

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: P328517

Luminaire Tested: **L815SML05SP940MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328517  
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: L815SML05SP940MB  
Description: Small, 500lm, 15D, 4000K, black finish  
Light Source: (1) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 679.0 lumens  
Efficiency: N/A  
Efficacy: 99.9 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

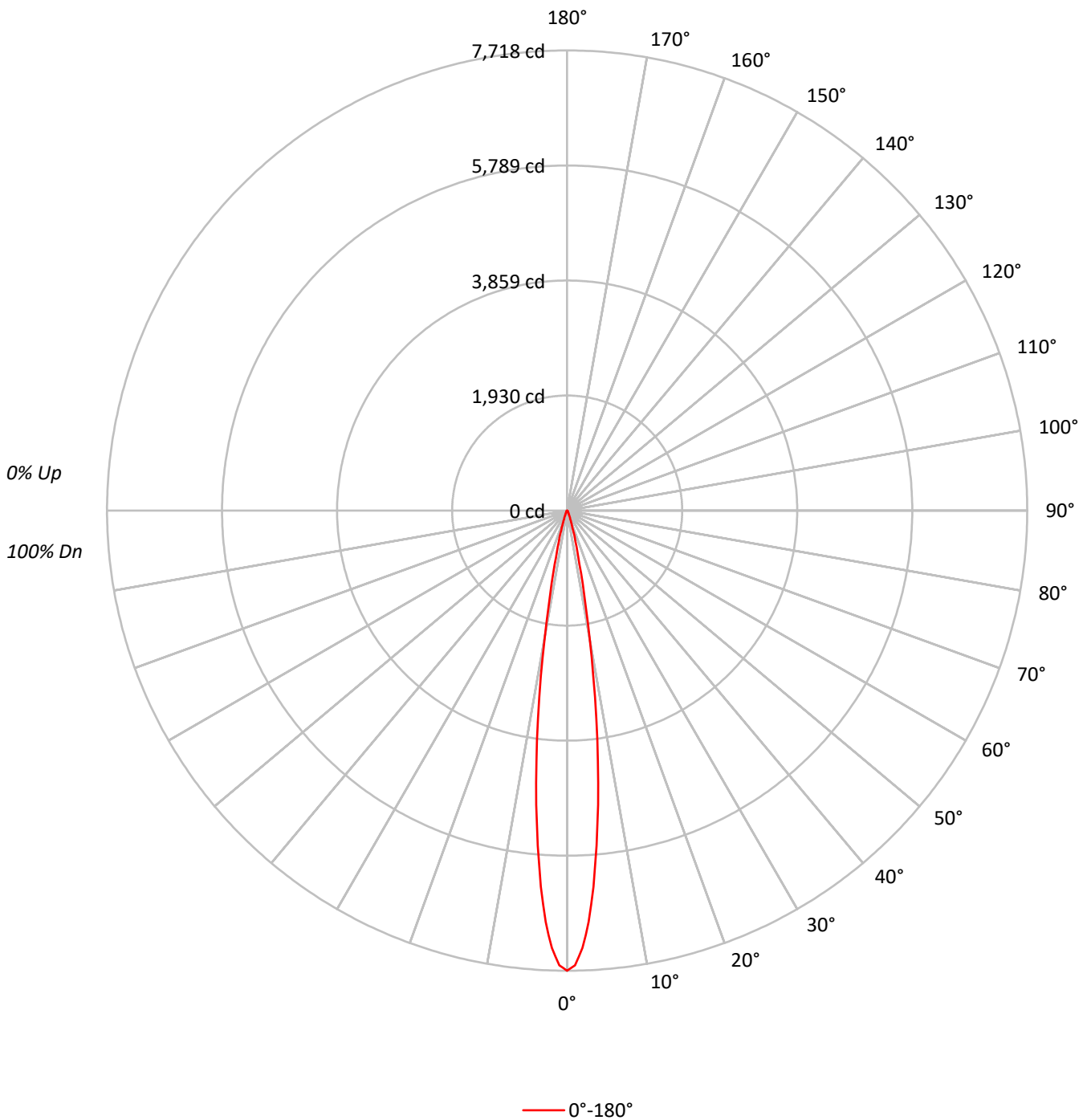
Input Watts (W): 6.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	1692386
5°	1241709
10°	484538
15°	123111
20°	37290
25°	15194
30°	8963
35°	6425
40°	5238
45°	4590
50°	4298
55°	3938
60°	1491
65°	1193
70°	705
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.4	62.4
10°-20°	184.8	27.2
20°-30°	33.3	4.9
30°-40°	15.5	2.3
40°-50°	11.6	1.7
50°-60°	8.4	1.2
60°-70°	2.0	0.3
70°-80°	0.1	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°	641.5	94.5
0°-40°	657.0	96.8
0°-60°	676.9	99.7
0°-90°	679.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	679.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	7718	
5°	5641	423
15°	542	185
25°	63	33
35°	24	15
45°	15	12
55°	10	8
65°	2	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	7717.9
1°	7626.6
2°	7340.0
3°	6907.3
4°	6326.2
5°	5641.1
6°	4963.0
7°	4233.4
8°	3521.0
9°	2809.7
10°	2176.1
11°	1645.2
12°	1245.6
13°	919.1
14°	702.1
15°	542.3
17.5°	286.6
20°	159.8
22.5°	93.6
25°	62.8
27.5°	46.8
30°	35.4
32.5°	28.5
35°	24.0
37.5°	20.6
40°	18.3
42.5°	16.0
45°	14.8
47.5°	13.7
50°	12.6
52.5°	11.4
55°	10.3
57.5°	8.0
60°	3.4
62.5°	2.3
65°	2.3
67.5°	1.1
70°	1.1
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)