

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: P328533

Luminaire Tested: **L815SML10NP940MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SML10NP940MB  
Description: Small, 1000lm, 8D, 4000K, black finish  
Light Source: (1) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 918.0 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 0.15 / 0.15 / 0.15  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

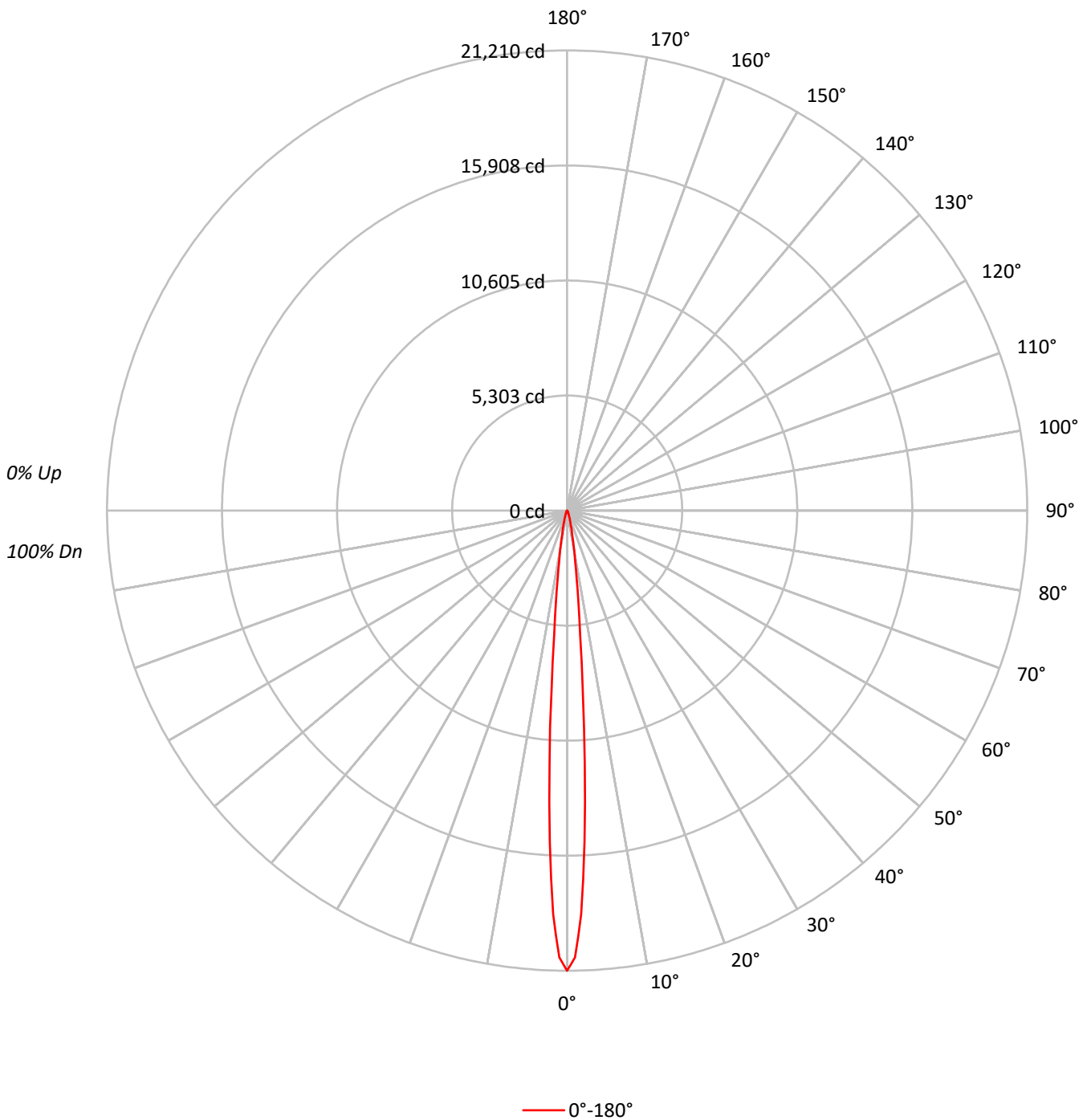
Input Watts (W): 11.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	4650855
5°	1817297
10°	414443
15°	134121
20°	56145
25°	29808
30°	17319
35°	11912
40°	9131
45°	7784
50°	6618
55°	5658
60°	2982
65°	1764
70°	705
75°	0
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	605.1	65.9
10°-20°	188.3	20.5
20°-30°	60.0	6.5
30°-40°	28.8	3.1
40°-50°	19.4	2.1
50°-60°	12.5	1.4
60°-70°	3.5	0.4
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°	853.3	93.0
0°-40°	882.1	96.1
0°-60°	914.0	99.6
0°-90°	918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	918.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	21210	
5°	8256	605
15°	591	188
25°	123	60
35°	44	29
45°	25	19
55°	15	13
65°	3	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	21209.6
1°	20600.5
2°	18613.8
3°	15309.8
4°	11676.3
5°	8256.0
6°	5767.4
7°	4206.1
8°	3114.7
9°	2417.8
10°	1861.3
11°	1455.3
12°	1135.9
13°	907.8
14°	731.0
15°	590.8
17.5°	366.1
20°	240.6
22.5°	168.8
25°	123.2
27.5°	91.2
30°	68.4
32.5°	53.6
35°	44.5
37.5°	37.6
40°	31.9
42.5°	28.5
45°	25.1
47.5°	21.7
50°	19.4
52.5°	17.1
55°	14.8
57.5°	11.4
60°	6.8
62.5°	4.6
65°	3.4
67.5°	2.3
70°	1.1
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)