

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: P219391

Luminaire Tested: **SSLED-LD5-36-M-UNV-L840-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: P219391
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-LD5-36-M-UNV-L840-CD2-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: 31615.9 lumens
Efficiency: N/A
Efficacy: 94.7 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

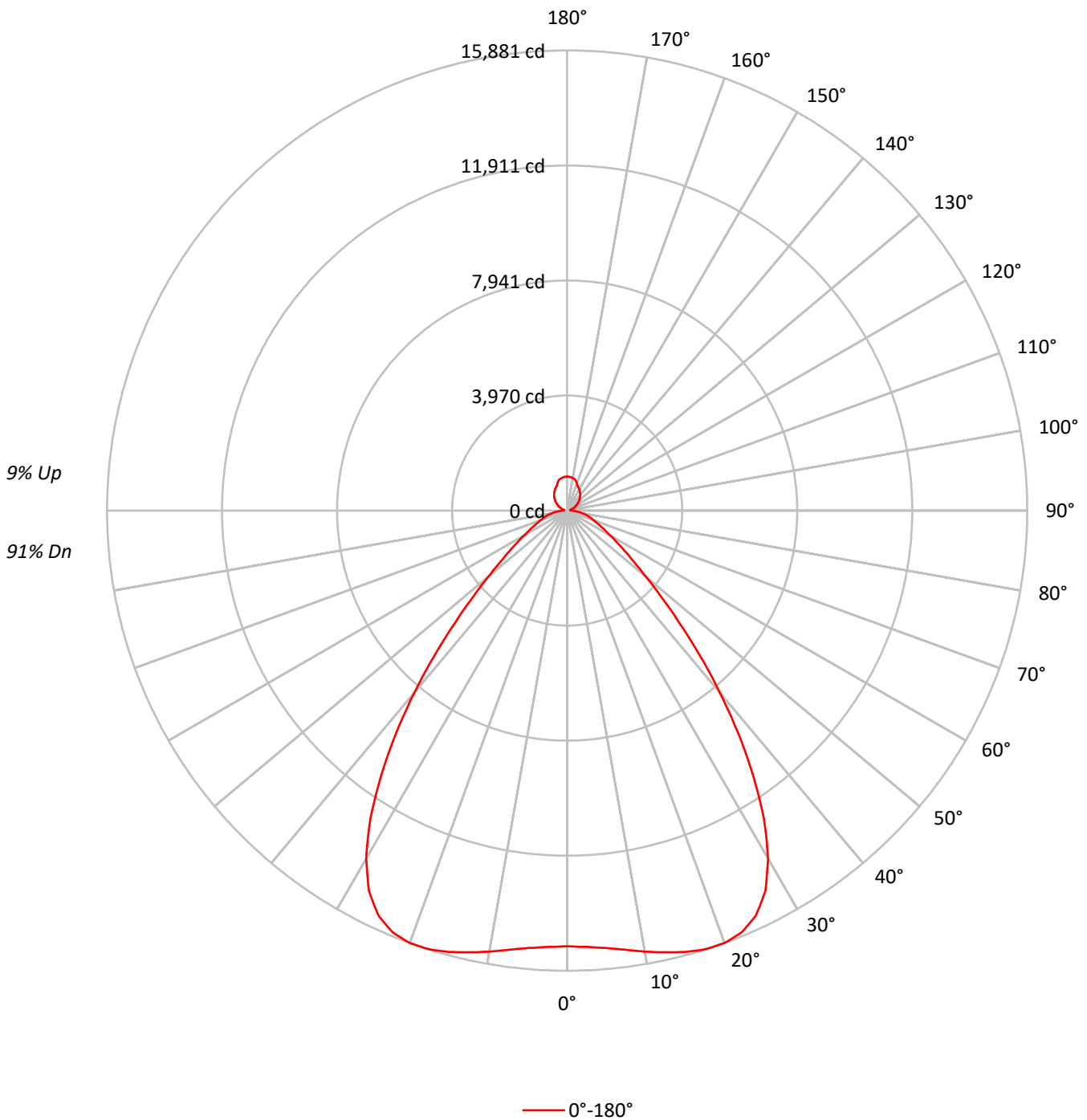
Input Watts (W): 333.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	103650
5°	104841
10°	108198
15°	112542
20°	116504
25°	117278
30°	110421
35°	94339
40°	73823
45°	53251
50°	37947
55°	28981
60°	23701
65°	20833
70°	19537
75°	20128
80°	21520
85°	23183



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1456.0	4.6
10°-20°	4466.1	14.1
20°-30°	7015.2	22.2
30°-40°	6933.9	21.9
40°-50°	4304.7	13.6
50°-60°	2223.2	7.0
60°-70°	1287.4	4.1
70°-80°	797.0	2.5
80°-90°	351.4	1.1
90°-100°	125.9	0.4
100°-110°	165.1	0.5
110°-120°	293.3	0.9
120°-130°	407.6	1.3
130°-140°	477.9	1.5
140°-150°	481.5	1.5
150°-160°	415.8	1.3
160°-170°	303.6	1.0
170°-180°	110.1	0.3
0°-30°	12937.4	40.9
0°-40°	19871.2	62.9
0°-60°	26399.2	83.5
0°-90°	28835.0	91.2
90°-120°	584.3	1.8
90°-150°	1951.3	6.2
90°-180°	2781.0	8.8
0°-180°	31615.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15036	
5°	15151	###
15°	15769	4466
25°	15419	7015
35°	11210	6934
45°	5462	4305
55°	2411	2223
65°	1277	1287
75°	756	797
85°	293	300
90°	156	87
95°	108	91
105°	149	165
115°	298	293
125°	455	408
135°	620	478
145°	770	481
155°	899	416
165°	1094	304
175°	1165	110
180°	1173	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15035.8
2.5°	15074.1
5°	15150.7
7.5°	15281.8
10°	15457.1
12.5°	15614.7
15°	15769.4
17.5°	15874.0
20°	15881.3
22.5°	15750.2
25°	15418.8
27.5°	14807.5
30°	13872.0
32.5°	12646.4
35°	11210.2
37.5°	9704.7
40°	8203.6
42.5°	6765.9
45°	5462.2
47.5°	4391.3
50°	3538.4
52.5°	2906.4
55°	2411.4
57.5°	2034.3
60°	1719.1
62.5°	1473.1
65°	1277.2
67.5°	1112.2
70°	969.3
72.5°	857.3
75°	755.7
77.5°	651.1
80°	542.1
82.5°	430.1
85°	293.1
87.5°	218.0
90°	156.1
92.5°	101.6
95°	107.5
97.5°	113.4
100°	122.3
102.5°	134.1
105°	148.8
107.5°	173.8
110°	215.1



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	257.8
115°	297.6
117.5°	335.9
120°	374.2
122.5°	415.4
125°	455.2
127.5°	496.4
130°	539.1
132.5°	580.4
135°	620.2
137.5°	658.5
140°	696.8
142.5°	735.1
145°	770.4
147.5°	804.3
150°	836.7
152.5°	866.2
155°	898.6
157.5°	935.4
160°	982.5
162.5°	1045.9
165°	1094.5
167.5°	1116.6
170°	1132.8
172.5°	1150.5
175°	1165.2
177.5°	1171.1
180°	1172.6

(END OF REPORT)