

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: P219350

Luminaire Tested: **SSLED-LD5-36-N-UNV-L850-CD2-SA23-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: P219350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27261)  
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-L850-CD2-SA23-U  
Description: METALUX ROUND HIGH BAY STEELER LED WITH NARROW DISTRIBUTION LENS WITH Rev.G BOARD. LENS DIFFUSE 2407, 7.5% BLEND. SHROUD 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: 34814.7 lumens  
Efficiency: N/A  
Efficacy: 104.3 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.86  
Luminous Opening: Circular (Dia: 1.41' x H: 0')  
CIE Type: Direct

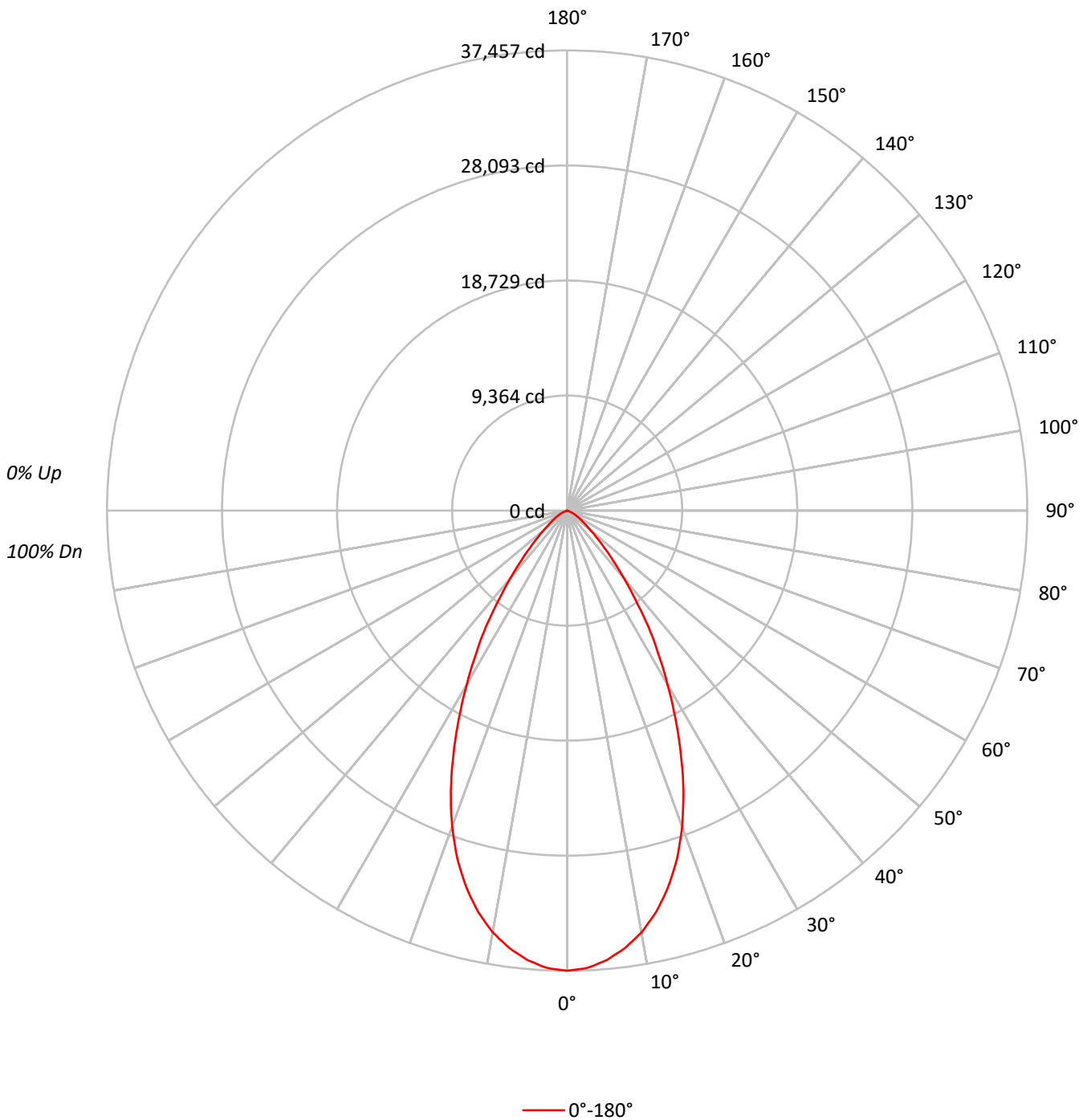
Input Watts (W): 333.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P219350

CATALOG NUMBER: SSLED-LD5-36-N-UNV-L850-CD2-SA23-U

### Luminous Intensity Polar Plot





TEST NUMBER: P219350

CATALOG NUMBER: SSLED-LD5-36-N-UNV-L850-CD2-SA23-U

**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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	107	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	97	94	105	100	96	93	97	93	91		94	91	89		91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	82		88	84	81		85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76		82	78	75		80	77	74	72
5	90	81	75	70	89	80	74	70	78	73	69		77	72	69		75	71	68	67
6	85	76	69	65	84	75	69	65	74	68	64		72	67	64		71	67	63	62
7	81	71	65	60	79	70	64	60	69	64	60		68	63	59		67	62	59	57
8	77	67	60	56	75	66	60	56	65	59	56		64	59	55		63	58	55	54
9	73	63	56	52	72	62	56	52	61	56	52		60	55	52		59	55	52	50
10	69	59	53	49	68	59	53	49	58	52	49		57	52	49		56	52	48	47

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	258209
5°	254169
10°	244045
15°	226561
20°	200745
25°	166575
30°	130086
35°	96733
40°	64452
45°	41720
50°	26924
55°	18319
60°	12717
65°	8131
70°	2235
75°	1457
80°	1449
85°	2041



TEST NUMBER: P219350

CATALOG NUMBER: SSLED-LD5-36-N-UNV-L850-CD2-SA23-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3447.2	9.9
10°-20°	8823.7	25.3
20°-30°	9983.1	28.7
30°-40°	7131.1	20.5
40°-50°	3427.1	9.8
50°-60°	1418.3	4.1
60°-70°	493.8	1.4
70°-80°	63.9	0.2
80°-90°	26.5	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22254.0	63.9
0°-40°	29385.1	84.4
0°-60°	34230.6	98.3
0°-90°	34814.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	34814.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	37457	
5°	36730	###
15°	31746	8824
25°	21900	9983
35°	11495	7131
45°	4279	3427
55°	1524	1418
65°	498	494
75°	55	64
85°	26	26
90°	0	



TEST NUMBER: P219350

CATALOG NUMBER: SSLED-LD5-36-N-UNV-L850-CD2-SA23-U

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	37456.7
2.5°	37272.8
5°	36730.3
7.5°	35929.4
10°	34864.2
12.5°	33461.5
15°	31745.8
17.5°	29715.5
20°	27364.6
22.5°	24747.7
25°	21899.9
27.5°	19076.4
30°	16342.5
32.5°	13813.8
35°	11494.7
37.5°	9070.9
40°	7162.2
42.5°	5566.5
45°	4279.4
47.5°	3271.8
50°	2510.5
52.5°	1949.7
55°	1524.2
57.5°	1192.9
60°	922.4
62.5°	697.5
65°	498.5
67.5°	297.9
70°	110.9
72.5°	69.9
75°	54.7
77.5°	44.1
80°	36.5
82.5°	31.9
85°	25.8
87.5°	21.3
90°	0.0

(END OF REPORT)