

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: P328547

Luminaire Tested: **L815SML18NF930MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328547  
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: L815SML18NF930MB  
Description: Small, 1800lm, 25D, 3000K, black finish  
Light Source: (1) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1838.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 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

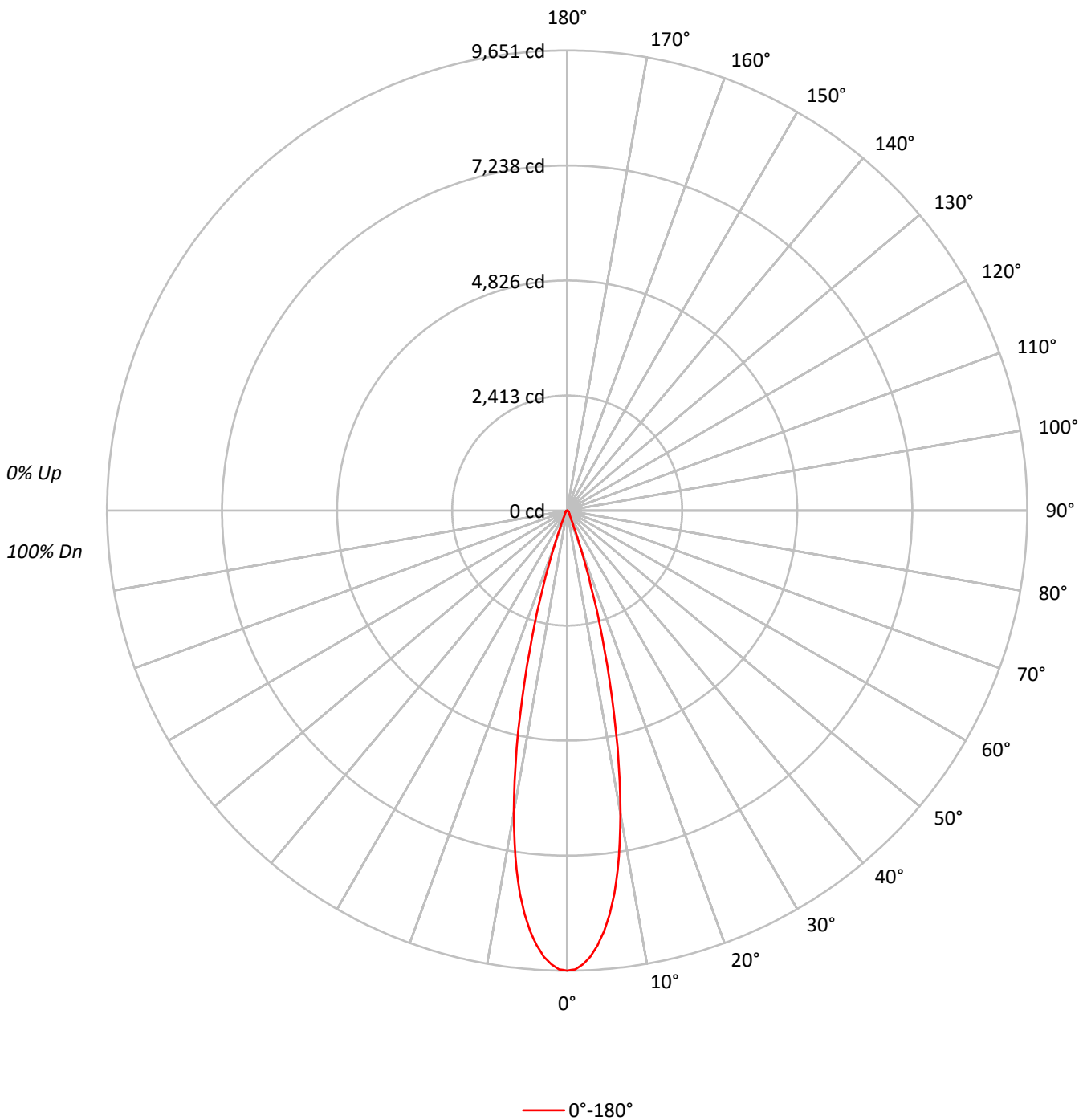
Input Watts (W): 20  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97		
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	97	95	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94		
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91		
4	105	100	96	93	104	99	95	93	97	94	92	95	93	91	93	91	90	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89		
5	102	97	93	90	101	96	92	89	94	91	89	93	90	88	91	89	87	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86		
6	100	94	90	87	98	93	89	87	92	88	86	90	88	85	89	87	85	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84		
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82		
8	95	89	85	82	94	88	84	82	87	84	82	86	83	81	86	83	81	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80		
9	93	86	82	80	92	86	82	80	85	82	80	84	81	79	84	81	79	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78		
10	90	84	80	78	90	84	80	78	83	80	78	83	80	78	82	79	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77		

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

	0°
0°	2116344
5°	1950204
10°	1434487
15°	688585
20°	174035
25°	48729
30°	26156
35°	20238
40°	18005
45°	15195
50°	12349
55°	9366
60°	4210
65°	2750
70°	1346
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	769.2	41.8
10°-20°	833.8	45.4
20°-30°	121.2	6.6
30°-40°	48.7	2.7
40°-50°	38.0	2.1
50°-60°	20.9	1.1
60°-70°	5.7	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°	1724.2	93.8
0°-40°	1772.9	96.5
0°-60°	1831.8	99.7
0°-90°	1838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	9651	
5°	8860	769
15°	3033	834
25°	201	121
35°	76	49
45°	49	38
55°	24	21
65°	5	6
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	9651.3
1°	9623.6
2°	9524.6
3°	9369.0
4°	9137.8
5°	8859.8
6°	8512.4
7°	8104.4
8°	7618.6
9°	7049.7
10°	6442.4
11°	5776.5
12°	5084.0
13°	4377.7
14°	3692.6
15°	3033.2
17.5°	1648.2
20°	745.8
22.5°	350.5
25°	201.4
27.5°	136.4
30°	103.3
32.5°	85.2
35°	75.6
37.5°	69.3
40°	62.9
42.5°	56.5
45°	49.0
47.5°	42.6
50°	36.2
52.5°	29.8
55°	24.5
57.5°	17.0
60°	9.6
62.5°	7.5
65°	5.3
67.5°	4.3
70°	2.1
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



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CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0.0}$

(END OF REPORT)