

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: P219373

Luminaire Tested: **SSLED-LD5-9-M-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: P219373  
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-L840-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) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8229.1 lumens  
Efficiency: N/A  
Efficacy: 128.4 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

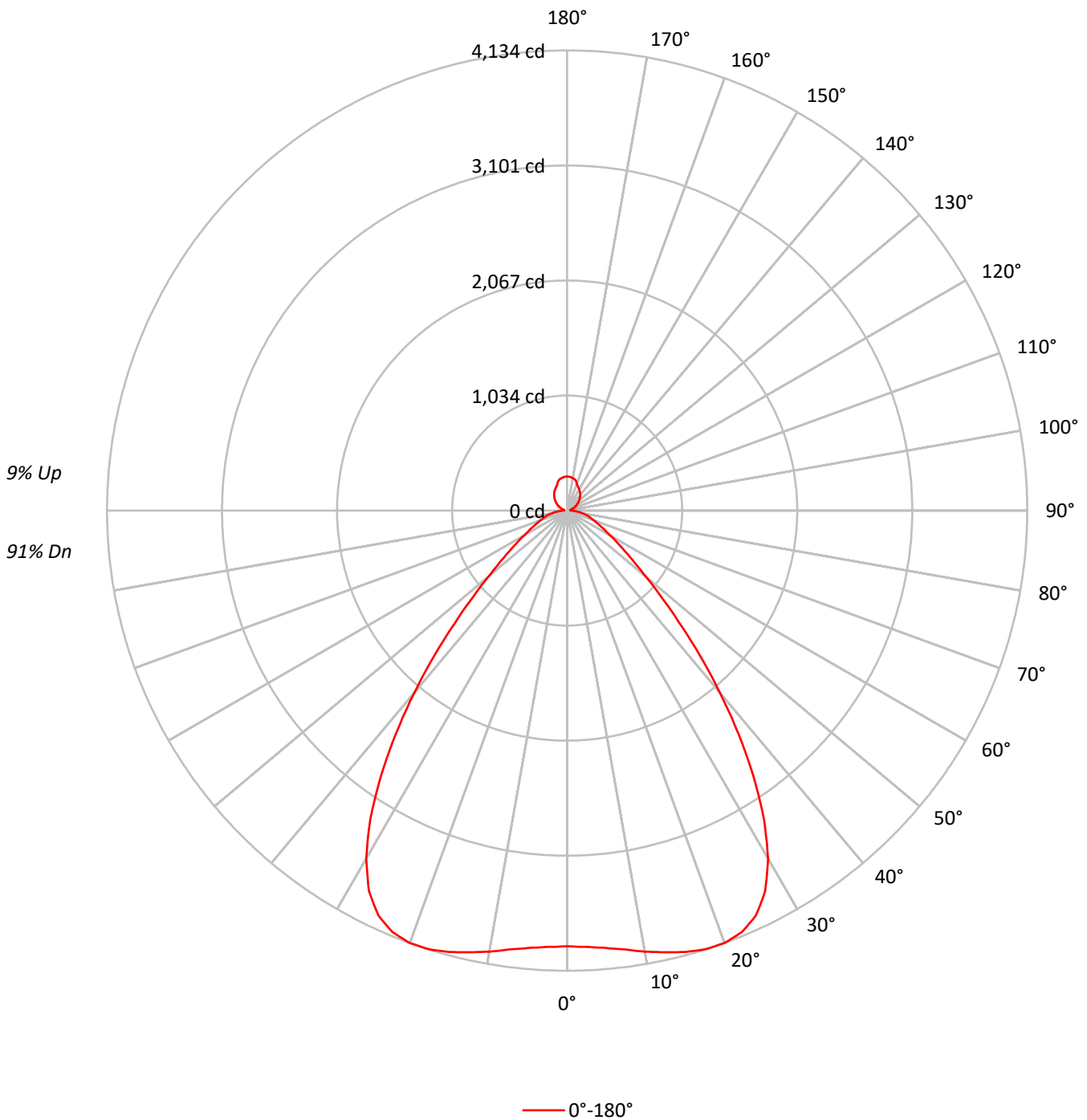
Input Watts (W): 64.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	26979
5°	27289
10°	28162
15°	29293
20°	30325
25°	30526
30°	28741
35°	24555
40°	19215
45°	13860
50°	9877
55°	7544
60°	6170
65°	5422
70°	5085
75°	5239
80°	5601
85°	6035



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.0	4.6
10°-20°	1162.5	14.1
20°-30°	1825.9	22.2
30°-40°	1804.8	21.9
40°-50°	1120.4	13.6
50°-60°	578.7	7.0
60°-70°	335.1	4.1
70°-80°	207.5	2.5
80°-90°	91.5	1.1
90°-100°	32.8	0.4
100°-110°	42.9	0.5
110°-120°	76.3	0.9
120°-130°	106.1	1.3
130°-140°	124.4	1.5
140°-150°	125.3	1.5
150°-160°	108.2	1.3
160°-170°	79.0	1.0
170°-180°	28.7	0.3
0°-30°	3367.4	40.9
0°-40°	5172.2	62.9
0°-60°	6871.3	83.5
0°-90°	7505.3	91.2
90°-120°	152.1	1.8
90°-150°	507.9	6.2
90°-180°	724.0	8.8
0°-180°	8229.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3914	
5°	3944	379
15°	4104	1162
25°	4013	1826
35°	2918	1805
45°	1422	1120
55°	628	579
65°	332	335
75°	197	207
85°	76	78
90°	41	23
95°	28	24
105°	39	43
115°	78	76
125°	118	106
135°	161	124
145°	200	125
155°	234	108
165°	285	79
175°	303	29
180°	305	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3913.6
2.5°	3923.5
5°	3943.5
7.5°	3977.6
10°	4023.2
12.5°	4064.3
15°	4104.5
17.5°	4131.7
20°	4133.7
22.5°	4099.5
25°	4013.3
27.5°	3854.1
30°	3610.7
32.5°	3291.7
35°	2917.8
37.5°	2526.0
40°	2135.3
42.5°	1761.1
45°	1421.7
47.5°	1143.0
50°	921.0
52.5°	756.5
55°	627.7
57.5°	529.5
60°	447.5
62.5°	383.4
65°	332.4
67.5°	289.5
70°	252.3
72.5°	223.2
75°	196.7
77.5°	169.5
80°	141.1
82.5°	112.0
85°	76.3
87.5°	56.7
90°	40.6
92.5°	26.5
95°	28.0
97.5°	29.5
100°	31.8
102.5°	34.9
105°	38.7
107.5°	45.2
110°	56.0



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	67.1
115°	77.5
117.5°	87.4
120°	97.4
122.5°	108.1
125°	118.5
127.5°	129.2
130°	140.3
132.5°	151.1
135°	161.4
137.5°	171.4
140°	181.4
142.5°	191.3
145°	200.5
147.5°	209.3
150°	217.8
152.5°	225.5
155°	233.9
157.5°	243.5
160°	255.7
162.5°	272.2
165°	284.9
167.5°	290.6
170°	294.9
172.5°	299.5
175°	303.3
177.5°	304.8
180°	305.2

(END OF REPORT)