

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: P219309

Luminaire Tested: **SSLED-LD5-9-N-UNV-L835-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: P219309
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-LD5-9-N-UNV-L835-CD1-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) 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7501.3 lumens
Efficiency: N/A
Efficacy: 117.0 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): 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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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°	46358
5°	45460
10°	43346
15°	39890
20°	34952
25°	28760
30°	22298
35°	16536
40°	12043
45°	8996
50°	6947
55°	5684
60°	4962
65°	4572
70°	4487
75°	4794
80°	5280
85°	5956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.2	8.2
10°-20°	1551.8	20.7
20°-30°	1723.6	23.0
30°-40°	1241.2	16.5
40°-50°	727.6	9.7
50°-60°	432.0	5.8
60°-70°	281.5	3.8
70°-80°	189.1	2.5
80°-90°	89.1	1.2
90°-100°	31.5	0.4
100°-110°	39.2	0.5
110°-120°	71.4	1.0
120°-130°	96.8	1.3
130°-140°	111.7	1.5
140°-150°	110.6	1.5
150°-160°	94.5	1.3
160°-170°	69.2	0.9
170°-180°	25.2	0.3
0°-30°	3890.7	51.9
0°-40°	5131.9	68.4
0°-60°	6291.5	83.9
0°-90°	6851.3	91.3
90°-120°	142.1	1.9
90°-150°	461.1	6.1
90°-180°	650.0	8.7
0°-180°	7501.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6725	
5°	6570	615
15°	5589	1552
25°	3781	1724
35°	1965	1241
45°	923	728
55°	473	432
65°	280	282
75°	180	189
85°	75	76
90°	41	23
95°	26	22
105°	35	39
115°	73	71
125°	108	97
135°	145	112
145°	177	111
155°	204	94
165°	250	69
175°	266	25
180°	269	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6724.8
2.5°	6683.2
5°	6569.5
7.5°	6406.4
10°	6192.4
12.5°	5917.4
15°	5589.4
17.5°	5203.3
20°	4764.5
22.5°	4283.7
25°	3781.1
27.5°	3279.6
30°	2801.3
32.5°	2360.7
35°	1964.9
37.5°	1622.6
40°	1338.3
42.5°	1107.8
45°	922.8
47.5°	771.5
50°	647.8
52.5°	549.6
55°	472.9
57.5°	410.8
60°	359.9
62.5°	316.9
65°	280.3
67.5°	249.5
70°	222.6
72.5°	200.8
75°	180.0
77.5°	157.7
80°	133.0
82.5°	107.9
85°	75.3
87.5°	57.0
90°	40.9
92.5°	26.2
95°	26.5
97.5°	27.6
100°	29.4
102.5°	31.5
105°	35.1
107.5°	41.6
110°	51.6



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CANDELA DISTRIBUTION (continued):

	0°
112.5°	63.1
115°	72.8
117.5°	81.7
120°	90.3
122.5°	98.9
125°	107.9
127.5°	117.2
130°	127.3
132.5°	136.2
135°	144.8
137.5°	153.4
140°	161.7
142.5°	169.6
145°	176.7
147.5°	183.9
150°	190.4
152.5°	196.8
155°	204.0
157.5°	212.6
160°	223.7
162.5°	238.0
165°	249.5
167.5°	254.5
170°	258.8
172.5°	262.8
175°	266.4
177.5°	268.2
180°	269.2

(END OF REPORT)