

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: P236655

Luminaire Tested: **L81211NF9030MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-557-4)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L81211NF9030MB  
Description: HALO, TRACK-MINI, CYLINDER, 22D BEAM  
Light Source: (1) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

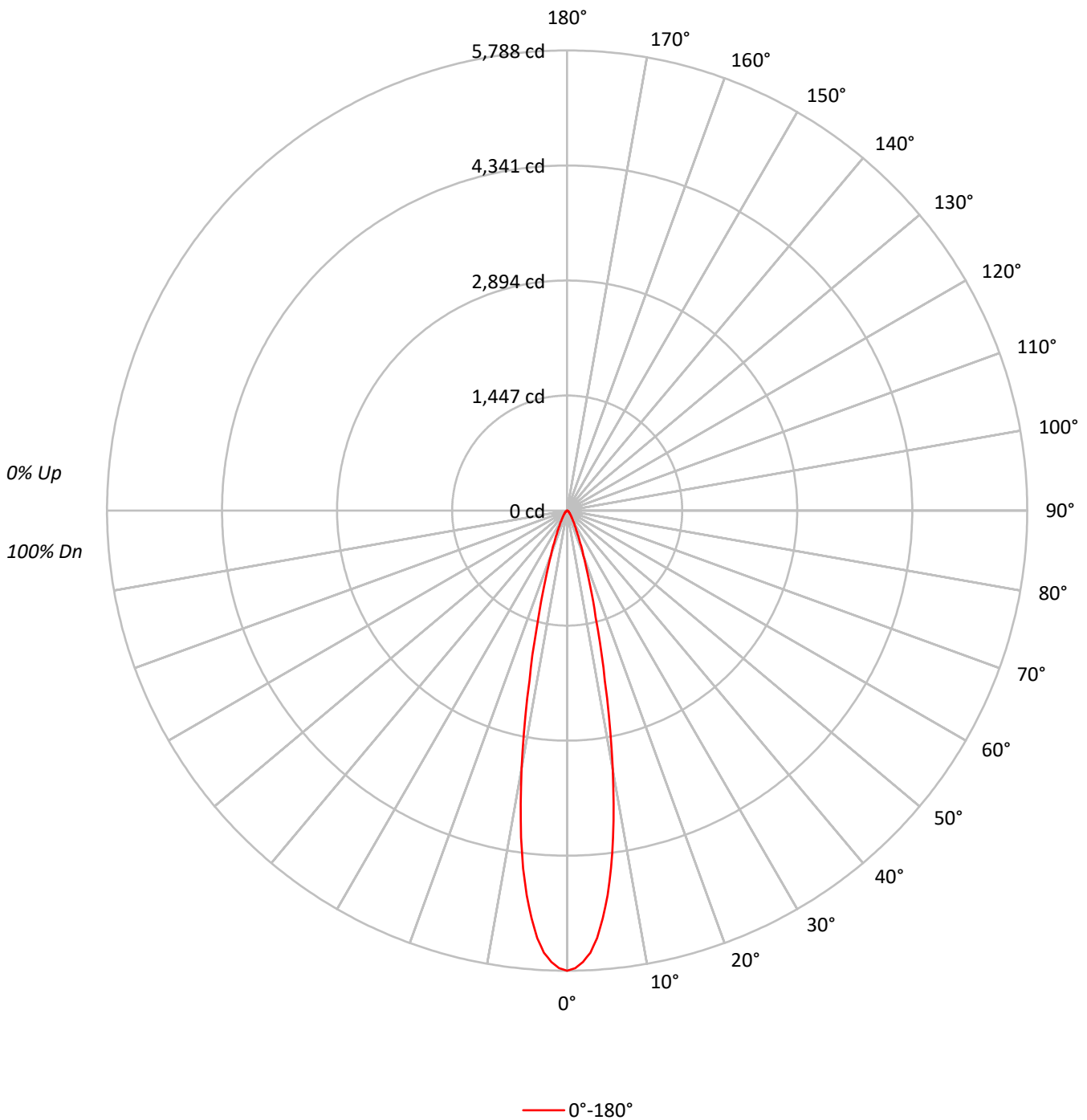
Lumens per Lamp: N/A  
Luminaire Lumens: 1104.7 lumens  
Efficiency: N/A  
Efficacy: 71.3 lumens/watt  
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.36  
Luminous Opening: Circular (Dia: 0.19' x H: 0')  
CIE Type: Direct

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	109	112	110	109	107	106	105	104		103	102	101		99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93		96	94	92		94	92	90	89
4	103	98	94	91	102	97	93	90	95	92	89		93	90	88		91	89	87	86
5	100	94	90	87	99	93	89	86	92	88	86		90	87	85		89	86	84	83
6	97	91	86	83	96	90	86	83	89	85	83		87	84	82		86	84	82	80
7	94	88	83	80	93	87	83	80	86	82	80		85	82	79		84	81	79	78
8	92	85	81	78	91	85	81	78	84	80	77		83	80	77		82	79	77	76
9	89	83	78	76	89	82	78	76	81	78	75		81	77	75		80	77	75	74
10	87	80	76	74	86	80	76	74	79	76	73		79	75	73		78	75	73	72

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

	0°
0°	2256505
5°	2014836
10°	1305500
15°	559247
20°	246214
25°	118458
30°	66666
35°	42307
40°	29058
45°	21170
50°	16617
55°	12709
60°	10292
65°	8117
70°	7523
75°	4970
80°	2469
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	431.6	39.1
10°-20°	416.2	37.7
20°-30°	138.0	12.5
30°-40°	57.8	5.2
40°-50°	30.8	2.8
50°-60°	17.2	1.6
60°-70°	9.2	0.8
70°-80°	3.6	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°	985.9	89.2
0°-40°	1043.6	94.5
0°-60°	1091.7	98.8
0°-90°	1104.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1104.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5788	
5°	5149	432
15°	1386	416
25°	275	138
35°	89	58
45°	38	31
55°	19	17
65°	9	9
75°	3	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5788.4
1°	5755.5
2°	5682.0
3°	5567.9
4°	5391.3
5°	5148.8
6°	4864.7
7°	4534.4
8°	4155.9
9°	3734.6
10°	3298.0
12.5°	2191.0
15°	1385.7
17.5°	893.1
20°	593.5
22.5°	399.4
25°	275.4
27.5°	197.5
30°	148.1
32.5°	113.0
35°	88.9
37.5°	70.2
40°	57.1
42.5°	47.2
45°	38.4
47.5°	32.9
50°	27.4
52.5°	23.0
55°	18.7
57.5°	15.4
60°	13.2
62.5°	11.0
65°	8.8
67.5°	7.7
70°	6.6
72.5°	4.4
75°	3.3
77.5°	2.2
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)