

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: P219299

Luminaire Tested: **SSLED-LD5-18-N-UNV-L850-CD1-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: P219299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27366)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: SSLED-LD5-18-N-UNV-L850-CD1-U
Description: METALUX ROUND HIGH BAY STEELER LED WITH NARROW DISTRIBUTION LENS WITH Rev.G BOARD. LENS DIFFUSE 2407, 7.5% BLEND.
Light Source: (240) 5000K CCT, 80 CRI LEDs
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18596.1 lumens
Efficiency: N/A
Efficacy: 139.0 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

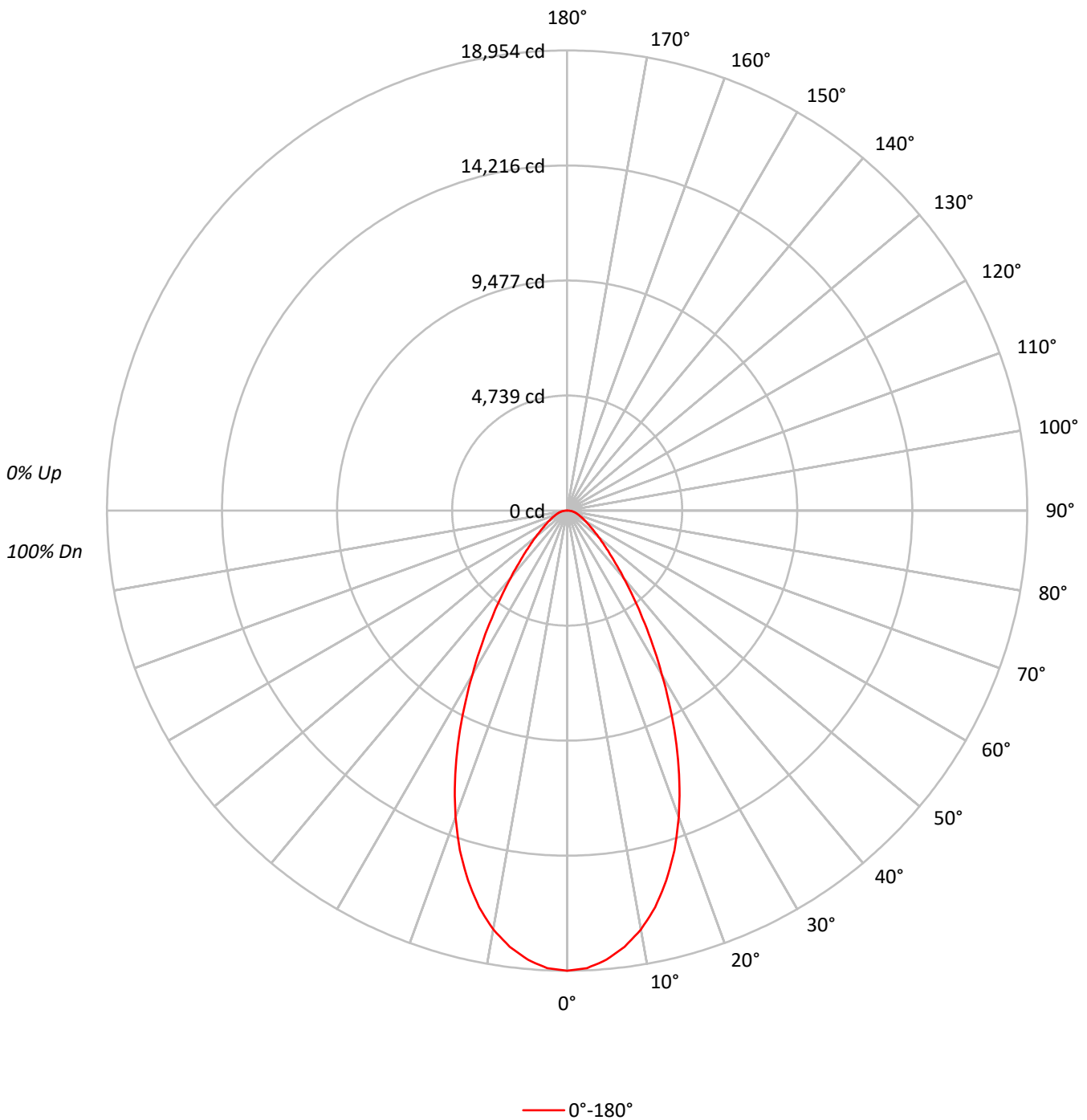
Input Watts (W): 133.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98		99	97	95		95	94	92	91
2	105	99	95	90	103	98	93	89	94	91	87		91	88	86		88	86	84	82
3	99	91	85	81	97	90	84	80	87	83	79		85	81	77		82	79	76	75
4	93	84	78	73	91	83	77	72	81	76	72		79	74	71		77	73	70	68
5	88	78	71	66	86	77	71	66	75	70	65		73	69	65		72	68	64	63
6	83	73	66	61	81	72	65	61	70	65	60		69	64	60		67	63	59	58
7	78	68	61	56	77	67	61	56	66	60	56		65	59	56		63	59	55	54
8	74	64	57	52	73	63	57	52	62	56	52		61	55	52		60	55	51	50
9	70	60	53	49	69	59	53	49	58	52	48		57	52	48		56	52	48	47
10	67	56	50	46	66	56	50	46	55	49	45		54	49	45		53	49	45	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	130657
5°	128514
10°	122618
15°	112591
20°	98586
25°	80978
30°	62126
35°	45621
40°	32588
45°	23696
50°	17985
55°	14265
60°	11978
65°	10663
70°	9955
75°	9759
80°	10032
85°	10939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1739.3	9.4
10°-20°	4382.7	23.6
20°-30°	4846.7	26.1
30°-40°	3422.3	18.4
40°-50°	1926.0	10.4
50°-60°	1086.9	5.8
60°-70°	656.8	3.5
70°-80°	389.9	2.1
80°-90°	145.4	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10968.7	59.0
0°-40°	14391.0	77.4
0°-60°	17403.9	93.6
0°-90°	18596.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18596.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	18954	
5°	18572	###
15°	15776	4383
25°	10646	4847
35°	5421	3422
45°	2431	1926
55°	1187	1087
65°	654	657
75°	366	390
85°	138	145
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	18953.6
2.5°	18862.2
5°	18571.8
7.5°	18122.4
10°	17517.1
12.5°	16739.7
15°	15776.3
17.5°	14684.0
20°	13438.7
22.5°	12081.3
25°	10646.4
27.5°	9199.9
30°	7804.8
32.5°	6548.1
35°	5421.1
37.5°	4436.3
40°	3621.3
42.5°	2959.8
45°	2430.6
47.5°	2013.4
50°	1677.0
52.5°	1405.0
55°	1186.9
57.5°	1011.7
60°	868.8
62.5°	752.1
65°	653.7
67.5°	569.2
70°	493.9
72.5°	427.9
75°	366.4
77.5°	310.3
80°	252.7
82.5°	195.9
85°	138.3
87.5°	73.7
90°	0.0

(END OF REPORT)