

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: P219314

Luminaire Tested: **SSLED-LD5-12-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: P219314
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-LD5-12-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: 11037.2 lumens
Efficiency: N/A
Efficacy: 129.4 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

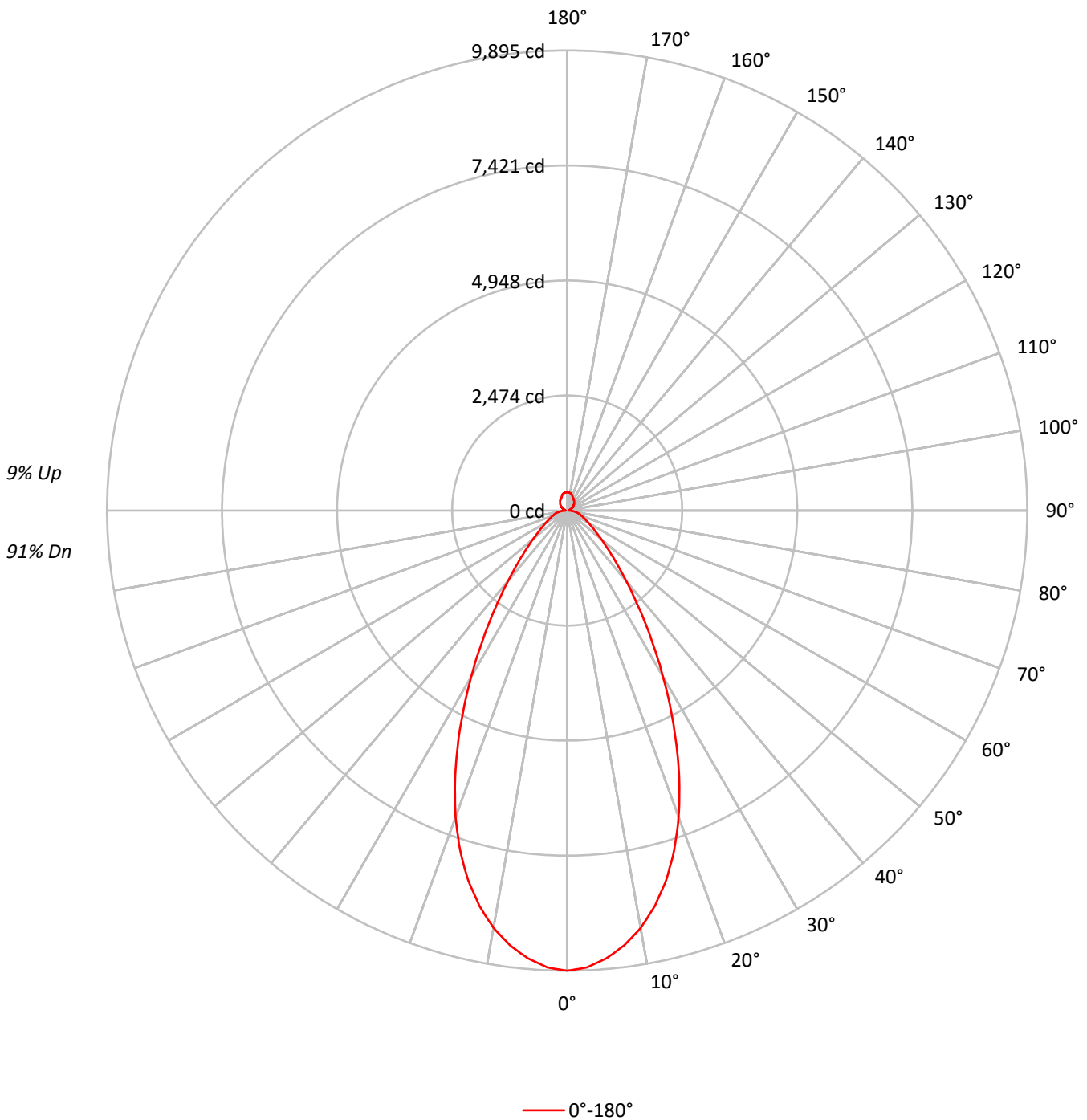
Input Watts (W): 85.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	68209
5°	66889
10°	63777
15°	58692
20°	51427
25°	42316
30°	32809
35°	24330
40°	17720
45°	13236
50°	10223
55°	8362
60°	7302
65°	6728
70°	6603
75°	7053
80°	7769
85°	8764



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.2	8.2
10°-20°	2283.3	20.7
20°-30°	2536.1	23.0
30°-40°	1826.3	16.5
40°-50°	1070.5	9.7
50°-60°	635.7	5.8
60°-70°	414.3	3.8
70°-80°	278.2	2.5
80°-90°	131.1	1.2
90°-100°	46.3	0.4
100°-110°	57.8	0.5
110°-120°	105.0	1.0
120°-130°	142.4	1.3
130°-140°	164.4	1.5
140°-150°	162.7	1.5
150°-160°	139.0	1.3
160°-170°	101.8	0.9
170°-180°	37.0	0.3
0°-30°	5724.6	51.9
0°-40°	7550.9	68.4
0°-60°	9257.1	83.9
0°-90°	10080.7	91.3
90°-120°	209.1	1.9
90°-150°	678.6	6.1
90°-180°	956.0	8.7
0°-180°	11037.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9895	
5°	9666	905
15°	8224	2283
25°	5563	2536
35°	2891	1826
45°	1358	1070
55°	696	636
65°	412	414
75°	265	278
85°	111	111
90°	60	33
95°	39	33
105°	52	58
115°	107	105
125°	159	142
135°	213	164
145°	260	163
155°	300	139
165°	367	102
175°	392	37
180°	396	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9894.6
2.5°	9833.4
5°	9666.2
7.5°	9426.1
10°	9111.2
12.5°	8706.7
15°	8224.0
17.5°	7655.9
20°	7010.3
22.5°	6302.9
25°	5563.4
27.5°	4825.4
30°	4121.8
32.5°	3473.5
35°	2891.1
37.5°	2387.4
40°	1969.1
42.5°	1629.9
45°	1357.7
47.5°	1135.1
50°	953.2
52.5°	808.6
55°	695.8
57.5°	604.5
60°	529.6
62.5°	466.3
65°	412.5
67.5°	367.1
70°	327.6
72.5°	295.4
75°	264.8
77.5°	232.1
80°	195.7
82.5°	158.8
85°	110.8
87.5°	83.9
90°	60.1
92.5°	38.5
95°	39.0
97.5°	40.6
100°	43.3
102.5°	46.4
105°	51.7
107.5°	61.2
110°	76.0



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	92.8
115°	107.1
117.5°	120.3
120°	132.9
122.5°	145.6
125°	158.8
127.5°	172.5
130°	187.3
132.5°	200.4
135°	213.1
137.5°	225.8
140°	237.9
142.5°	249.5
145°	260.0
147.5°	270.6
150°	280.1
152.5°	289.6
155°	300.1
157.5°	312.8
160°	329.2
162.5°	350.2
165°	367.1
167.5°	374.5
170°	380.8
172.5°	386.6
175°	391.9
177.5°	394.6
180°	396.1

(END OF REPORT)