

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: P219329

Luminaire Tested: **SSLED-LD5-36-N-UNV-L850-CD2-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: P219329
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-LD5-36-N-UNV-L850-CD2-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: 31798.2 lumens
Efficiency: N/A
Efficacy: 95.3 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

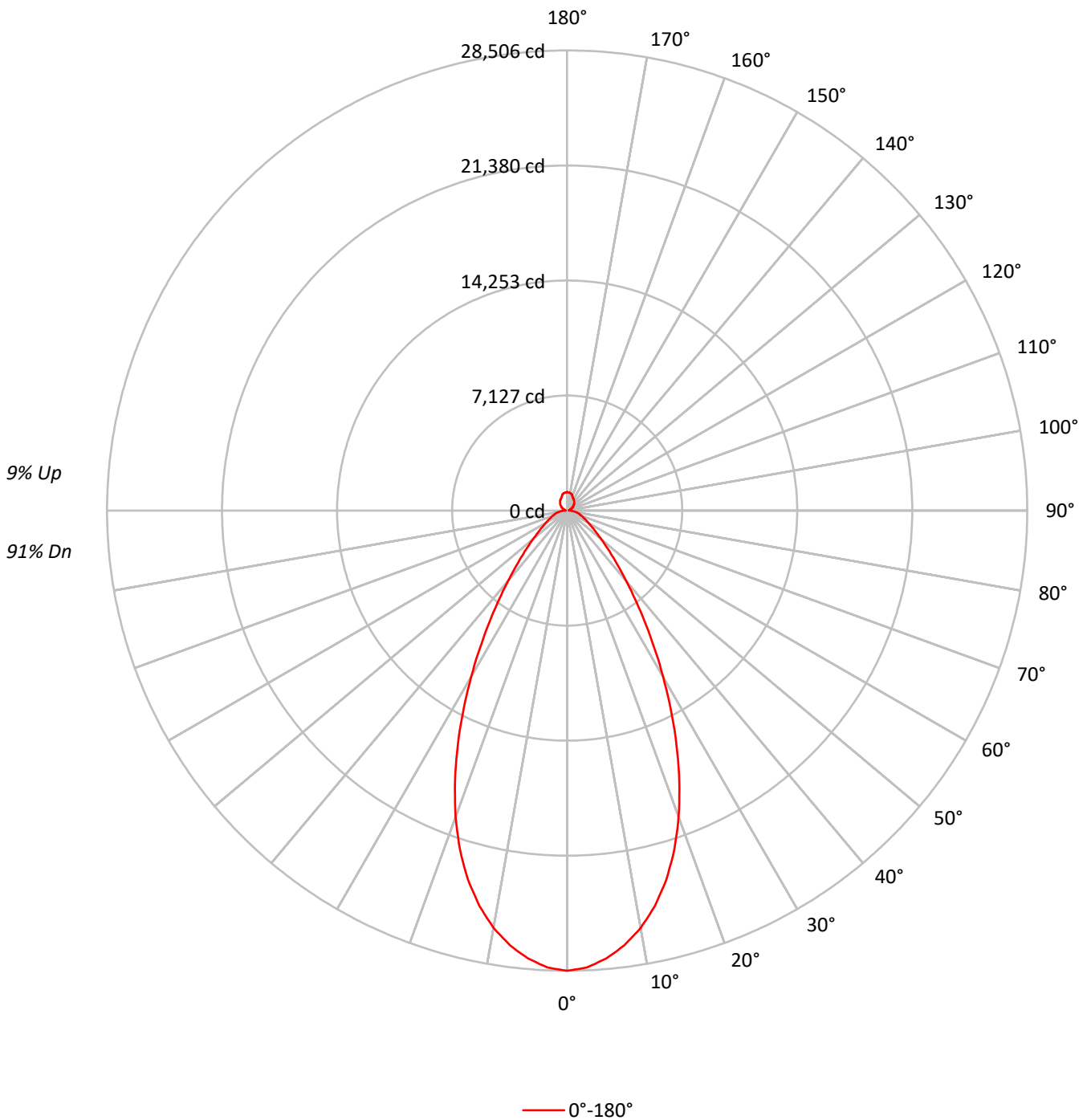
Input Watts (W): 333.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	196509
5°	192706
10°	183743
15°	169093
20°	148161
25°	121913
30°	94523
35°	70096
40°	51051
45°	38135
50°	29450
55°	24091
60°	21036
65°	19385
70°	19021
75°	20320
80°	22382
85°	25239



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2607.9	8.2
10°-20°	6578.2	20.7
20°-30°	7306.5	23.0
30°-40°	5261.6	16.5
40°-50°	3084.1	9.7
50°-60°	1831.5	5.8
60°-70°	1193.5	3.8
70°-80°	801.6	2.5
80°-90°	377.7	1.2
90°-100°	133.5	0.4
100°-110°	166.4	0.5
110°-120°	302.6	1.0
120°-130°	410.2	1.3
130°-140°	473.6	1.5
140°-150°	468.7	1.5
150°-160°	400.6	1.3
160°-170°	293.3	0.9
170°-180°	106.7	0.3
0°-30°	16492.6	51.9
0°-40°	21754.3	68.4
0°-60°	26669.8	83.9
0°-90°	29042.6	91.3
90°-120°	602.5	1.9
90°-150°	1955.0	6.1
90°-180°	2756.0	8.7
0°-180°	31798.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	28506	
5°	27848	###
15°	23693	6578
25°	16028	7307
35°	8329	5262
45°	3912	3084
55°	2004	1831
65°	1188	1193
75°	763	802
85°	319	321
90°	173	96
95°	112	95
105°	149	166
115°	308	303
125°	457	410
135°	614	474
145°	749	469
155°	865	401
165°	1058	293
175°	1129	107
180°	1141	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	28506.2
2.5°	28329.9
5°	27848.2
7.5°	27156.7
10°	26249.5
12.5°	25083.9
15°	23693.4
17.5°	22056.7
20°	20196.6
22.5°	18158.7
25°	16028.1
27.5°	13902.1
30°	11874.8
32.5°	10007.1
35°	8329.4
37.5°	6878.1
40°	5673.0
42.5°	4695.8
45°	3911.7
47.5°	3270.4
50°	2746.1
52.5°	2329.7
55°	2004.5
57.5°	1741.6
60°	1525.8
62.5°	1343.4
65°	1188.4
67.5°	1057.7
70°	943.7
72.5°	851.0
75°	762.9
77.5°	668.7
80°	563.8
82.5°	457.4
85°	319.1
87.5°	241.6
90°	173.2
92.5°	110.9
95°	112.5
97.5°	117.0
100°	124.6
102.5°	133.7
105°	148.9
107.5°	176.3
110°	218.8



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	267.5
115°	308.5
117.5°	346.5
120°	383.0
122.5°	419.4
125°	457.4
127.5°	496.9
130°	539.5
132.5°	577.5
135°	614.0
137.5°	650.4
140°	685.4
142.5°	718.8
145°	749.2
147.5°	779.6
150°	807.0
152.5°	834.3
155°	864.7
157.5°	901.2
160°	948.3
162.5°	1009.1
165°	1057.7
167.5°	1079.0
170°	1097.2
172.5°	1113.9
175°	1129.1
177.5°	1136.7
180°	1141.3

(END OF REPORT)