

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: P219392

Luminaire Tested: **SSLED-LD5-36-M-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: P219392
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-L850-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) 5000K CCT, 80 CRI LEDS
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32615.7 lumens
Efficiency: N/A
Efficacy: 97.7 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

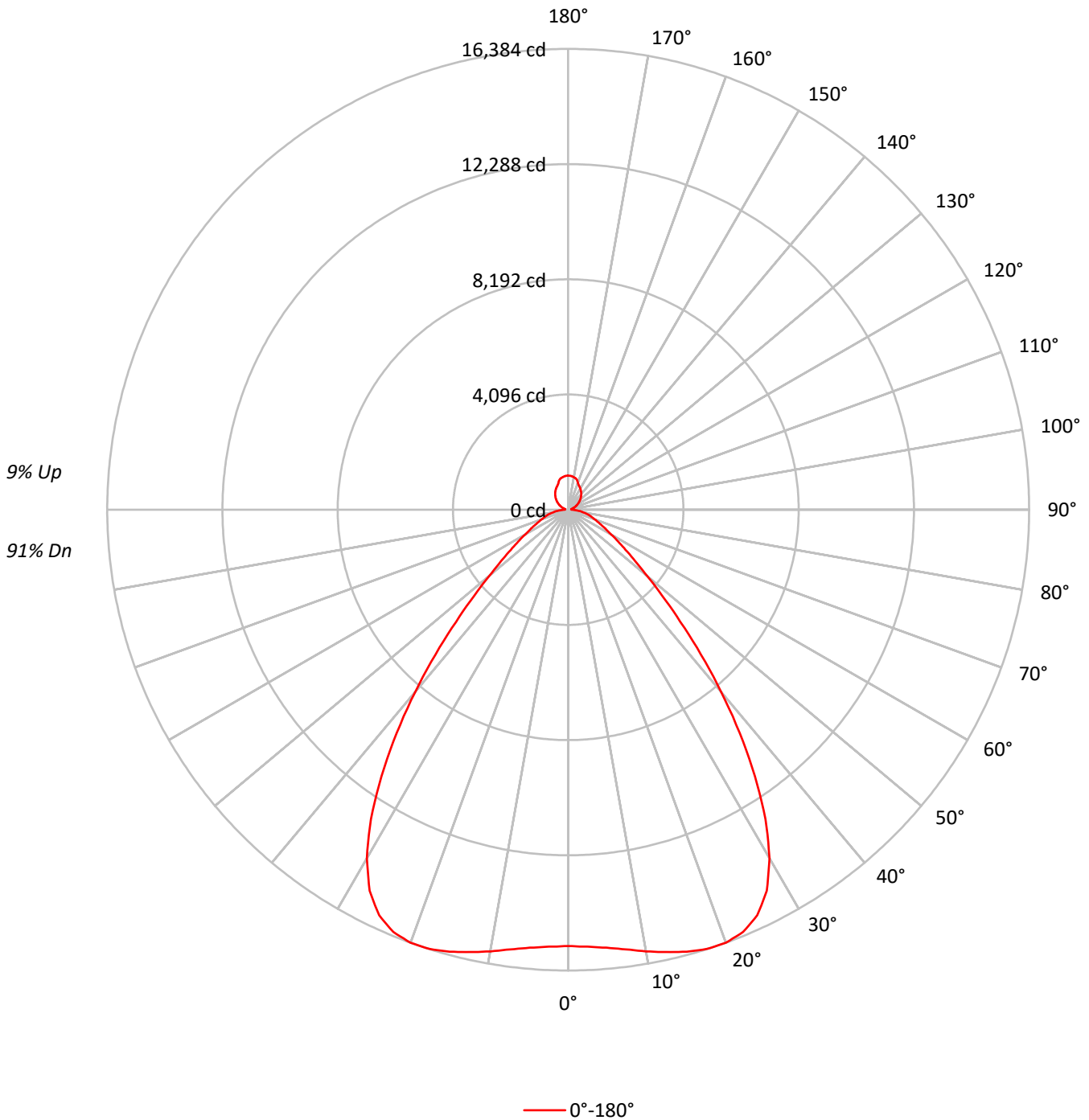
Input Watts (W): 333.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	106928
5°	108156
10°	111619
15°	116101
20°	120189
25°	120987
30°	113914
35°	97322
40°	76158
45°	54934
50°	39147
55°	29898
60°	24451
65°	21492
70°	20153
75°	20764
80°	22199
85°	23918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1502.1	4.6
10°-20°	4607.4	14.1
20°-30°	7237.1	22.2
30°-40°	7153.2	21.9
40°-50°	4440.8	13.6
50°-60°	2293.6	7.0
60°-70°	1328.1	4.1
70°-80°	822.2	2.5
80°-90°	362.5	1.1
90°-100°	130.0	0.4
100°-110°	170.3	0.5
110°-120°	302.6	0.9
120°-130°	420.5	1.3
130°-140°	493.0	1.5
140°-150°	496.7	1.5
150°-160°	428.9	1.3
160°-170°	313.3	1.0
170°-180°	113.6	0.3
0°-30°	13346.5	40.9
0°-40°	20499.7	62.9
0°-60°	27234.1	83.5
0°-90°	29746.9	91.2
90°-120°	602.8	1.8
90°-150°	2013.0	6.2
90°-180°	2869.0	8.8
0°-180°	32615.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	15511	
5°	15630	###
15°	16268	4607
25°	15906	7237
35°	11565	7153
45°	5635	4441
55°	2488	2294
65°	1318	1328
75°	780	822
85°	302	310
90°	161	89
95°	111	94
105°	154	170
115°	307	303
125°	470	421
135°	640	493
145°	795	497
155°	927	429
165°	1129	313
175°	1202	114
180°	1210	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	15511.3
2.5°	15550.8
5°	15629.8
7.5°	15765.1
10°	15945.9
12.5°	16108.5
15°	16268.1
17.5°	16376.0
20°	16383.6
22.5°	16248.3
25°	15906.4
27.5°	15275.8
30°	14310.8
32.5°	13046.4
35°	11564.7
37.5°	10011.6
40°	8463.1
42.5°	6979.9
45°	5634.9
47.5°	4530.1
50°	3650.3
52.5°	2998.3
55°	2487.7
57.5°	2098.7
60°	1773.5
62.5°	1519.7
65°	1317.6
67.5°	1147.4
70°	999.9
72.5°	884.4
75°	779.6
77.5°	671.7
80°	559.2
82.5°	443.7
85°	302.4
87.5°	224.9
90°	161.1
92.5°	104.9
95°	110.9
97.5°	117.0
100°	126.1
102.5°	138.3
105°	153.5
107.5°	179.3
110°	221.9



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	265.9
115°	307.0
117.5°	346.5
120°	386.0
122.5°	428.5
125°	469.6
127.5°	512.1
130°	556.2
132.5°	598.8
135°	639.8
137.5°	679.3
140°	718.8
142.5°	758.3
145°	794.8
147.5°	829.7
150°	863.2
152.5°	893.6
155°	927.0
157.5°	965.0
160°	1013.6
162.5°	1079.0
165°	1129.1
167.5°	1151.9
170°	1168.6
172.5°	1186.9
175°	1202.1
177.5°	1208.1
180°	1209.7

(END OF REPORT)