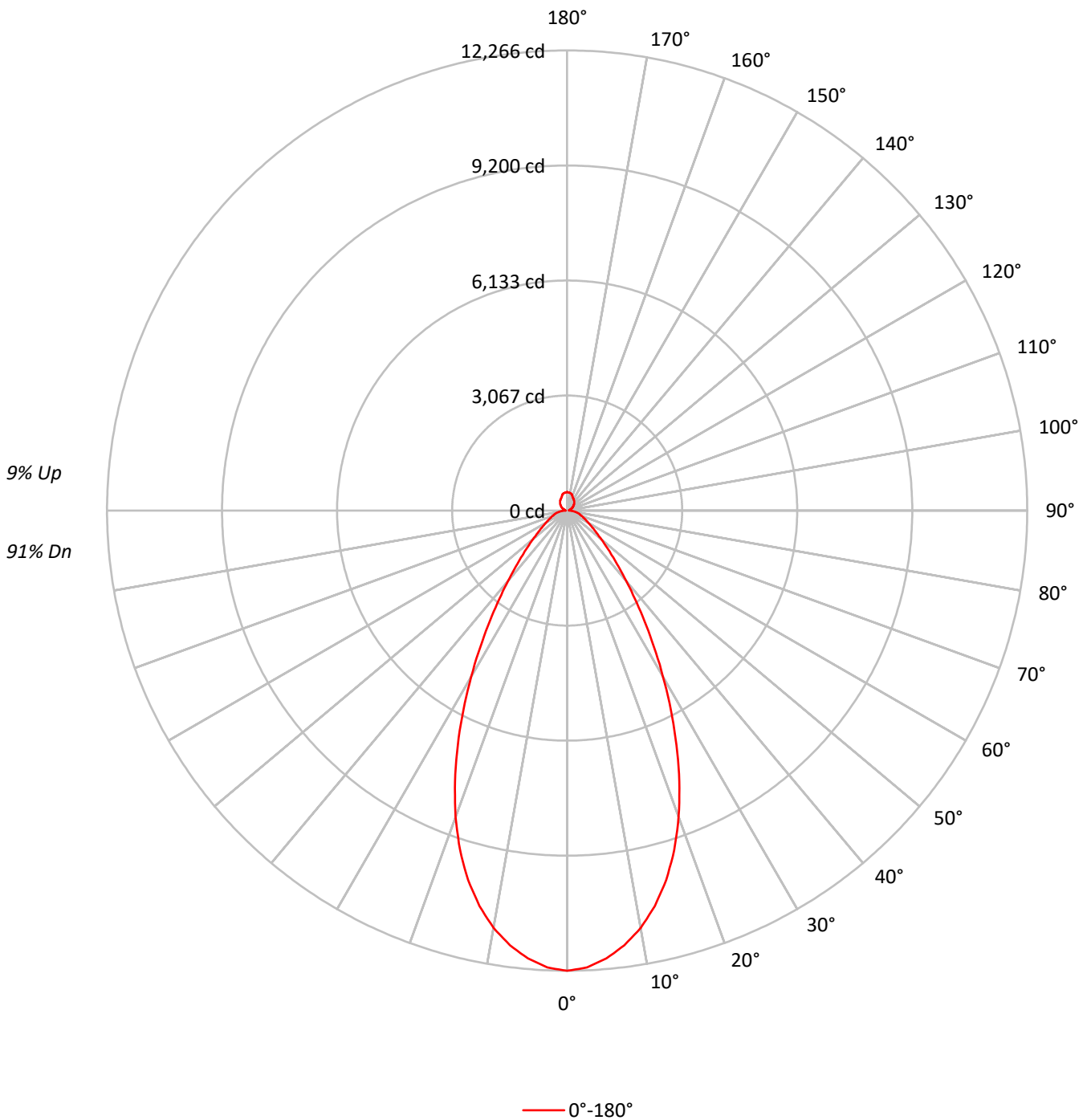
Input Watts (W): 110.74
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	84553
5°	82916
10°	79060
15°	72756
20°	63750
25°	52456
30°	40671
35°	30160
40°	21965
45°	16408
50°	12672
55°	10366
60°	9051
65°	8340
70°	8185
75°	8741
80°	9631
85°	10860



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1122.1	8.2
10°-20°	2830.4	20.7
20°-30°	3143.8	23.0
30°-40°	2263.9	16.5
40°-50°	1327.0	9.7
50°-60°	788.0	5.8
60°-70°	513.5	3.8
70°-80°	344.9	2.5
80°-90°	162.5	1.2
90°-100°	57.4	0.4
100°-110°	71.6	0.5
110°-120°	130.2	1.0
120°-130°	176.5	1.3
130°-140°	203.8	1.5
140°-150°	201.7	1.5
150°-160°	172.4	1.3
160°-170°	126.2	0.9
170°-180°	45.9	0.3
0°-30°	7096.3	51.9
0°-40°	9360.3	68.4
0°-60°	11475.3	83.9
0°-90°	12496.2	91.3
90°-120°	259.2	1.9
90°-150°	841.2	6.1
90°-180°	1186.0	8.7
0°-180°	13681.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12266	
5°	11982	###
15°	10195	2830
25°	6896	3144
35°	3584	2264
45°	1683	1327
55°	862	788
65°	511	514
75°	328	345
85°	137	138
90°	74	41
95°	48	41
105°	64	72
115°	133	130
125°	197	177
135°	264	204
145°	322	202
155°	372	172
165°	455	126
175°	486	46
180°	491	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12265.5
2.5°	12189.6
5°	11982.3
7.5°	11684.8
10°	11294.5
12.5°	10792.9
15°	10194.6
17.5°	9490.4
20°	8690.1
22.5°	7813.2
25°	6896.5
27.5°	5981.7
30°	5109.4
32.5°	4305.8
35°	3583.9
37.5°	2959.5
40°	2440.9
42.5°	2020.5
45°	1683.1
47.5°	1407.1
50°	1181.6
52.5°	1002.4
55°	862.5
57.5°	749.3
60°	656.5
62.5°	578.0
65°	511.3
67.5°	455.1
70°	406.1
72.5°	366.2
75°	328.2
77.5°	287.7
80°	242.6
82.5°	196.8
85°	137.3
87.5°	104.0
90°	74.5
92.5°	47.7
95°	48.4
97.5°	50.3
100°	53.6
102.5°	57.5
105°	64.1
107.5°	75.9
110°	94.2



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	115.1
115°	132.7
117.5°	149.1
120°	164.8
122.5°	180.5
125°	196.8
127.5°	213.8
130°	232.1
132.5°	248.5
135°	264.2
137.5°	279.9
140°	294.9
142.5°	309.3
145°	322.4
147.5°	335.4
150°	347.2
152.5°	359.0
155°	372.1
157.5°	387.8
160°	408.0
162.5°	434.2
165°	455.1
167.5°	464.3
170°	472.1
172.5°	479.3
175°	485.8
177.5°	489.1
180°	491.1

(END OF REPORT)