

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: P219446

Luminaire Tested: **SSLED-LD5-18-W-UNV-L850-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: P219446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27260)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: SSLED-LD5-18-W-UNV-L850-CD1-UPL-U  
Description: METALUX ROUND HIGH BAY STEELER LED WITH WIDE 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: 16578.0 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Spacing Criteria (0/90/45): 1.87 / 1.87 / 1.66  
Luminous Opening: Circular (Dia: 1.41' x H: 0')  
CIE Type: Direct

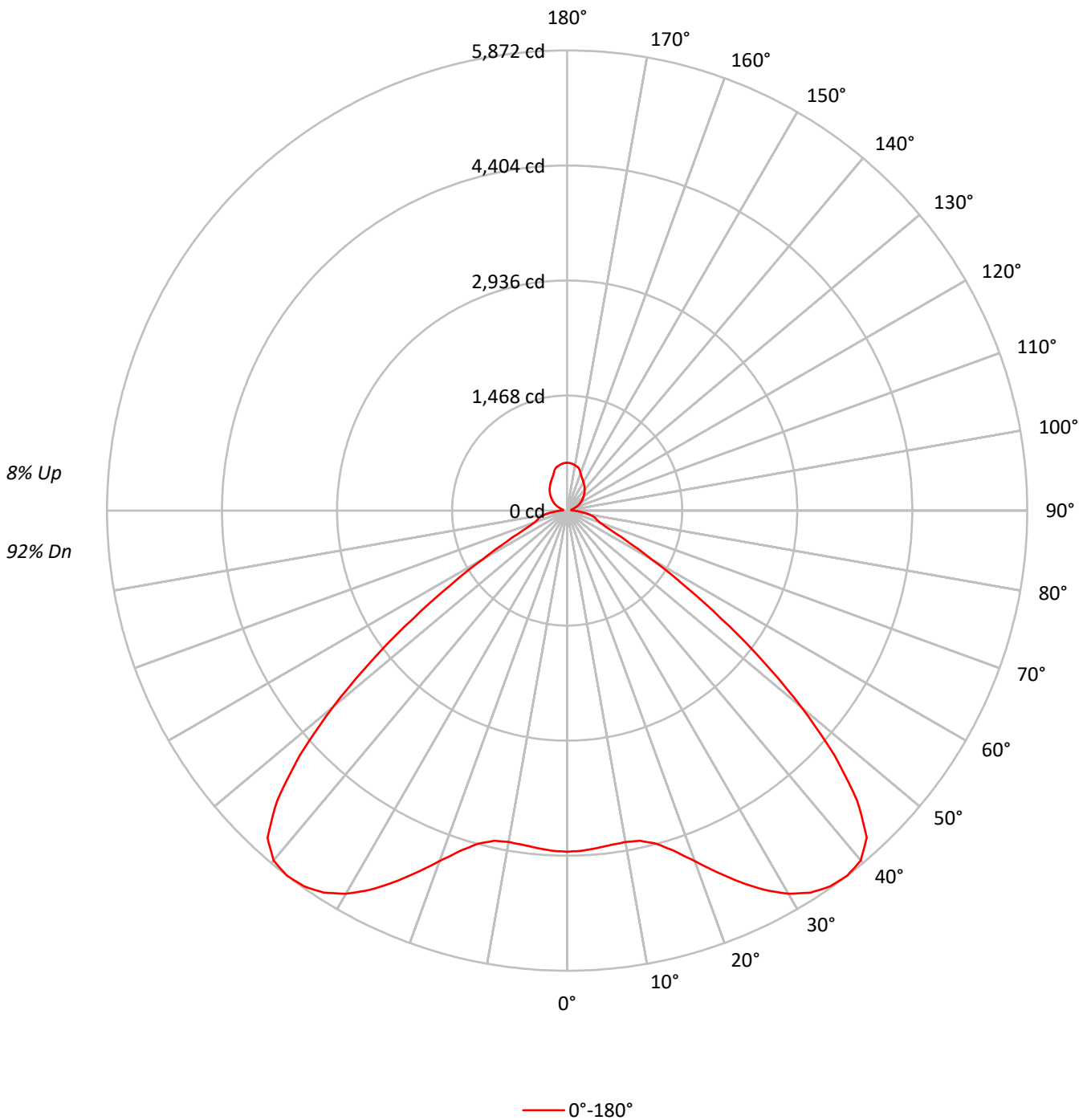
Input Watts (W): 133.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	92
1	108	104	100	97	105	101	98	95	95	93	90		90	88	86		85	84	82	80
2	100	92	86	81	96	90	84	80	85	80	77		81	77	74		76	73	71	68
3	91	82	75	69	88	80	73	68	76	70	65		72	67	63		68	65	61	59
4	84	73	65	59	81	71	64	58	68	61	56		64	59	55		61	57	53	51
5	77	65	57	51	75	64	56	50	61	54	49		58	52	48		55	50	46	44
6	71	59	50	44	69	57	50	44	55	48	43		52	46	42		50	45	41	39
7	66	53	45	39	64	52	44	39	50	43	38		48	41	37		46	40	36	34
8	61	48	40	34	59	47	39	34	45	38	33		43	37	33		42	36	32	30
9	57	44	36	31	55	43	36	30	41	35	30		40	34	29		38	33	29	27
10	53	40	33	28	51	39	32	27	38	31	27		36	30	26		35	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	30003
5°	29922
10°	30057
15°	31407
20°	34910
25°	39801
30°	44942
35°	49259
40°	52453
45°	51029
50°	41891
55°	28758
60°	17115
65°	10901
70°	8919
75°	9924
80°	11282
85°	12513



