

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: P219379

Luminaire Tested: **SSLED-LD5-15-M-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: P219379
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-LD5-15-M-UNV-L840-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) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13603.4 lumens
Efficiency: N/A
Efficacy: 122.8 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

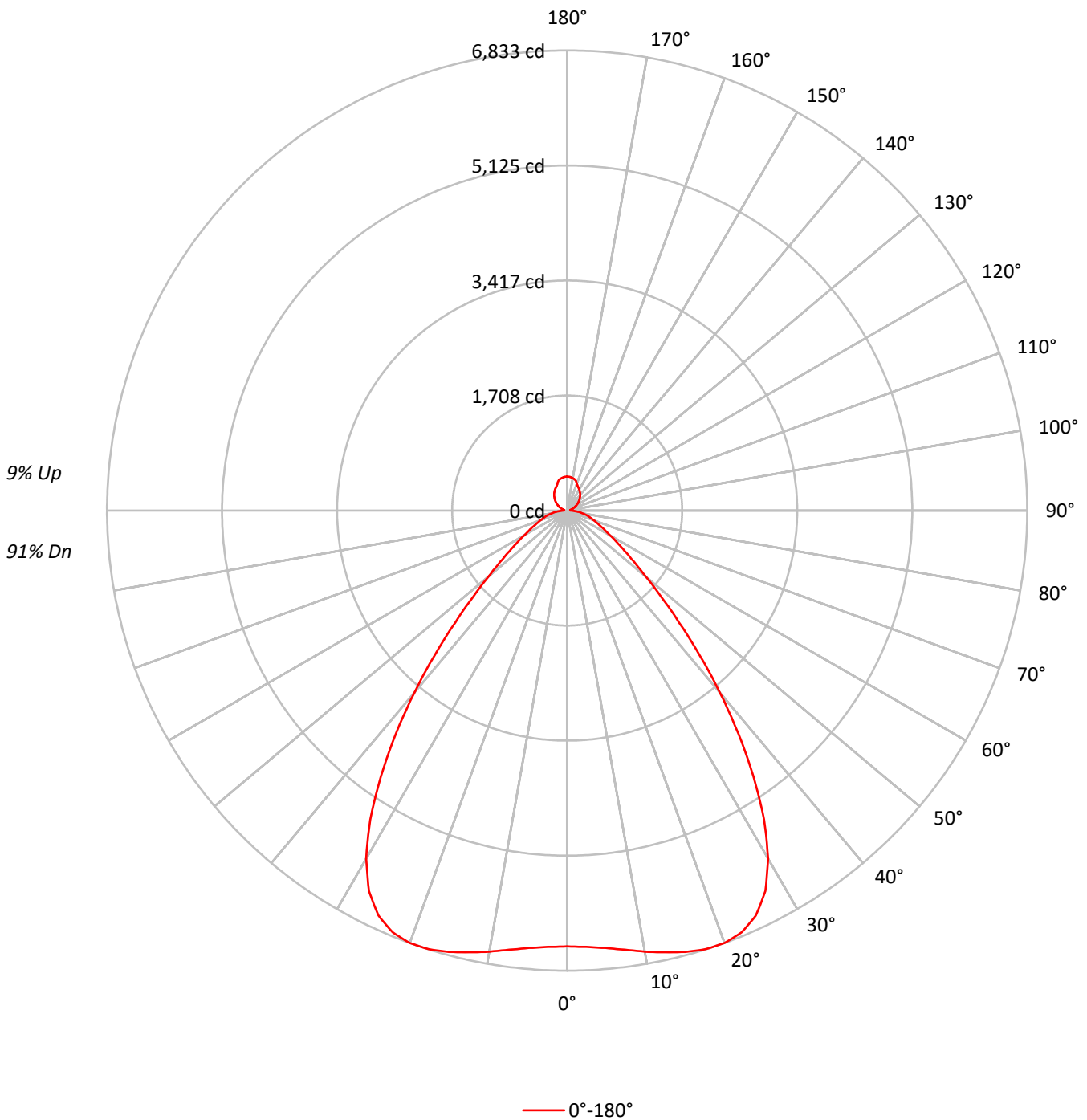
Input Watts (W): 110.74
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	44598
5°	45110
10°	46555
15°	48424
20°	50129
25°	50462
30°	47511
35°	40591
40°	31764
45°	22912
50°	16328
55°	12470
60°	10198
65°	8963
70°	8407
75°	8662
80°	9258
85°	9974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.5	4.6
10°-20°	1921.7	14.1
20°-30°	3018.5	22.2
30°-40°	2983.5	21.9
40°-50°	1852.2	13.6
50°-60°	956.6	7.0
60°-70°	553.9	4.1
70°-80°	343.0	2.5
80°-90°	151.2	1.1
90°-100°	54.2	0.4
100°-110°	71.0	0.5
110°-120°	126.2	0.9
120°-130°	175.4	1.3
130°-140°	205.6	1.5
140°-150°	207.2	1.5
150°-160°	178.9	1.3
160°-170°	130.6	1.0
170°-180°	47.4	0.3
0°-30°	5566.6	40.9
0°-40°	8550.1	62.9
0°-60°	11358.9	83.5
0°-90°	12406.9	91.2
90°-120°	251.4	1.8
90°-150°	839.6	6.2
90°-180°	1196.0	8.8
0°-180°	13603.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6470	
5°	6519	626
15°	6785	1922
25°	6634	3018
35°	4823	2983
45°	2350	1852
55°	1038	957
65°	550	554
75°	325	343
85°	126	129
90°	67	37
95°	46	39
105°	64	71
115°	128	126
125°	196	175
135°	267	206
145°	332	207
155°	387	179
165°	471	131
175°	501	47
180°	504	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6469.5
2.5°	6486.0
5°	6518.9
7.5°	6575.4
10°	6650.8
12.5°	6718.6
15°	6785.2
17.5°	6830.2
20°	6833.3
22.5°	6776.9
25°	6634.3
27.5°	6371.3
30°	5968.8
32.5°	5441.4
35°	4823.4
37.5°	4175.7
40°	3529.8
42.5°	2911.2
45°	2350.2
47.5°	1889.4
50°	1522.5
52.5°	1250.5
55°	1037.6
57.5°	875.3
60°	739.7
62.5°	633.8
65°	549.5
67.5°	478.5
70°	417.1
72.5°	368.9
75°	325.2
77.5°	280.2
80°	233.2
82.5°	185.1
85°	126.1
87.5°	93.8
90°	67.2
92.5°	43.7
95°	46.3
97.5°	48.8
100°	52.6
102.5°	57.7
105°	64.0
107.5°	74.8
110°	92.5



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	110.9
115°	128.0
117.5°	144.5
120°	161.0
122.5°	178.7
125°	195.9
127.5°	213.6
130°	232.0
132.5°	249.7
135°	266.8
137.5°	283.3
140°	299.8
142.5°	316.3
145°	331.5
147.5°	346.1
150°	360.0
152.5°	372.7
155°	386.6
157.5°	402.5
160°	422.8
162.5°	450.0
165°	470.9
167.5°	480.4
170°	487.4
172.5°	495.0
175°	501.4
177.5°	503.9
180°	504.5

(END OF REPORT)