

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: P219313

Luminaire Tested: **SSLED-LD5-12-N-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: P219313
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-LD5-12-N-UNV-L840-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) 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10698.8 lumens
Efficiency: N/A
Efficacy: 125.4 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

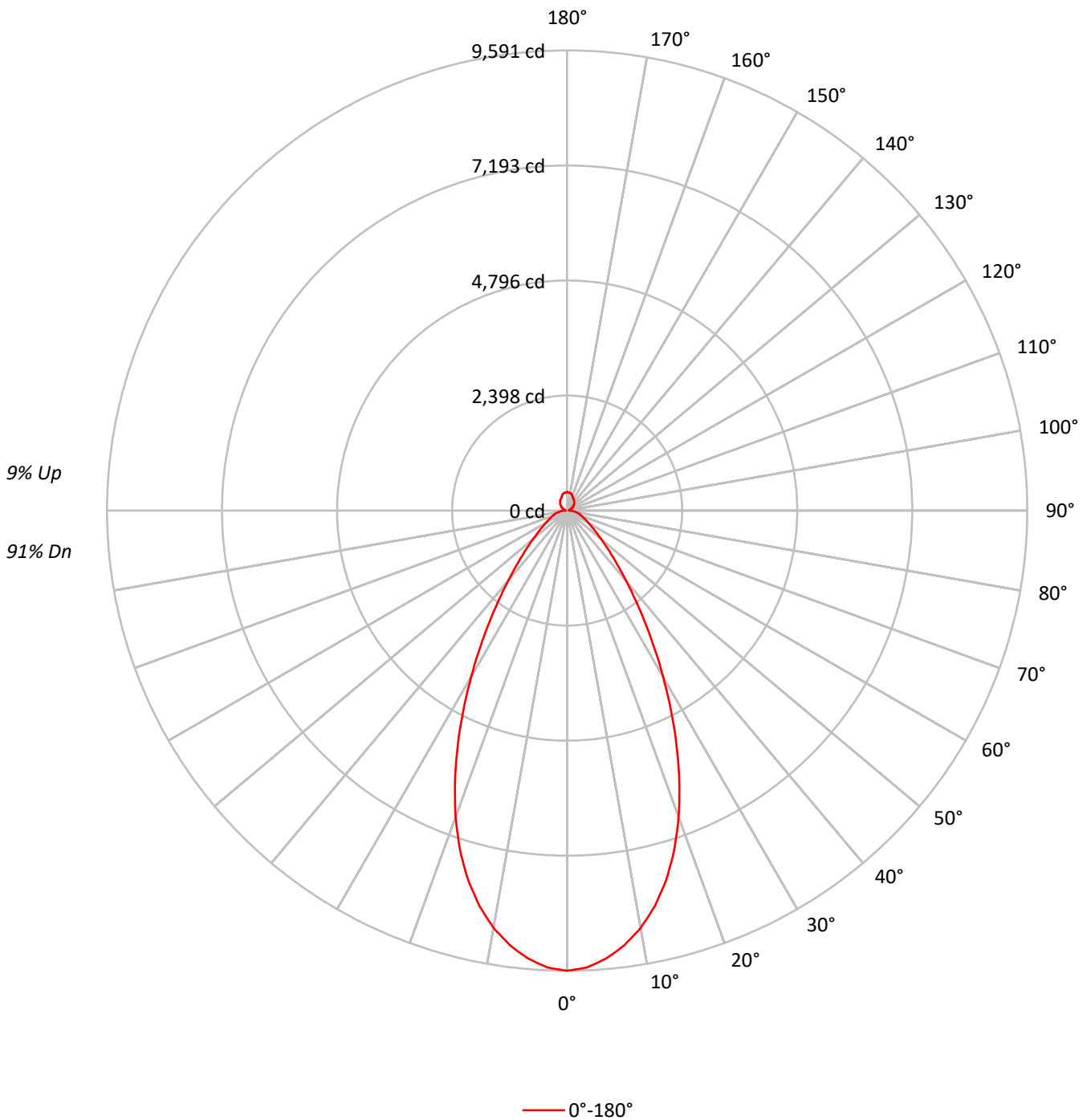
Input Watts (W): 85.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P219313

