

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: P219374

Luminaire Tested: **SSLED-LD5-9-M-UNV-L850-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: P219374  
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-LD5-9-M-UNV-L850-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) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8489.3 lumens  
Efficiency: N/A  
Efficacy: 132.4 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

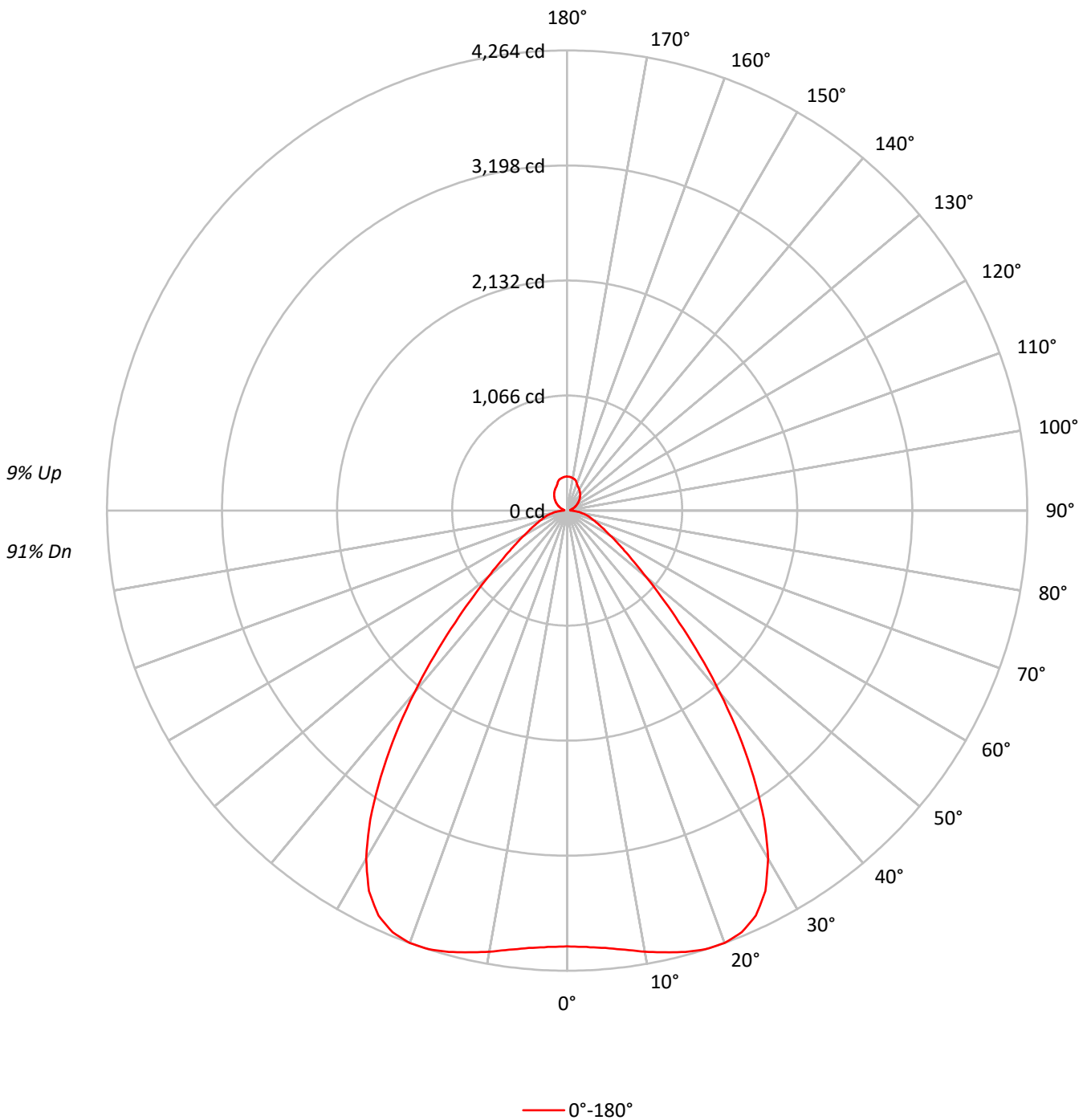
Input Watts (W): 64.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P219374

