

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: P219376

Luminaire Tested: **SSLED-LD5-12-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: P219376  
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-LD5-12-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: 10973.9 lumens  
Efficiency: N/A  
Efficacy: 128.7 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

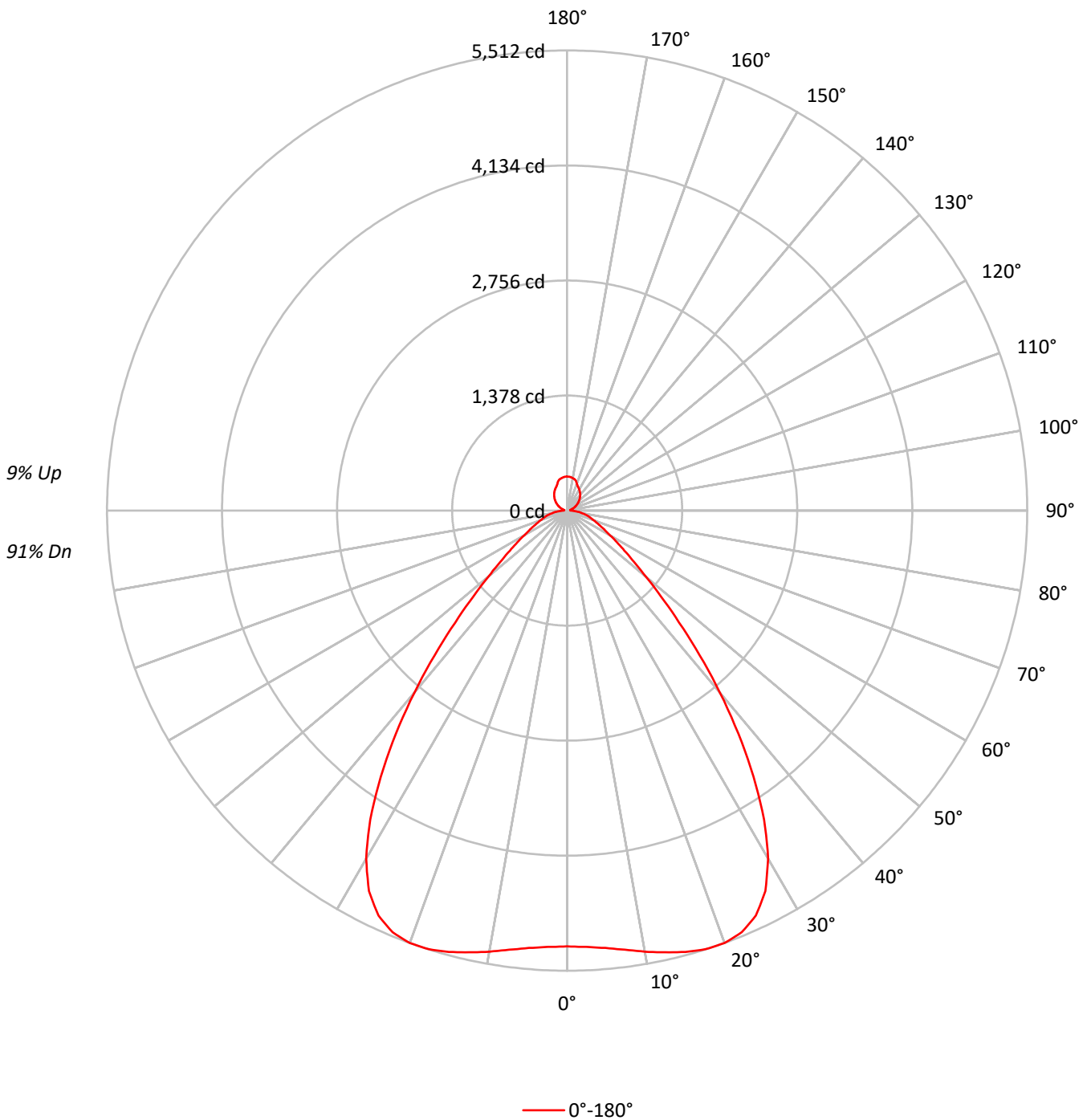
Input Watts (W): 85.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	35977
5°	36390
10°	37556
15°	39064
20°	40439
25°	40708
30°	38327
35°	32745
40°	25624
45°	18483
50°	13172
55°	10059
60°	8227
65°	7231
70°	6780
75°	6986
80°	7471
85°	8052



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	505.4	4.6
10°-20°	1550.2	14.1
20°-30°	2435.0	22.2
30°-40°	2406.8	21.9
40°-50°	1494.2	13.6
50°-60°	771.7	7.0
60°-70°	446.8	4.1
70°-80°	276.7	2.5
80°-90°	122.0	1.1
90°-100°	43.7	0.4
100°-110°	57.3	0.5
110°-120°	101.8	0.9
120°-130°	141.5	1.3
130°-140°	165.9	1.5
140°-150°	167.1	1.5
150°-160°	144.3	1.3
160°-170°	105.4	1.0
170°-180°	38.2	0.3
0°-30°	4490.6	40.9
0°-40°	6897.3	62.9
0°-60°	9163.2	83.5
0°-90°	10008.7	91.2
90°-120°	202.8	1.8
90°-150°	677.3	6.2
90°-180°	965.0	8.8
0°-180°	10973.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5219	
5°	5259	505
15°	5474	1550
25°	5352	2435
35°	3891	2407
45°	1896	1494
55°	837	772
65°	443	447
75°	262	277
85°	102	104
90°	54	30
95°	37	31
105°	52	57
115°	103	102
125°	158	141
135°	215	166
145°	267	167
155°	312	144
165°	380	105
175°	404	38
180°	407	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5218.9
2.5°	5232.2
5°	5258.8
7.5°	5304.3
10°	5365.2
12.5°	5419.9
15°	5473.6
17.5°	5509.9
20°	5512.4
22.5°	5466.9
25°	5351.9
27.5°	5139.7
30°	4815.0
32.5°	4389.6
35°	3891.1
37.5°	3368.5
40°	2847.5
42.5°	2348.5
45°	1895.9
47.5°	1524.2
50°	1228.2
52.5°	1008.8
55°	837.0
57.5°	706.1
60°	596.7
62.5°	511.3
65°	443.3
67.5°	386.0
70°	336.4
72.5°	297.6
75°	262.3
77.5°	226.0
80°	188.2
82.5°	149.3
85°	101.8
87.5°	75.7
90°	54.2
92.5°	35.3
95°	37.3
97.5°	39.4
100°	42.4
102.5°	46.5
105°	51.6
107.5°	60.3
110°	74.7



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	89.5
115°	103.3
117.5°	116.6
120°	129.9
122.5°	144.2
125°	158.0
127.5°	172.3
130°	187.1
132.5°	201.5
135°	215.3
137.5°	228.6
140°	241.8
142.5°	255.1
145°	267.4
147.5°	279.2
150°	290.4
152.5°	300.7
155°	311.9
157.5°	324.7
160°	341.0
162.5°	363.0
165°	379.9
167.5°	387.6
170°	393.2
172.5°	399.3
175°	404.4
177.5°	406.5
180°	407.0

(END OF REPORT)