

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: P328553

Luminaire Tested: **L815SML18SP940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328553
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: L815SML18SP940MB
Description: Small, 1800lm, 15D, 4000K, black finish
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

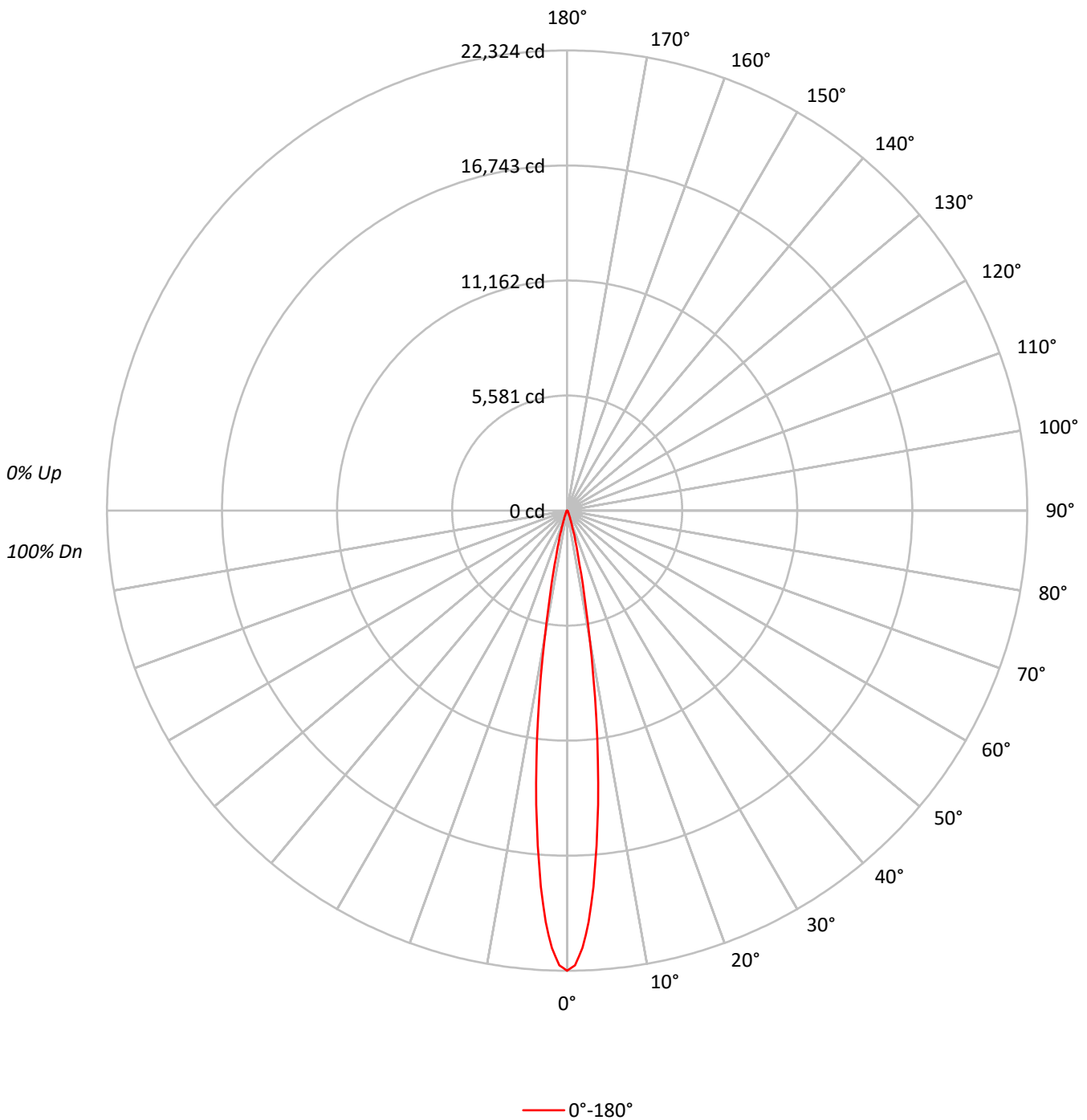
Lumens per Lamp: N/A
Luminaire Lumens: 1963.9 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 0.26 / 0.26 / 0.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	4895222
5°	3591670
10°	1401510
15°	356097
20°	107879
25°	43938
30°	25928
35°	18551
40°	15114
45°	13304
50°	12383
55°	11354
60°	4342
65°	3424
70°	2116
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1224.7	62.4
10°-20°	534.4	27.2
20°-30°	96.3	4.9
30°-40°	44.8	2.3
40°-50°	33.4	1.7
50°-60°	24.2	1.2
60°-70°	5.7	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°	1855.4	94.5
0°-40°	1900.2	96.8
0°-60°	1957.8	99.7
0°-90°	1963.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1963.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	22324	
5°	16317	###
15°	1569	534
25°	182	96
35°	69	45
45°	43	33
55°	30	24
65°	7	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	22324.0
1°	22059.8
2°	21230.9
3°	19979.3
4°	18298.4
5°	16317.0
6°	14355.4
7°	12245.2
8°	10184.5
9°	8127.1
10°	6294.3
11°	4758.7
12°	3602.9
13°	2658.4
14°	2031.0
15°	1568.6
17.5°	828.9
20°	462.3
22.5°	270.8
25°	181.6
27.5°	135.4
30°	102.4
32.5°	82.6
35°	69.3
37.5°	59.4
40°	52.8
42.5°	46.2
45°	42.9
47.5°	39.6
50°	36.3
52.5°	33.0
55°	29.7
57.5°	23.1
60°	9.9
62.5°	6.6
65°	6.6
67.5°	3.3
70°	3.3
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)