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.7	2.5
10°-20°	1267.9	7.6
20°-30°	2428.9	14.7
30°-40°	3652.5	22.0
40°-50°	3927.2	23.7
50°-60°	2188.2	13.2
60°-70°	721.9	4.4
70°-80°	389.3	2.3
80°-90°	187.5	1.1
90°-100°	62.4	0.4
100°-110°	81.4	0.5
110°-120°	150.8	0.9
120°-130°	206.7	1.2
130°-140°	238.9	1.4
140°-150°	239.3	1.4
150°-160°	210.0	1.3
160°-170°	156.3	0.9
170°-180°	57.1	0.3
0°-30°	4108.5	24.8
0°-40°	7761.0	46.8
0°-60°	13876.4	83.7
0°-90°	15175.1	91.5
90°-120°	294.6	1.8
90°-150°	979.6	5.9
90°-180°	1403.0	8.5
0°-180°	16578.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4352	
5°	4324	412
15°	4401	1268
25°	5233	2429
35°	5853	3652
45°	5234	3927
55°	2393	2188
65°	668	722
75°	373	389
85°	158	160
90°	83	46
95°	52	44
105°	74	81
115°	154	151
125°	231	207
135°	310	239
145°	382	239
155°	454	210
165°	564	156
175°	604	57
180°	609	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4352.4
2.5°	4345.5
5°	4324.0
7.5°	4302.5
10°	4294.0
12.5°	4315.6
15°	4400.8
17.5°	4553.7
20°	4758.8
22.5°	4993.1
25°	5232.7
27.5°	5456.3
30°	5646.0
32.5°	5779.7
35°	5853.4
37.5°	5871.9
40°	5828.8
42.5°	5659.8
45°	5234.3
47.5°	4629.7
50°	3906.1
52.5°	3136.4
55°	2392.8
57.5°	1756.8
60°	1241.4
62.5°	895.7
65°	668.3
67.5°	523.1
70°	442.5
72.5°	401.0
75°	372.6
77.5°	337.2
80°	284.2
82.5°	229.7
85°	158.2
87.5°	116.8
90°	83.0
92.5°	52.2
95°	52.2
97.5°	53.8
100°	58.4
102.5°	64.5
105°	73.7
107.5°	86.8
110°	108.3



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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	132.9
115°	154.4
117.5°	172.8
120°	191.3
122.5°	212.0
125°	231.2
127.5°	250.4
130°	270.4
132.5°	290.4
135°	310.3
137.5°	328.8
140°	347.2
142.5°	364.9
145°	382.5
147.5°	399.4
150°	417.9
152.5°	435.6
155°	454.0
157.5°	474.7
160°	502.4
162.5°	537.7
165°	563.8
167.5°	576.1
170°	585.3
172.5°	596.1
175°	604.5
177.5°	608.4
180°	609.2

(END OF REPORT)