

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: P219322

Luminaire Tested: **SSLED-LD5-24-N-UNV-L840-CD2-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: P219322  
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-LD5-24-N-UNV-L840-CD2-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: 20877.2 lumens  
Efficiency: N/A  
Efficacy: 109.5 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

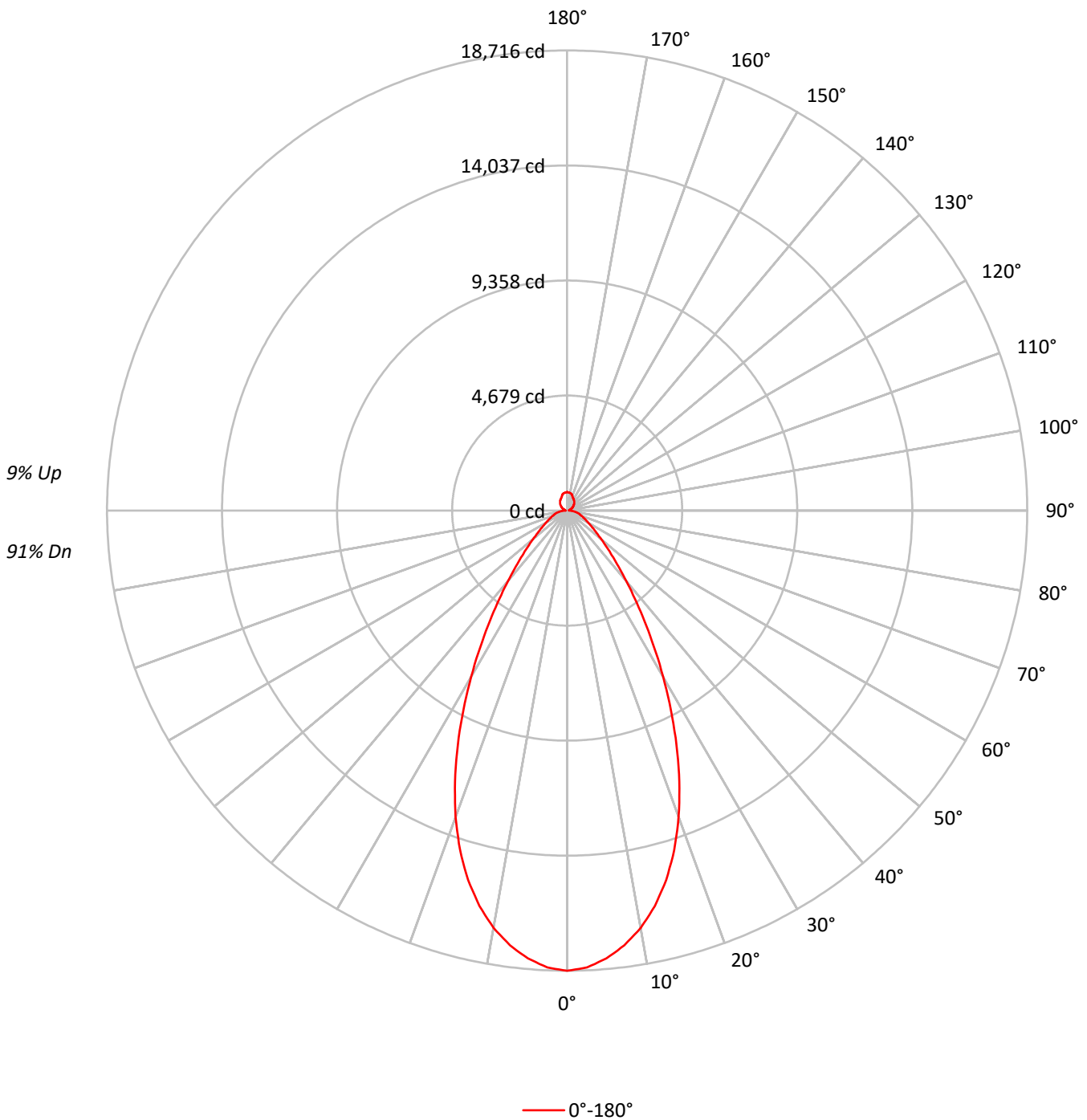
Input Watts (W): 190.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	129019
5°	126522
10°	120638
15°	111019
20°	97276
25°	80043
30°	62060
35°	46022
40°	33517
45°	25037
50°	19336
55°	15816
60°	13812
65°	12726
70°	12488
75°	13341
80°	14696
85°	16570



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1712.3	8.2
10°-20°	4318.9	20.7
20°-30°	4797.1	23.0
30°-40°	3454.6	16.5
40°-50°	2024.9	9.7
50°-60°	1202.5	5.8
60°-70°	783.6	3.8
70°-80°	526.3	2.5
80°-90°	248.0	1.2
90°-100°	87.6	0.4
100°-110°	109.3	0.5
110°-120°	198.6	1.0
120°-130°	269.3	1.3
130°-140°	311.0	1.5
140°-150°	307.7	1.5
150°-160°	263.0	1.3
160°-170°	192.6	0.9
170°-180°	70.1	0.3
0°-30°	10828.4	51.9
0°-40°	14282.9	68.4
0°-60°	17510.2	83.9
0°-90°	19068.0	91.3
90°-120°	395.5	1.9
90°-150°	1283.5	6.1
90°-180°	1809.0	8.7
0°-180°	20877.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18716	
5°	18284	###
15°	15556	4319
25°	10523	4797
35°	5469	3455
45°	2568	2025
55°	1316	1202
65°	780	784
75°	501	526
85°	210	211
90°	114	63
95°	74	62
105°	98	109
115°	202	199
125°	300	269
135°	403	311
145°	492	308
155°	568	263
165°	694	193
175°	741	70
180°	749	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	18716.0
2.5°	18600.2
5°	18283.9
7.5°	17830.0
10°	17234.3
12.5°	16469.0
15°	15556.1
17.5°	14481.5
20°	13260.2
22.5°	11922.2
25°	10523.4
27.5°	9127.5
30°	7796.5
32.5°	6570.2
35°	5468.7
37.5°	4515.9
40°	3724.6
42.5°	3083.1
45°	2568.2
47.5°	2147.2
50°	1803.0
52.5°	1529.6
55°	1316.0
57.5°	1143.4
60°	1001.8
62.5°	882.0
65°	780.2
67.5°	694.4
70°	619.6
72.5°	558.7
75°	500.9
77.5°	439.0
80°	370.2
82.5°	300.3
85°	209.5
87.5°	158.6
90°	113.7
92.5°	72.8
95°	73.8
97.5°	76.8
100°	81.8
102.5°	87.8
105°	97.8
107.5°	115.7
110°	143.7



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	175.6
115°	202.5
117.5°	227.5
120°	251.4
122.5°	275.4
125°	300.3
127.5°	326.3
130°	354.2
132.5°	379.1
135°	403.1
137.5°	427.0
140°	450.0
142.5°	471.9
145°	491.9
147.5°	511.9
150°	529.8
152.5°	547.8
155°	567.7
157.5°	591.7
160°	622.6
162.5°	662.5
165°	694.4
167.5°	708.4
170°	720.4
172.5°	731.4
175°	741.3
177.5°	746.3
180°	749.3

(END OF REPORT)