CATALOG NUMBER: SSLED-LD5-9-M-UNV-L850-CD1-UPL-U

### Luminous Intensity Polar Plot





TEST NUMBER: P219374

CATALOG NUMBER: SSLED-LD5-9-M-UNV-L850-CD1-UPL-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	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°	27832
5°	28151
10°	29053
15°	30219
20°	31283
25°	31491
30°	29650
35°	25331
40°	19823
45°	14299
50°	10189
55°	7782
60°	6364
65°	5593
70°	5246
75°	5404
80°	5780
85°	6225



TEST NUMBER: P219374

CATALOG NUMBER: SSLED-LD5-9-M-UNV-L850-CD1-UPL-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.0	4.6
10°-20°	1199.2	14.1
20°-30°	1883.7	22.2
30°-40°	1861.9	21.9
40°-50°	1155.9	13.6
50°-60°	597.0	7.0
60°-70°	345.7	4.1
70°-80°	214.0	2.5
80°-90°	94.4	1.1
90°-100°	33.8	0.4
100°-110°	44.3	0.5
110°-120°	78.7	0.9
120°-130°	109.4	1.3
130°-140°	128.3	1.5
140°-150°	129.3	1.5
150°-160°	111.6	1.3
160°-170°	81.5	1.0
170°-180°	29.6	0.3
0°-30°	3473.9	40.9
0°-40°	5335.8	62.9
0°-60°	7088.6	83.5
0°-90°	7742.6	91.2
90°-120°	156.9	1.8
90°-150°	524.0	6.2
90°-180°	747.0	8.8
0°-180°	8489.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4037	
5°	4068	391
15°	4234	1199
25°	4140	1884
35°	3010	1862
45°	1467	1156
55°	648	597
65°	343	346
75°	203	214
85°	79	81
90°	42	23
95°	29	24
105°	40	44
115°	80	79
125°	122	109
135°	166	128
145°	207	129
155°	241	112
165°	294	82
175°	313	30
180°	315	



TEST NUMBER: P219374

CATALOG NUMBER: SSLED-LD5-9-M-UNV-L850-CD1-UPL-U

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4037.4
2.5°	4047.6
5°	4068.2
7.5°	4103.4
10°	4150.5
12.5°	4192.8
15°	4234.3
17.5°	4262.4
20°	4264.4
22.5°	4229.2
25°	4140.2
27.5°	3976.0
30°	3724.9
32.5°	3395.8
35°	3010.1
37.5°	2605.9
40°	2202.8
42.5°	1816.7
45°	1466.7
47.5°	1179.1
50°	950.1
52.5°	780.4
55°	647.5
57.5°	546.3
60°	461.6
62.5°	395.5
65°	342.9
67.5°	298.6
70°	260.3
72.5°	230.2
75°	202.9
77.5°	174.8
80°	145.6
82.5°	115.5
85°	78.7
87.5°	58.5
90°	41.9
92.5°	27.3
95°	28.9
97.5°	30.5
100°	32.8
102.5°	36.0
105°	40.0
107.5°	46.7
110°	57.7



TEST NUMBER: P219374

CATALOG NUMBER: SSLED-LD5-9-M-UNV-L850-CD1-UPL-U

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	69.2
115°	79.9
117.5°	90.2
120°	100.5
122.5°	111.5
125°	122.2
127.5°	133.3
130°	144.8
132.5°	155.8
135°	166.5
137.5°	176.8
140°	187.1
142.5°	197.4
145°	206.9
147.5°	216.0
150°	224.7
152.5°	232.6
155°	241.3
157.5°	251.2
160°	263.8
162.5°	280.8
165°	293.9
167.5°	299.8
170°	304.2
172.5°	308.9
175°	312.9
177.5°	314.5
180°	314.9

(END OF REPORT)