

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: P236644

Luminaire Tested: **L81111NF9035MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P236644  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-557-3)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L81111NF9035MB  
Description: HALO, TRACK-MINI, 22D BEAM  
Light Source: (1) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

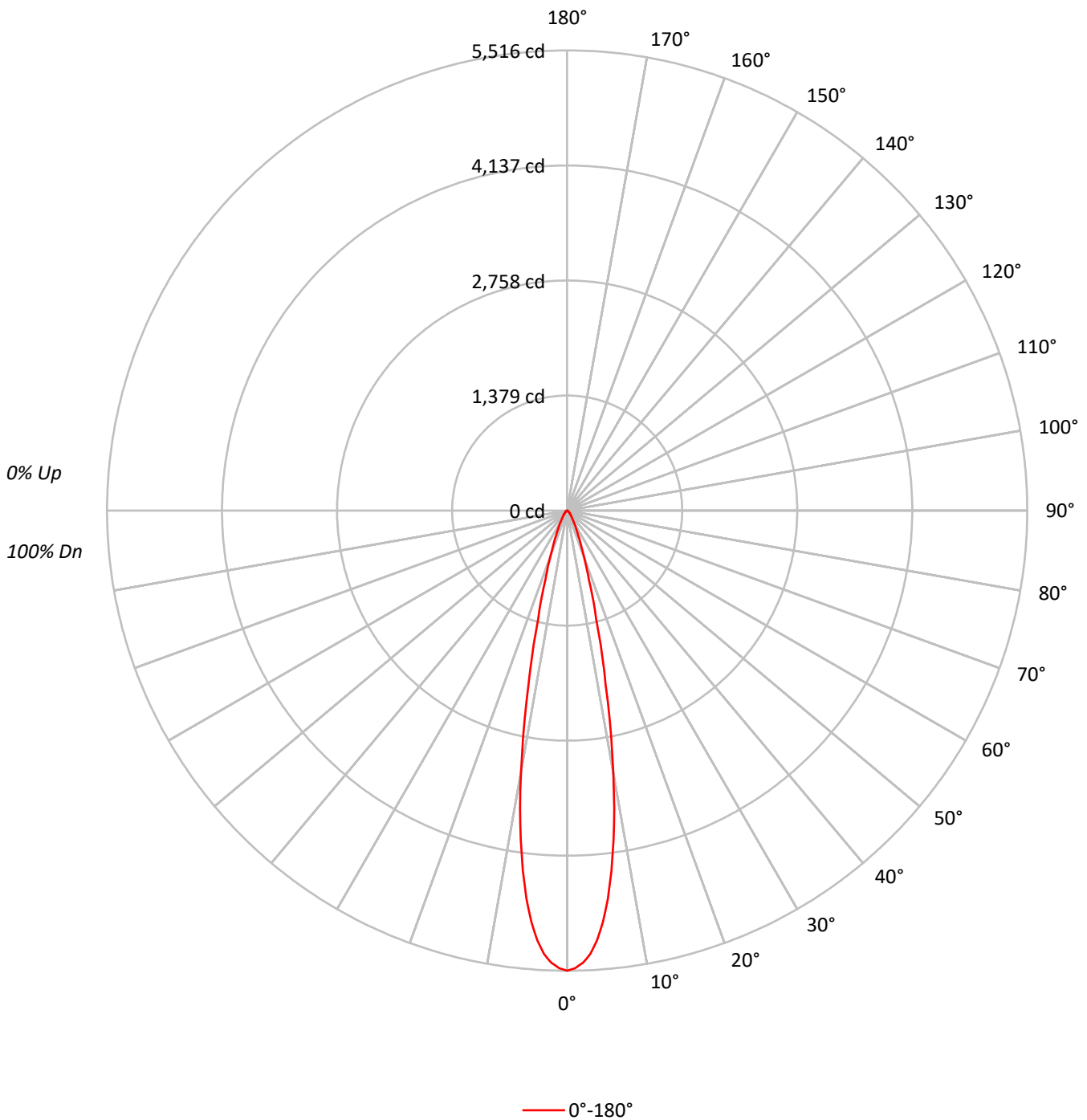
Lumens per Lamp: N/A  
Luminaire Lumens: 1081.4 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.36  
Luminous Opening: Circular (Dia: 0.19' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	2150237
5°	1935358
10°	1259701
15°	540843
20°	243683
25°	123104
30°	70492
35°	44211
40°	29668
45°	21446
50°	15708
55°	12506
60°	10136
65°	8947
70°	7409
75°	4820
80°	2469
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.5	38.3
10°-20°	404.3	37.4
20°-30°	141.4	13.1
30°-40°	60.6	5.6
40°-50°	30.6	2.8
50°-60°	16.6	1.5
60°-70°	9.4	0.9
70°-80°	3.8	0.4
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°	960.3	88.8
0°-40°	1020.9	94.4
0°-60°	1068.1	98.8
0°-90°	1081.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5516	
5°	4946	415
15°	1340	404
25°	286	141
35°	93	61
45°	39	31
55°	18	17
65°	10	9
75°	3	4
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5515.8
1°	5484.5
2°	5424.0
3°	5321.5
4°	5161.6
5°	4945.7
6°	4677.9
7°	4349.6
8°	3988.9
9°	3609.9
10°	3182.3
12.5°	2134.8
15°	1340.1
17.5°	869.3
20°	587.4
22.5°	402.8
25°	286.2
27.5°	209.5
30°	156.6
32.5°	119.9
35°	92.9
37.5°	73.4
40°	58.3
42.5°	47.5
45°	38.9
47.5°	31.3
50°	25.9
52.5°	21.6
55°	18.4
57.5°	15.1
60°	13.0
62.5°	10.8
65°	9.7
67.5°	7.6
70°	6.5
72.5°	5.4
75°	3.2
77.5°	2.2
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)