

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: P219328

Luminaire Tested: **SSLED-LD5-36-N-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: P219328  
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-L840-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) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30823.3 lumens  
Efficiency: N/A  
Efficacy: 92.3 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

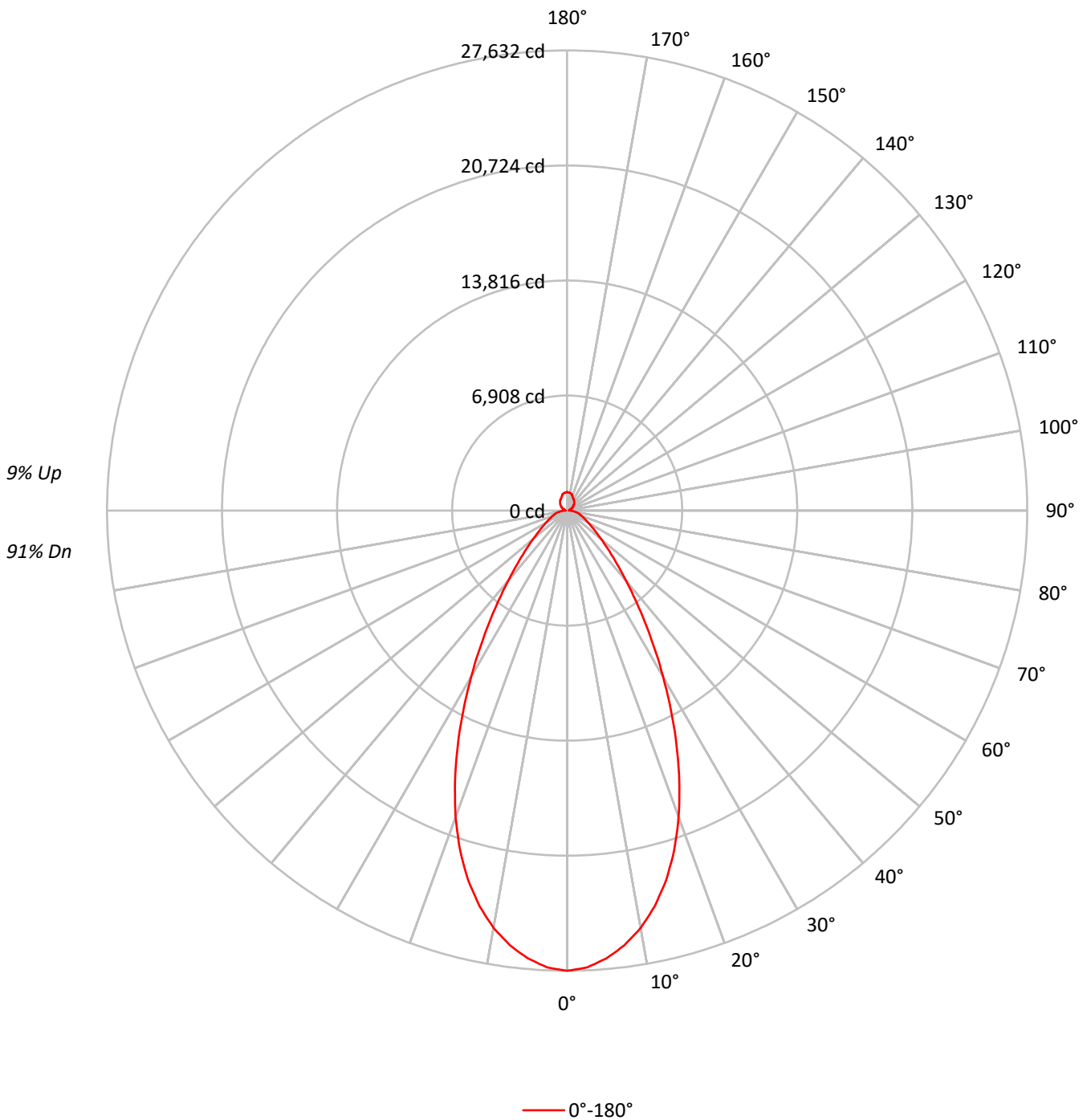
Input Watts (W): 333.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	190484
5°	186798
10°	178110
15°	163909
20°	143619
25°	118175
30°	91626
35°	67946
40°	49486
45°	36965
50°	28547
55°	23352
60°	20391
65°	18791
70°	18438
75°	19696
80°	21695
85°	24464



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2528.0	8.2
10°-20°	6376.5	20.7
20°-30°	7082.5	23.0
30°-40°	5100.3	16.5
40°-50°	2989.5	9.7
50°-60°	1775.3	5.8
60°-70°	1156.9	3.8
70°-80°	777.0	2.5
80°-90°	366.1	1.2
90°-100°	129.4	0.4
100°-110°	161.3	0.5
110°-120°	293.3	1.0
120°-130°	397.7	1.3
130°-140°	459.1	1.5
140°-150°	454.3	1.5
150°-160°	388.3	1.3
160°-170°	284.3	0.9
170°-180°	103.4	0.3
0°-30°	15987.0	51.9
0°-40°	21087.3	68.4
0°-60°	25852.1	83.9
0°-90°	28152.2	91.3
90°-120°	584.0	1.9
90°-150°	1895.1	6.1
90°-180°	2671.0	8.7
0°-180°	30823.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	27632	
5°	26994	###
15°	22967	6377
25°	15537	7083
35°	8074	5100
45°	3792	2989
55°	1943	1775
65°	1152	1157
75°	740	777
85°	309	311
90°	168	93
95°	109	92
105°	144	161
115°	299	293
125°	443	398
135°	595	459
145°	726	454
155°	838	388
165°	1025	284
175°	1094	103
180°	1106	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	27632.3
2.5°	27461.4
5°	26994.4
7.5°	26324.2
10°	25444.7
12.5°	24314.9
15°	22967.0
17.5°	21380.5
20°	19577.4
22.5°	17602.0
25°	15536.7
27.5°	13475.9
30°	11510.8
32.5°	9700.3
35°	8074.0
37.5°	6667.2
40°	5499.1
42.5°	4551.9
45°	3791.7
47.5°	3170.1
50°	2661.9
52.5°	2258.3
55°	1943.0
57.5°	1688.2
60°	1479.0
62.5°	1302.2
65°	1152.0
67.5°	1025.3
70°	914.8
72.5°	824.9
75°	739.5
77.5°	648.2
80°	546.5
82.5°	443.4
85°	309.3
87.5°	234.2
90°	167.9
92.5°	107.5
95°	109.0
97.5°	113.4
100°	120.8
102.5°	129.6
105°	144.4
107.5°	170.9
110°	212.1



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	259.3
115°	299.0
117.5°	335.9
120°	371.2
122.5°	406.6
125°	443.4
127.5°	481.7
130°	522.9
132.5°	559.8
135°	595.1
137.5°	630.5
140°	664.4
142.5°	696.8
145°	726.2
147.5°	755.7
150°	782.2
152.5°	808.7
155°	838.2
157.5°	873.5
160°	919.2
162.5°	978.1
165°	1025.3
167.5°	1045.9
170°	1063.6
172.5°	1079.8
175°	1094.5
177.5°	1101.9
180°	1106.3

(END OF REPORT)