

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: P328550

Luminaire Tested: **L815SML18SP927MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SML18SP927MB
Description: Small, 1800lm, 15D, 2700K, black finish
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

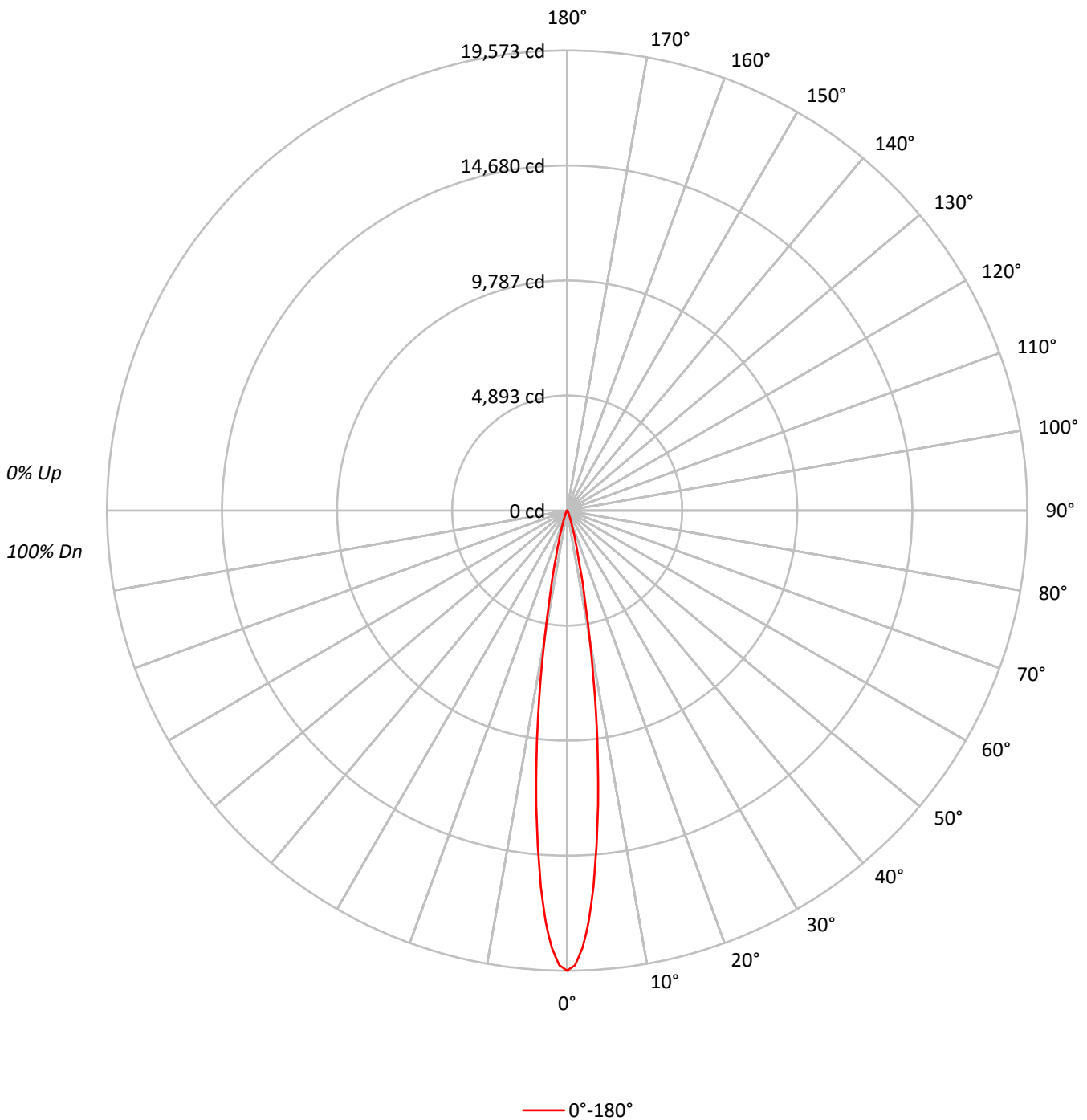
Lumens per Lamp: N/A
Luminaire Lumens: 1722.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.26 / 0.26 / 0.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	116	114	112	111	113	112	110	109	108	107	106	104	103	102	101	100	99	98	98	98	98
2	112	109	107	105	110	108	105	103	105	103	101	102	100	99	99	98	97	96	96	96	96
3	110	106	103	100	108	104	102	99	102	100	98	100	98	96	98	96	95	94	94	94	94
4	107	103	99	97	106	102	98	96	100	97	95	98	96	94	96	94	93	92	92	92	92
5	105	100	96	94	103	99	96	94	98	95	93	96	94	92	95	93	91	90	90	90	90
6	103	98	94	92	102	97	94	91	96	93	91	94	92	90	93	91	90	89	89	89	89
7	101	95	92	90	100	95	92	89	94	91	89	93	90	89	92	90	88	87	87	87	87
8	99	94	90	88	98	93	90	88	92	90	88	92	89	87	91	89	87	86	86	86	86
9	97	92	89	87	97	92	89	86	91	88	86	90	88	86	90	87	86	85	85	85	85
10	96	90	87	85	95	90	87	85	90	87	85	89	87	85	88	86	85	84	84	84	84

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4292025
5°	3149100
10°	1228813
15°	312215
20°	94602
25°	38518
30°	22738
35°	16276
40°	13253
45°	11660
50°	10848
55°	9978
60°	3815
65°	3009
70°	1859
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.8	62.4
10°-20°	468.6	27.2
20°-30°	84.4	4.9
30°-40°	39.3	2.3
40°-50°	29.3	1.7
50°-60°	21.3	1.2
60°-70°	5.0	0.3
70°-80°	0.4	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°	1626.8	94.5
0°-40°	1666.1	96.8
0°-60°	1716.6	99.7
0°-90°	1722.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1722.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	19573	
5°	14306	###
15°	1375	469
25°	159	84
35°	61	39
45°	38	29
55°	26	21
65°	6	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	19573.2
1°	19341.6
2°	18614.8
3°	17517.5
4°	16043.7
5°	14306.4
6°	12586.5
7°	10736.3
8°	8929.6
9°	7125.7
10°	5518.7
11°	4172.3
12°	3158.9
13°	2330.8
14°	1780.7
15°	1375.3
17.5°	726.8
20°	405.4
22.5°	237.4
25°	159.2
27.5°	118.7
30°	89.8
32.5°	72.4
35°	60.8
37.5°	52.1
40°	46.3
42.5°	40.5
45°	37.6
47.5°	34.7
50°	31.8
52.5°	29.0
55°	26.1
57.5°	20.3
60°	8.7
62.5°	5.8
65°	5.8
67.5°	2.9
70°	2.9
72.5°	0.0
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)