

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: P219436

Luminaire Tested: **SSLED-LD5-9-W-UNV-L840-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: P219436  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27260)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SSLED-LD5-9-W-UNV-L840-CD1-UPL-U  
Description: METALUX ROUND HIGH BAY STEELER LED WITH WIDE 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: 8274.8 lumens  
Efficiency: N/A  
Efficacy: 129.1 lumens/watt  
Spacing Criteria (0/90/45): 1.87 / 1.87 / 1.66  
Luminous Opening: Circular (Dia: 1.41' x H: 0')  
CIE Type: Direct

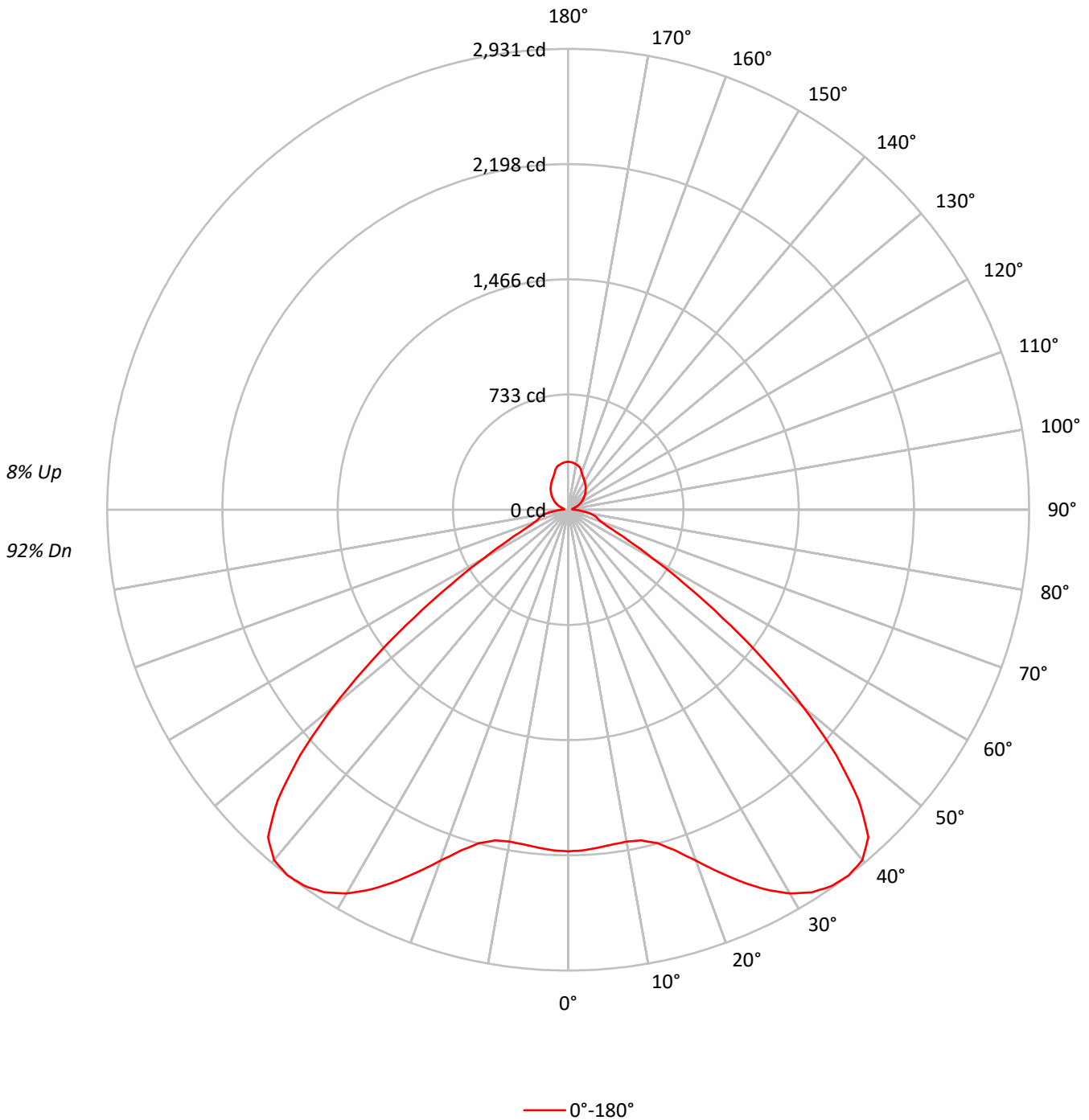
Input Watts (W): 64.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P219436

