

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: P219323

Luminaire Tested: **SSLED-LD5-24-N-UNV-L850-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: P219323  
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-L850-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) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21537.6 lumens  
Efficiency: N/A  
Efficacy: 113.0 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

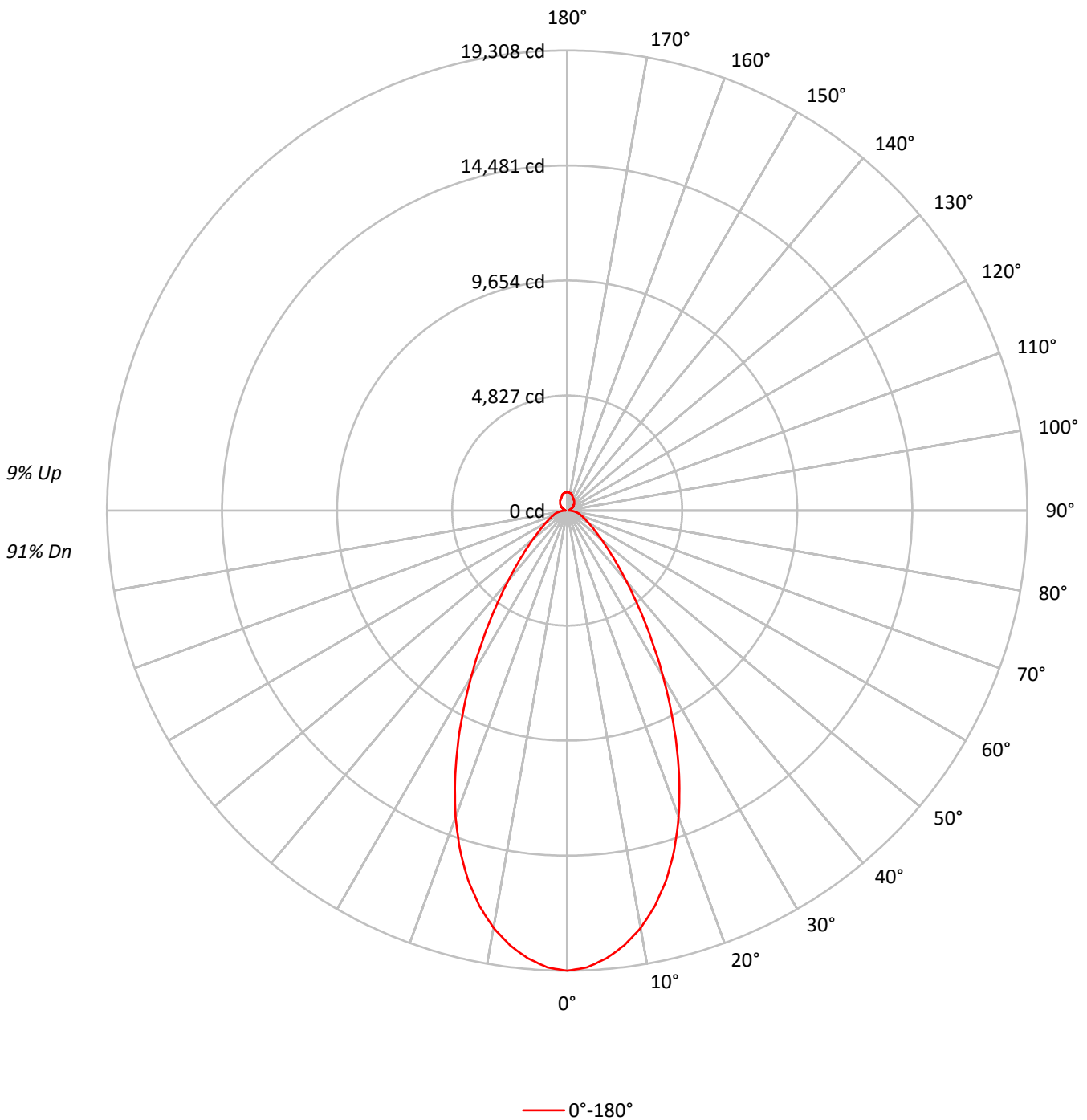
Input Watts (W): 190.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	133100
5°	130524
10°	124454
15°	114530
20°	100353
25°	82574
30°	64023
35°	47477
40°	34577
45°	25830
50°	19947
55°	16318
60°	14248
65°	13129
70°	12883
75°	13762
80°	15161
85°	17100



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1766.4	8.2
10°-20°	4455.5	20.7
20°-30°	4948.9	23.0
30°-40°	3563.8	16.5
40°-50°	2088.9	9.7
50°-60°	1240.5	5.8
60°-70°	808.4	3.8
70°-80°	542.9	2.5
80°-90°	255.8	1.2
90°-100°	90.4	0.4
100°-110°	112.7	0.5
110°-120°	205.0	1.0
120°-130°	277.9	1.3
130°-140°	320.8	1.5
140°-150°	317.5	1.5
150°-160°	271.3	1.3
160°-170°	198.7	0.9
170°-180°	72.3	0.3
0°-30°	11170.8	51.9
0°-40°	14734.6	68.4
0°-60°	18064.0	83.9
0°-90°	19671.2	91.3
90°-120°	408.1	1.9
90°-150°	1324.2	6.1
90°-180°	1866.0	8.7
0°-180°	21537.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	19308	
5°	18862	###
15°	16048	4456
25°	10856	4949
35°	5642	3564
45°	2650	2089
55°	1358	1240
65°	805	808
75°	517	543
85°	216	217
90°	117	65
95°	76	64
105°	101	113
115°	209	205
125°	310	278
135°	416	321
145°	508	317
155°	586	271
165°	716	199
175°	765	72
180°	773	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	19307.9
2.5°	19188.5
5°	18862.2
7.5°	18393.9
10°	17779.4
12.5°	16989.9
15°	16048.0
17.5°	14939.5
20°	13679.6
22.5°	12299.3
25°	10856.2
27.5°	9416.2
30°	8043.1
32.5°	6778.0
35°	5641.7
37.5°	4658.7
40°	3842.4
42.5°	3180.6
45°	2649.5
47.5°	2215.1
50°	1860.0
52.5°	1577.9
55°	1357.7
57.5°	1179.6
60°	1033.4
62.5°	909.9
65°	804.9
67.5°	716.4
70°	639.2
72.5°	576.4
75°	516.7
77.5°	452.9
80°	381.9
82.5°	309.8
85°	216.2
87.5°	163.7
90°	117.3
92.5°	75.1
95°	76.2
97.5°	79.3
100°	84.4
102.5°	90.6
105°	100.9
107.5°	119.4
110°	148.2



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	181.2
115°	209.0
117.5°	234.7
120°	259.4
122.5°	284.1
125°	309.8
127.5°	336.6
130°	365.4
132.5°	391.1
135°	415.8
137.5°	440.5
140°	464.2
142.5°	486.9
145°	507.5
147.5°	528.0
150°	546.6
152.5°	565.1
155°	585.7
157.5°	610.4
160°	642.3
162.5°	683.5
165°	716.4
167.5°	730.8
170°	743.2
172.5°	754.5
175°	764.8
177.5°	769.9
180°	773.0

(END OF REPORT)