CATALOG NUMBER: SSLED-LD5-12-N-UNV-L840-CD1-UPL-U

Luminous Intensity Polar Plot





TEST NUMBER: P219313

CATALOG NUMBER: SSLED-LD5-12-N-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	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°	66117
5°	64838
10°	61822
15°	56893
20°	49851
25°	41019
30°	31803
35°	23584
40°	17176
45°	12831
50°	9908
55°	8105
60°	7078
65°	6521
70°	6399
75°	6837
80°	7531
85°	8495



TEST NUMBER: P219313

CATALOG NUMBER: SSLED-LD5-12-N-UNV-L840-CD1-UPL-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	877.5	8.2
10°-20°	2213.3	20.7
20°-30°	2458.4	23.0
30°-40°	1770.3	16.5
40°-50°	1037.6	9.7
50°-60°	616.2	5.8
60°-70°	401.6	3.8
70°-80°	269.7	2.5
80°-90°	127.1	1.2
90°-100°	44.9	0.4
100°-110°	56.0	0.5
110°-120°	101.8	1.0
120°-130°	138.0	1.3
130°-140°	159.4	1.5
140°-150°	157.7	1.5
150°-160°	134.8	1.3
160°-170°	98.7	0.9
170°-180°	35.9	0.3
0°-30°	5549.1	51.9
0°-40°	7319.4	68.4
0°-60°	8973.3	83.9
0°-90°	9771.6	91.3
90°-120°	202.7	1.9
90°-150°	657.8	6.1
90°-180°	927.0	8.7
0°-180°	10698.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9591	
5°	9370	877
15°	7972	2213
25°	5393	2458
35°	2802	1770
45°	1316	1038
55°	674	616
65°	400	402
75°	257	270
85°	107	108
90°	58	32
95°	38	32
105°	50	56
115°	104	102
125°	154	138
135°	207	159
145°	252	158
155°	291	135
165°	356	99
175°	380	36
180°	384	



TEST NUMBER: P219313

CATALOG NUMBER: SSLED-LD5-12-N-UNV-L840-CD1-UPL-U

CANDELA DISTRIBUTION (FULL):

0°	
0°	9591.2
2.5°	9531.9
5°	9369.8
7.5°	9137.2
10°	8831.9
12.5°	8439.7
15°	7971.9
17.5°	7421.2
20°	6795.4
22.5°	6109.7
25°	5392.8
27.5°	4677.5
30°	3995.4
32.5°	3367.0
35°	2802.5
37.5°	2314.2
40°	1908.7
42.5°	1580.0
45°	1316.1
47.5°	1100.3
50°	923.9
52.5°	783.8
55°	674.4
57.5°	586.0
60°	513.4
62.5°	452.0
65°	399.8
67.5°	355.9
70°	317.5
72.5°	286.3
75°	256.7
77.5°	225.0
80°	189.7
82.5°	153.9
85°	107.4
87.5°	81.3
90°	58.3
92.5°	37.3
95°	37.8
97.5°	39.4
100°	41.9
102.5°	45.0
105°	50.1
107.5°	59.3
110°	73.6



TEST NUMBER: P219313

CATALOG NUMBER: SSLED-LD5-12-N-UNV-L840-CD1-UPL-U

CANDELA DISTRIBUTION (continued):

	0°
112.5°	90.0
115°	103.8
117.5°	116.6
120°	128.9
122.5°	141.1
125°	153.9
127.5°	167.2
130°	181.5
132.5°	194.3
135°	206.6
137.5°	218.8
140°	230.6
142.5°	241.9
145°	252.1
147.5°	262.3
150°	271.5
152.5°	280.7
155°	290.9
157.5°	303.2
160°	319.1
162.5°	339.5
165°	355.9
167.5°	363.0
170°	369.2
172.5°	374.8
175°	379.9
177.5°	382.5
180°	384.0

(END OF REPORT)