

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: P236646

Luminaire Tested: **L81111SP9027MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-557-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L81111SP9027MB  
Description: HALO, TRACK-MINI, 15D BEAM  
Light Source: (1) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

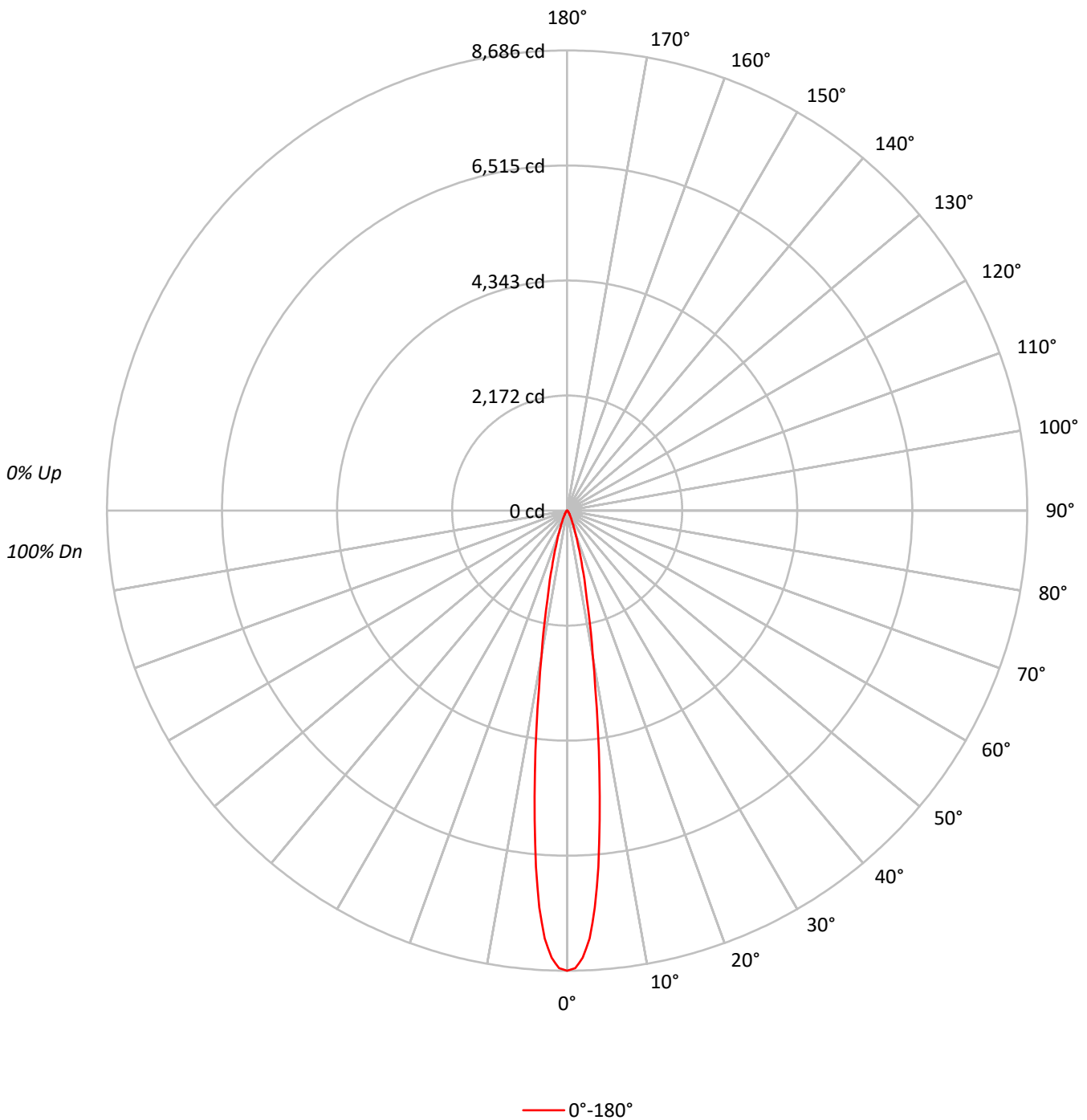
Lumens per Lamp: N/A  
Luminaire Lumens: 1019.1 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.28  
Luminous Opening: Circular (Dia: 0.19' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.5  
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	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	97	95	94
3	108	104	100	98	106	102	99	97	100	97	95	98	96	94	96	94	92	91
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86
6	100	94	90	87	99	93	90	87	92	89	86	91	88	86	90	87	85	84
7	97	91	87	85	96	91	87	85	90	86	84	89	86	84	88	85	83	82
8	95	89	85	83	94	89	85	82	88	84	82	87	84	82	86	83	82	81
9	93	87	83	81	92	87	83	81	86	83	80	85	82	80	84	82	80	79
10	91	85	81	79	90	85	81	79	84	81	79	83	80	78	83	80	78	77

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

	0°
0°	3386044
5°	2641498
10°	1096612
15°	443660
20°	190209
25°	91188
30°	50956
35°	29696
40°	18066
45°	12680
50°	9885
55°	7816
60°	6003
65°	5350
70°	4331
75°	4368
80°	2245
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	502.3	49.3
10°-20°	332.3	32.6
20°-30°	106.1	10.4
30°-40°	40.9	4.0
40°-50°	18.4	1.8
50°-60°	10.4	1.0
60°-70°	5.7	0.6
70°-80°	2.9	0.3
80°-90°	0.1	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°	940.7	92.3
0°-40°	981.6	96.3
0°-60°	1010.3	99.1
0°-90°	1019.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1019.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	8686	
5°	6750	502
15°	1099	332
25°	212	106
35°	62	41
45°	23	18
55°	12	10
65°	6	6
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	8685.9
1°	8639.8
2°	8443.2
3°	8087.3
4°	7508.9
5°	6750.2
6°	5873.4
7°	4992.8
8°	4158.3
9°	3403.4
10°	2770.3
12.5°	1716.1
15°	1099.3
17.5°	707.0
20°	458.5
22.5°	305.0
25°	212.0
27.5°	152.5
30°	113.2
32.5°	83.5
35°	62.4
37.5°	46.0
40°	35.5
42.5°	27.8
45°	23.0
47.5°	19.2
50°	16.3
52.5°	13.4
55°	11.5
57.5°	9.6
60°	7.7
62.5°	6.7
65°	5.8
67.5°	4.8
70°	3.8
72.5°	3.8
75°	2.9
77.5°	1.9
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)