

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: P236656

Luminaire Tested: **L81211NF9035MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236656  
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: L81211NF9035MB  
Description: HALO, TRACK-MINI, CYLINDER, 22D BEAM  
Light Source: (1) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

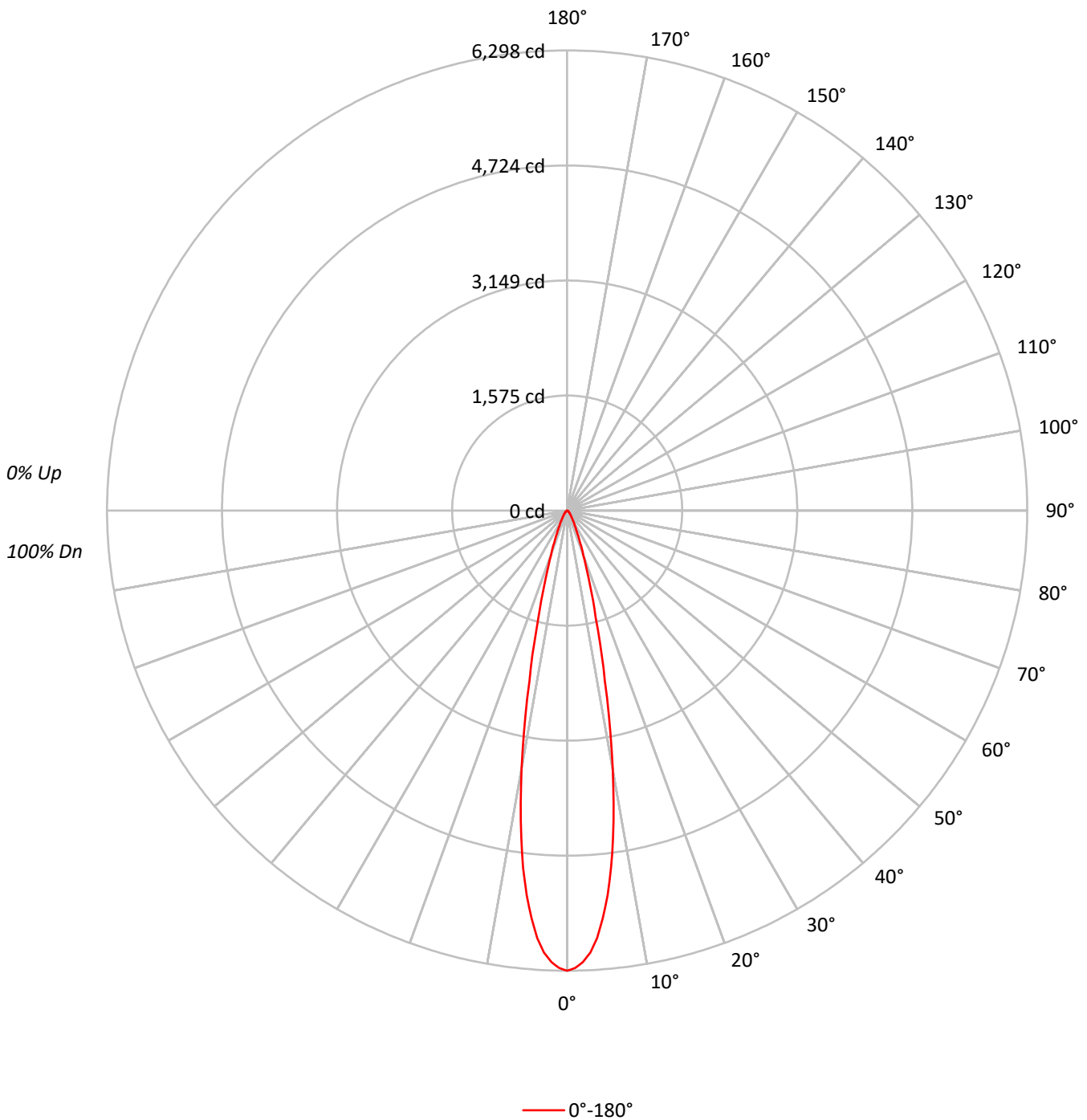
Lumens per Lamp: N/A  
Luminaire Lumens: 1201.8 lumens  
Efficiency: N/A  
Efficacy: 77.5 lumens/watt  
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.36  
Luminous Opening: Circular (Dia: 0.19' x H: 0')  
CIE Type: Direct

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	83	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°	2455086
5°	2192143
10°	1420375
15°	608443
20°	267911
25°	128868
30°	72517
35°	46019
40°	31602
45°	23045
50°	18073
55°	13797
60°	11149
65°	8763
70°	8207
75°	5422
80°	2694
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.6	39.1
10°-20°	452.8	37.7
20°-30°	150.2	12.5
30°-40°	62.8	5.2
40°-50°	33.5	2.8
50°-60°	18.7	1.6
60°-70°	10.0	0.8
70°-80°	3.9	0.3
80°-90°	0.2	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°	1072.6	89.2
0°-40°	1135.4	94.5
0°-60°	1187.7	98.8
0°-90°	1201.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6298	
5°	5602	470
15°	1508	453
25°	300	150
35°	97	63
45°	42	34
55°	20	19
65°	10	10
75°	4	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6297.8
1°	6262.0
2°	6182.0
3°	6057.9
4°	5865.7
5°	5601.9
6°	5292.7
7°	4933.4
8°	4521.6
9°	4063.3
10°	3588.2
12.5°	2383.8
15°	1507.6
17.5°	971.6
20°	645.8
22.5°	434.5
25°	299.6
27.5°	214.9
30°	161.1
32.5°	122.9
35°	96.7
37.5°	76.4
40°	62.1
42.5°	51.3
45°	41.8
47.5°	35.8
50°	29.8
52.5°	25.1
55°	20.3
57.5°	16.7
60°	14.3
62.5°	11.9
65°	9.5
67.5°	8.4
70°	7.2
72.5°	4.8
75°	3.6
77.5°	2.4
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)