

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: P285920

Luminaire Tested: **L81208NF9027MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-134-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L81208NF9027MB  
Description: HALO, TRACK-MINI, 22D BEAM  
Light Source: (1) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

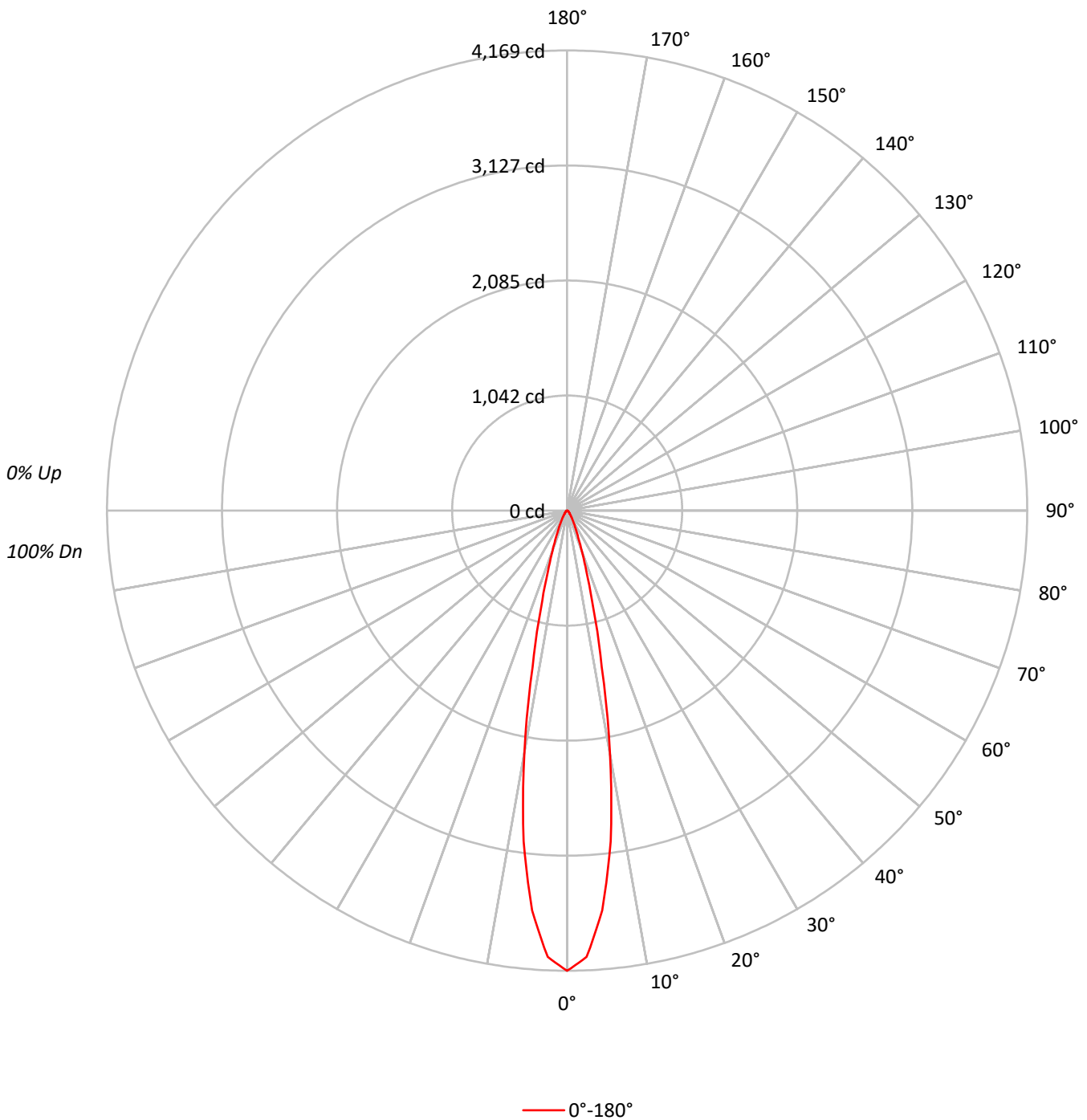
Lumens per Lamp: N/A  
Luminaire Lumens: 740.5 lumens  
Efficiency: N/A  
Efficacy: 71.2 lumens/watt  
Spacing Criteria (0/90/45): 0.36 / 0.36 / 0.35  
Luminous Opening: Circular (Dia: 0.19' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.4  
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	113	111	109	107	107	105	104		103	102	101		100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98		100	98	96		97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94		97	94	92		94	93	91	90
4	104	98	94	91	102	97	94	91	95	92	90		94	91	89		92	90	88	87
5	101	95	91	88	99	94	90	87	92	89	86		91	88	86		89	87	85	84
6	98	92	87	84	97	91	87	84	90	86	84		88	85	83		87	85	83	81
7	95	89	84	82	94	88	84	81	87	83	81		86	83	81		85	82	80	79
8	93	86	82	79	92	86	82	79	85	81	79		84	81	78		83	80	78	77
9	90	84	80	77	89	83	79	77	82	79	76		82	79	76		81	78	76	75
10	88	81	77	75	87	81	77	75	80	77	75		80	77	74		79	76	74	73

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

	0°
0°	1625250
5°	1422845
10°	881945
15°	367907
20°	158929
25°	79574
30°	44609
35°	27412
40°	18727
45°	14058
50°	10310
55°	7068
60°	5146
65°	3505
70°	2166
75°	1356
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.3	40.8
10°-20°	274.6	37.1
20°-30°	91.4	12.3
30°-40°	37.9	5.1
40°-50°	19.8	2.7
50°-60°	9.8	1.3
60°-70°	3.8	0.5
70°-80°	1.0	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°	668.2	90.2
0°-40°	706.1	95.4
0°-60°	735.7	99.4
0°-90°	740.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4169	
5°	3636	302
15°	912	275
25°	185	91
35°	58	38
45°	26	20
55°	10	10
65°	4	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4169.1
2.5°	4047.4
5°	3636.0
7.5°	3021.6
10°	2228.0
12.5°	1451.4
15°	911.6
17.5°	574.7
20°	383.1
22.5°	261.4
25°	185.0
27.5°	134.0
30°	99.1
32.5°	75.5
35°	57.6
37.5°	45.3
40°	36.8
42.5°	30.2
45°	25.5
47.5°	20.8
50°	17.0
52.5°	13.2
55°	10.4
57.5°	8.5
60°	6.6
62.5°	4.7
65°	3.8
67.5°	2.8
70°	1.9
72.5°	1.9
75°	0.9
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)