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L840-CD1-UPL-U

### Luminous Intensity Polar Plot





TEST NUMBER: P219436

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L840-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	92
1	108	104	100	97	105	101	98	95	95	93	90	90	88	86	85	84	82	80
2	100	92	86	81	96	90	84	80	85	80	77	81	77	74	76	73	71	68
3	91	82	75	69	88	80	73	68	76	70	65	72	67	63	68	65	61	59
4	84	73	65	59	81	71	64	58	68	61	56	64	59	55	61	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49	58	52	48	55	50	46	44
6	71	59	50	44	69	57	50	44	55	48	43	52	46	42	50	45	41	39
7	66	53	45	39	64	52	44	39	50	43	38	48	41	37	46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33	43	37	33	42	36	32	30
9	57	44	36	31	55	43	36	30	41	35	30	40	34	29	38	33	29	27
10	53	40	33	28	51	39	32	27	38	31	27	36	30	26	35	30	26	24

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

	0°
0°	14976
5°	14935
10°	15003
15°	15677
20°	17425
25°	19867
30°	22432
35°	24587
40°	26181
45°	25470
50°	20909
55°	14355
60°	8542
65°	5442
70°	4452
75°	4954
80°	5633
85°	6248



TEST NUMBER: P219436

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L840-CD1-UPL-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.5	2.5
10°-20°	632.9	7.6
20°-30°	1212.4	14.7
30°-40°	1823.1	22.0
40°-50°	1960.2	23.7
50°-60°	1092.3	13.2
60°-70°	360.3	4.4
70°-80°	194.3	2.3
80°-90°	93.6	1.1
90°-100°	31.2	0.4
100°-110°	40.6	0.5
110°-120°	75.3	0.9
120°-130°	103.2	1.2
130°-140°	119.3	1.4
140°-150°	119.5	1.4
150°-160°	104.8	1.3
160°-170°	78.0	0.9
170°-180°	28.5	0.3
0°-30°	2050.7	24.8
0°-40°	3873.8	46.8
0°-60°	6926.3	83.7
0°-90°	7574.5	91.5
90°-120°	147.1	1.8
90°-150°	489.0	5.9
90°-180°	700.0	8.5
0°-180°	8274.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2172	
5°	2158	205
15°	2197	633
25°	2612	1212
35°	2922	1823
45°	2613	1960
55°	1194	1092
65°	334	360
75°	186	194
85°	79	80
90°	41	23
95°	26	22
105°	37	41
115°	77	75
125°	115	103
135°	155	119
145°	191	119
155°	227	105
165°	281	78
175°	302	28
180°	304	



TEST NUMBER: P219436

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L840-CD1-UPL-U

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2172.5
2.5°	2169.0
5°	2158.3
7.5°	2147.5
10°	2143.3
12.5°	2154.1
15°	2196.6
17.5°	2272.9
20°	2375.3
22.5°	2492.2
25°	2611.9
27.5°	2723.4
30°	2818.1
32.5°	2884.9
35°	2921.7
37.5°	2930.9
40°	2909.4
42.5°	2825.0
45°	2612.6
47.5°	2310.9
50°	1949.7
52.5°	1565.5
55°	1194.4
57.5°	876.9
60°	619.6
62.5°	447.1
65°	333.6
67.5°	261.1
70°	220.9
72.5°	200.1
75°	186.0
77.5°	168.3
80°	141.9
82.5°	114.6
85°	79.0
87.5°	58.3
90°	41.4
92.5°	26.1
95°	26.1
97.5°	26.8
100°	29.1
102.5°	32.2
105°	36.8
107.5°	43.3
110°	54.1



TEST NUMBER: P219436

CATALOG NUMBER: SSLED-LD5-9-W-UNV-L840-CD1-UPL-U

**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	66.3
115°	77.1
117.5°	86.3
120°	95.5
122.5°	105.8
125°	115.4
127.5°	125.0
130°	135.0
132.5°	144.9
135°	154.9
137.5°	164.1
140°	173.3
142.5°	182.1
145°	190.9
147.5°	199.4
150°	208.6
152.5°	217.4
155°	226.6
157.5°	237.0
160°	250.8
162.5°	268.4
165°	281.4
167.5°	287.6
170°	292.2
172.5°	297.5
175°	301.8
177.5°	303.7
180°	304.1

(END OF REPORT)