

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: P328546

Luminaire Tested: **L815SML18NF927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328546
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: L815SML18NF927MB
Description: Small, 1800lm, 25D, 2700K, black finish
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1725.0 lumens
Efficiency: N/A
Efficacy: 86.3 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

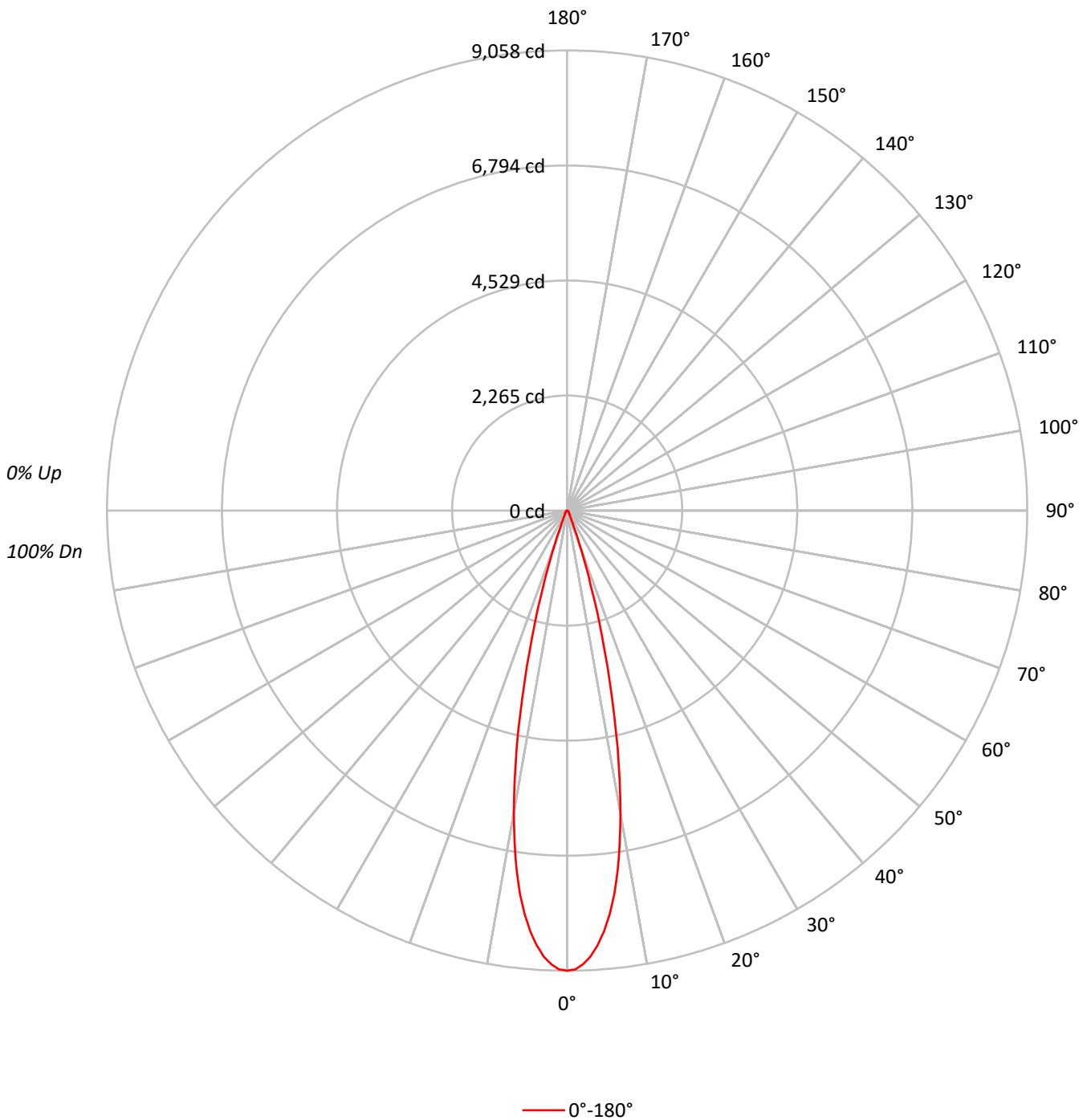
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P328546

CATALOG NUMBER: L815SML18NF927MB

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	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	80	78	90	84	80	78	83	80	78	83	80	78	82	79	77	77

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1986244
5°	1830306
10°	1346290
15°	646247
20°	163324
25°	45728
30°	24561
35°	19006
40°	16889
45°	14265
50°	11599
55°	8793
60°	3947
65°	2594
70°	1282
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.9	41.8
10°-20°	782.5	45.4
20°-30°	113.8	6.6
30°-40°	45.7	2.7
40°-50°	35.6	2.1
50°-60°	19.6	1.1
60°-70°	5.3	0.3
70°-80°	0.5	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°	1618.2	93.8
0°-40°	1663.9	96.5
0°-60°	1719.2	99.7
0°-90°	1725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1725.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9058	
5°	8315	722
15°	2847	782
25°	189	114
35°	71	46
45°	46	36
55°	23	20
65°	5	5
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9058.0
1°	9032.0
2°	8939.0
3°	8793.0
4°	8576.0
5°	8315.1
6°	7989.1
7°	7606.1
8°	7150.2
9°	6616.2
10°	6046.3
11°	5421.4
12°	4771.5
13°	4108.5
14°	3465.6
15°	2846.7
17.5°	1546.8
20°	699.9
22.5°	329.0
25°	189.0
27.5°	128.0
30°	97.0
32.5°	80.0
35°	71.0
37.5°	65.0
40°	59.0
42.5°	53.0
45°	46.0
47.5°	40.0
50°	34.0
52.5°	28.0
55°	23.0
57.5°	16.0
60°	9.0
62.5°	7.0
65°	5.0
67.5°	4.0
70°	2.0
72.5°	1.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

(END OF REPORT)