

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: P328542

Luminaire Tested: **L815SML18FL927MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P328542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L815SML18FL927MB  
Description: Small, 1800lm, 45D, 2700K, black finish  
Light Source: (1) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

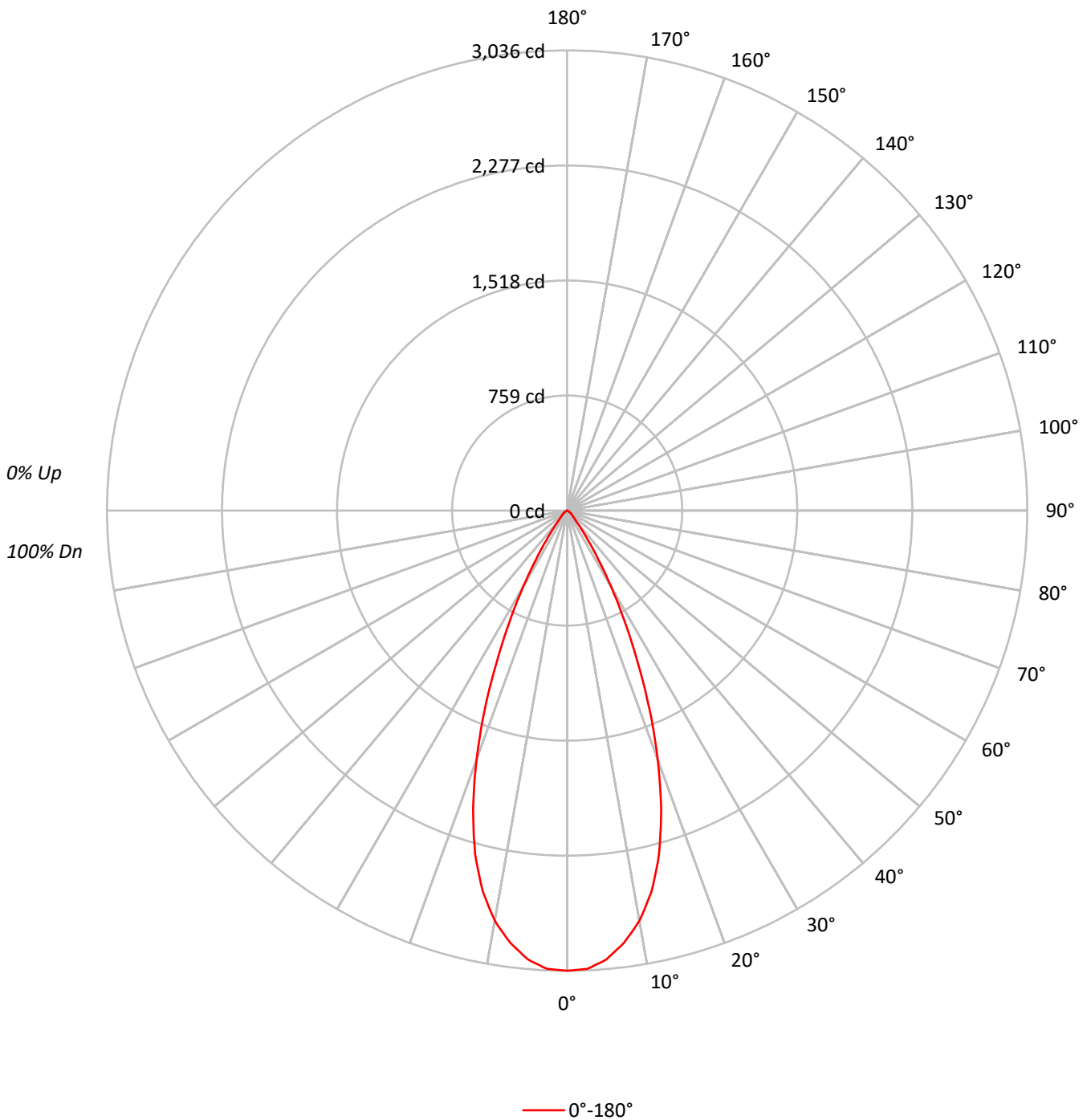
Lumens per Lamp: N/A  
Luminaire Lumens: 1665.0 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 0.71 / 0.68  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct

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	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	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	91	103	97	93	90	95	91	89		93	90	87		90	88	86	85
4	100	93	88	85	98	92	88	84	90	86	83		88	85	82		86	84	81	80
5	96	88	83	80	94	88	83	79	86	82	78		84	81	78		83	80	77	76
6	92	84	79	75	90	83	78	75	82	77	74		81	77	74		79	76	73	72
7	88	80	75	71	87	79	74	71	78	74	70		77	73	70		76	72	70	68
8	85	76	71	67	83	76	71	67	75	70	67		74	70	67		73	69	66	65
9	81	73	68	64	80	72	67	64	71	67	64		71	67	64		70	66	63	62
10	78	70	65	61	77	69	64	61	69	64	61		68	64	61		67	63	61	59

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

	0°
0°	665670
5°	654346
10°	611812
15°	532285
20°	407855
25°	264427
30°	146833
35°	64782
40°	27480
45°	17676
50°	13304
55°	9558
60°	6140
65°	3632
70°	1923
75°	847
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.4	16.6
10°-20°	639.6	38.4
20°-30°	503.2	30.2
30°-40°	168.3	10.1
40°-50°	46.6	2.8
50°-60°	22.3	1.3
60°-70°	7.5	0.5
70°-80°	1.2	0.1
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°	1419.2	85.2
0°-40°	1587.4	95.3
0°-60°	1656.3	99.5
0°-90°	1665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1665.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3036	
5°	2973	276
15°	2345	640
25°	1093	503
35°	242	168
45°	57	47
55°	25	22
65°	7	8
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3035.7
2.5°	3026.7
5°	2972.7
7.5°	2875.7
10°	2747.7
12.5°	2573.7
15°	2344.7
17.5°	2063.8
20°	1747.8
22.5°	1418.8
25°	1092.9
27.5°	811.9
30°	579.9
32.5°	384.0
35°	242.0
37.5°	145.0
40°	96.0
42.5°	72.0
45°	57.0
47.5°	47.0
50°	39.0
52.5°	31.0
55°	25.0
57.5°	18.0
60°	14.0
62.5°	10.0
65°	7.0
67.5°	5.0
70°	3.0
72.5°	2.0
75°	1.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)