

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: P219384

Luminaire Tested: **SSLED-LD5-24-M-UNV-L835-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: P219384  
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-LD5-24-M-UNV-L835-CD2-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) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20022.2 lumens  
Efficiency: N/A  
Efficacy: 105.0 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

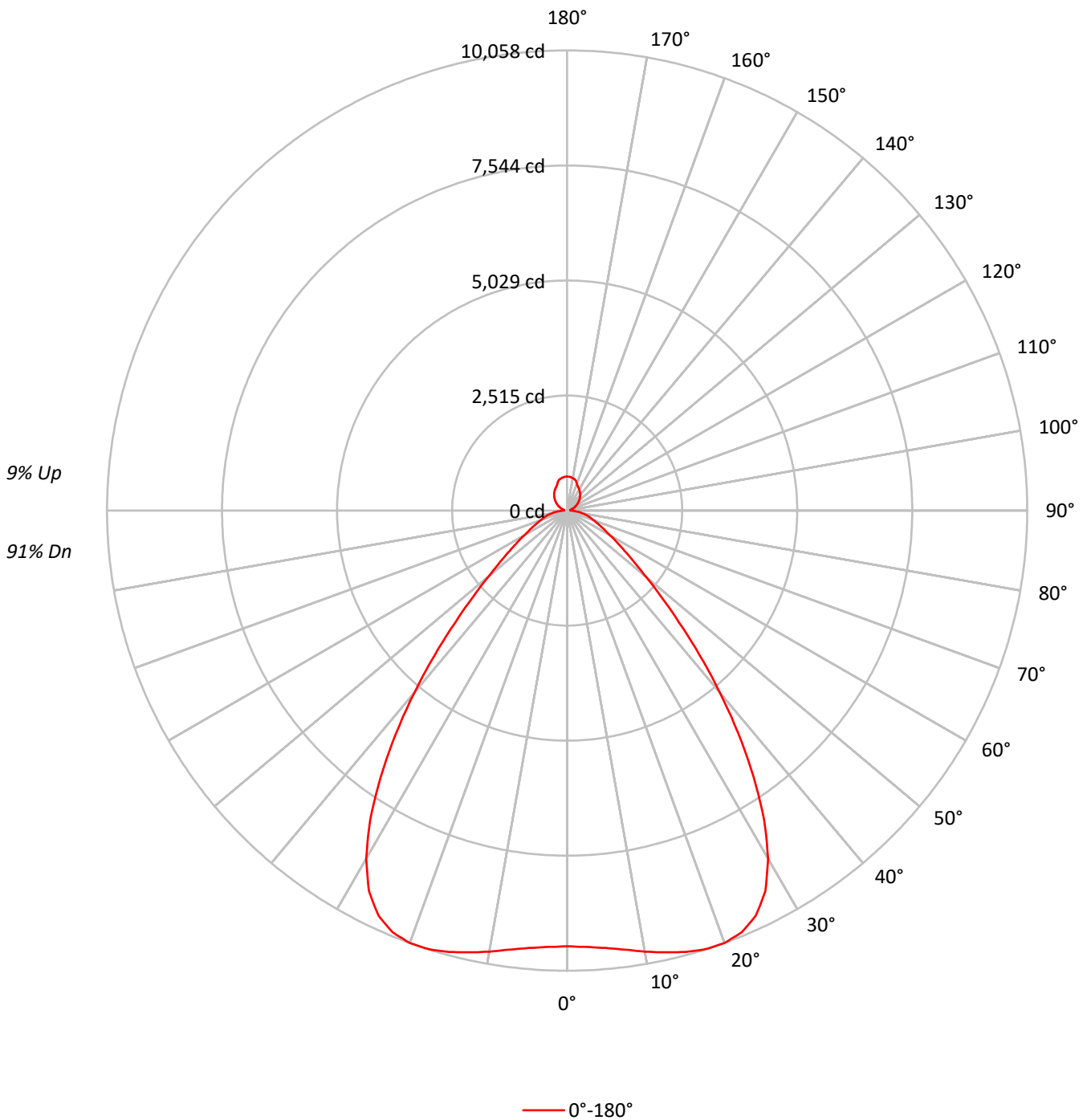
Input Watts (W): 190.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	65641
5°	66395
10°	68521
15°	71272
20°	73782
25°	74272
30°	69929
35°	59745
40°	46752
45°	33724
50°	24031
55°	18355
60°	15010
65°	13193
70°	12371
75°	12747
80°	13628
85°	14680



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	922.1	4.6
10°-20°	2828.4	14.1
20°-30°	4442.7	22.2
30°-40°	4391.2	21.9
40°-50°	2726.1	13.6
50°-60°	1408.0	7.0
60°-70°	815.3	4.1
70°-80°	504.7	2.5
80°-90°	222.6	1.1
90°-100°	79.8	0.4
100°-110°	104.5	0.5
110°-120°	185.7	0.9
120°-130°	258.2	1.3
130°-140°	302.7	1.5
140°-150°	304.9	1.5
150°-160°	263.3	1.3
160°-170°	192.3	1.0
170°-180°	69.7	0.3
0°-30°	8193.2	40.9
0°-40°	12584.4	62.9
0°-60°	16718.5	83.5
0°-90°	18261.0	91.2
90°-120°	370.0	1.8
90°-150°	1235.8	6.2
90°-180°	1761.0	8.8
0°-180°	20022.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9522	
5°	9595	922
15°	9987	2828
25°	9765	4443
35°	7099	4391
45°	3459	2726
55°	1527	1408
65°	809	815
75°	479	505
85°	186	190
90°	99	55
95°	68	57
105°	94	105
115°	188	186
125°	288	258
135°	393	303
145°	488	305
155°	569	263
165°	693	192
175°	738	70
180°	743	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9522.1
2.5°	9546.4
5°	9594.9
7.5°	9677.9
10°	9788.9
12.5°	9888.7
15°	9986.7
17.5°	10052.9
20°	10057.6
22.5°	9974.6
25°	9764.7
27.5°	9377.5
30°	8785.1
32.5°	8008.9
35°	7099.4
37.5°	6145.9
40°	5195.3
42.5°	4284.8
45°	3459.2
47.5°	2781.0
50°	2240.8
52.5°	1840.6
55°	1527.2
57.5°	1288.3
60°	1088.7
62.5°	932.9
65°	808.8
67.5°	704.3
70°	613.8
72.5°	542.9
75°	478.6
77.5°	412.3
80°	343.3
82.5°	272.4
85°	185.6
87.5°	138.1
90°	98.9
92.5°	64.4
95°	68.1
97.5°	71.8
100°	77.4
102.5°	84.9
105°	94.2
107.5°	110.1
110°	136.2



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	163.3
115°	188.4
117.5°	212.7
120°	237.0
122.5°	263.1
125°	288.3
127.5°	314.4
130°	341.4
132.5°	367.6
135°	392.8
137.5°	417.0
140°	441.3
142.5°	465.5
145°	487.9
147.5°	509.4
150°	529.9
152.5°	548.5
155°	569.1
157.5°	592.4
160°	622.2
162.5°	662.4
165°	693.1
167.5°	707.1
170°	717.4
172.5°	728.6
175°	737.9
177.5°	741.7
180°	742.6

(END OF REPORT)