

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: P328551

Luminaire Tested: **L815SML18SP930MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328551
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: L815SML18SP930MB
Description: Small, 1800lm, 15D, 3000K, black finish
Light Source: (1) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

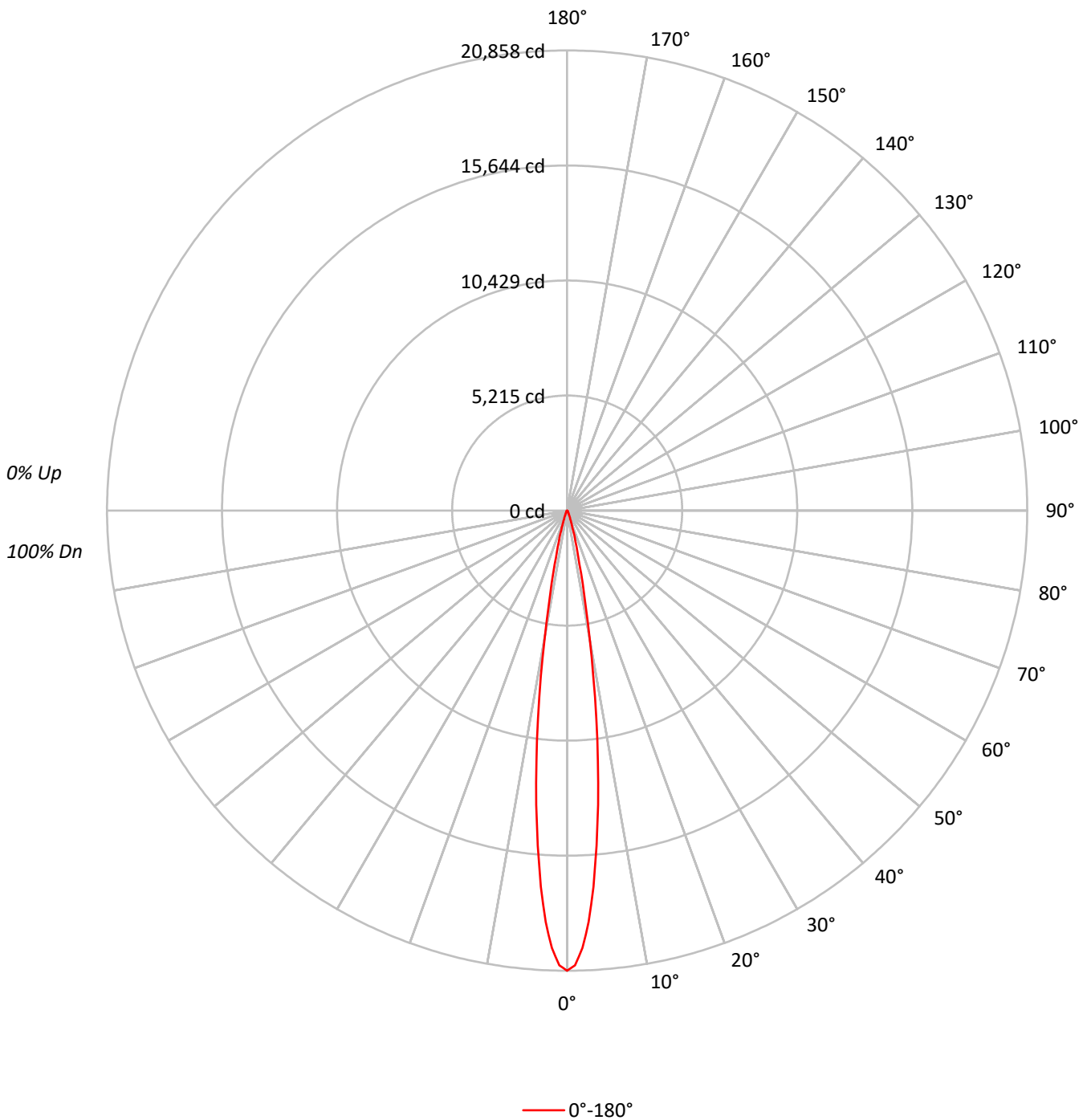
Lumens per Lamp: N/A
Luminaire Lumens: 1835.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 0.26 / 0.26 / 0.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

0°	
0°	4573691
5°	3355747
10°	1309461
15°	332715
20°	100809
25°	41059
30°	24206
35°	17346
40°	14141
45°	12435
50°	11565
55°	10628
60°	4079
65°	3217
70°	1988
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1144.3	62.4
10°-20°	499.3	27.2
20°-30°	90.0	4.9
30°-40°	41.8	2.3
40°-50°	31.2	1.7
50°-60°	22.7	1.2
60°-70°	5.3	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°	1733.6	94.5
0°-40°	1775.4	96.8
0°-60°	1829.3	99.7
0°-90°	1835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1835.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	20858	
5°	15245	###
15°	1466	499
25°	170	90
35°	65	42
45°	40	31
55°	28	23
65°	6	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	20857.7
1°	20610.8
2°	19836.4
3°	18667.0
4°	17096.5
5°	15245.2
6°	13412.5
7°	11440.9
8°	9515.5
9°	7593.3
10°	5880.9
11°	4446.1
12°	3366.2
13°	2483.8
14°	1897.6
15°	1465.6
17.5°	774.4
20°	432.0
22.5°	253.0
25°	169.7
27.5°	126.5
30°	95.6
32.5°	77.1
35°	64.8
37.5°	55.5
40°	49.4
42.5°	43.2
45°	40.1
47.5°	37.0
50°	33.9
52.5°	30.9
55°	27.8
57.5°	21.6
60°	9.3
62.5°	6.2
65°	6.2
67.5°	3.1
70°	3.1
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)