

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: HALO

Report Number: P328548

Luminaire Tested: **L815SML18NF935MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SML18NF935MB
Description: Small, 1800lm, 25D, 3500K, black finish
Light Source: (1) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1940.0 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.39
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

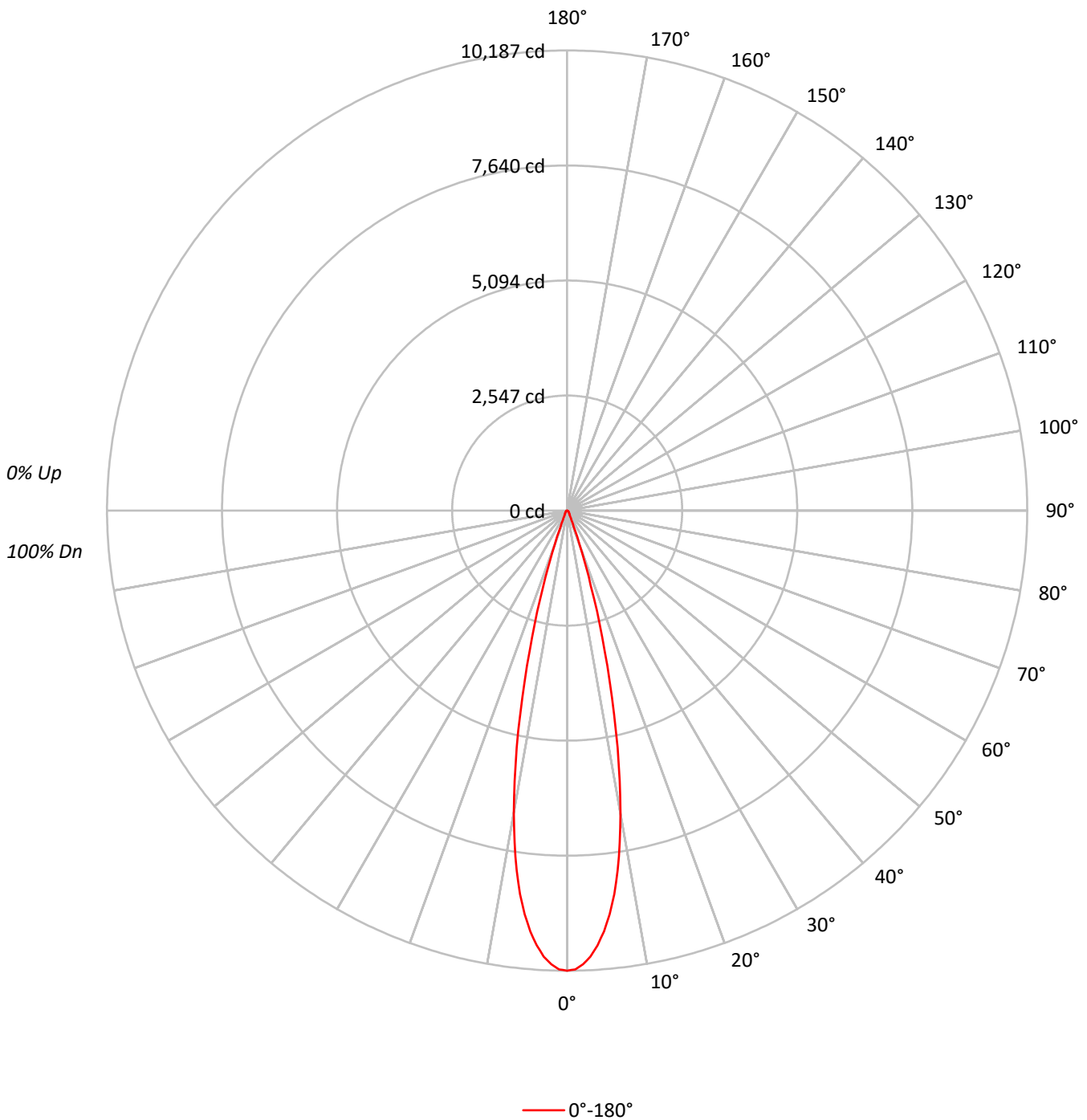
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P328548

CATALOG NUMBER: L815SML18NF935MB

Luminous Intensity Polar Plot





TEST NUMBER: P328548

CATALOG NUMBER: L815SML18NF935MB

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	115	113	111	110	113	111	109	108	107	106	105		103	102	101		100	99	99	97
2	112	108	105	103	110	106	104	102	103	101	99		100	99	97		98	97	95	94
3	108	104	100	97	106	102	99	97	100	97	95		98	96	94		96	94	92	91
4	105	100	96	93	104	99	95	93	97	94	92		95	93	91		93	91	90	89
5	102	97	93	90	101	96	92	89	94	91	89		93	90	88		91	89	87	86
6	100	94	90	87	98	93	89	87	92	88	86		90	88	85		89	87	85	84
7	97	91	87	84	96	90	87	84	89	86	84		88	85	83		87	85	83	82
8	95	89	85	82	94	88	84	82	87	84	82		86	83	81		86	83	81	80
9	93	86	82	80	92	86	82	80	85	82	80		84	81	79		84	81	79	78
10	90	84	81	78	90	84	80	78	83	80	78		83	80	78		82	79	77	77

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2233790
5°	2058414
10°	1514089
15°	726792
20°	183696
25°	51414
30°	27625
35°	21362
40°	18978
45°	16033
50°	13032
55°	9902
60°	4429
65°	2906
70°	1410
75°	0
80°	0
85°	0



TEST NUMBER: P328548

CATALOG NUMBER: L815SML18NF935MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.9	41.9
10°-20°	880.0	45.4
20°-30°	127.9	6.6
30°-40°	51.4	2.7
40°-50°	40.1	2.1
50°-60°	22.1	1.1
60°-70°	5.9	0.3
70°-80°	0.6	0.0
80°-90°	0.0	0.0
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°	1819.9	93.8
0°-40°	1871.3	96.5
0°-60°	1933.5	99.7
0°-90°	1940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10187	
5°	9351	812
15°	3202	880
25°	212	128
35°	80	51
45°	52	40
55°	26	22
65°	6	6
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P328548

CATALOG NUMBER: L815SML18NF935MB

CANDELA DISTRIBUTION (FULL):

0°	
0°	10186.9
1°	10157.7
2°	10053.1
3°	9888.9
4°	9644.9
5°	9351.4
6°	8984.8
7°	8554.1
8°	8041.4
9°	7440.9
10°	6799.9
11°	6097.1
12°	5366.2
13°	4620.6
14°	3897.6
15°	3201.5
17.5°	1739.6
20°	787.2
22.5°	370.0
25°	212.5
27.5°	143.9
30°	109.1
32.5°	90.0
35°	79.8
37.5°	73.1
40°	66.3
42.5°	59.6
45°	51.7
47.5°	45.0
50°	38.2
52.5°	31.5
55°	25.9
57.5°	18.0
60°	10.1
62.5°	7.9
65°	5.6
67.5°	4.5
70°	2.2
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



TEST NUMBER: P328548

CATALOG NUMBER: L815SML18NF935MB

CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

(END OF REPORT)