

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: P285916

Luminaire Tested: **L81208FL9027MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P285916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-134-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L81208FL9027MB  
Description: HALO, TRACK-MINI, 38D BEAM  
Light Source: (1) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

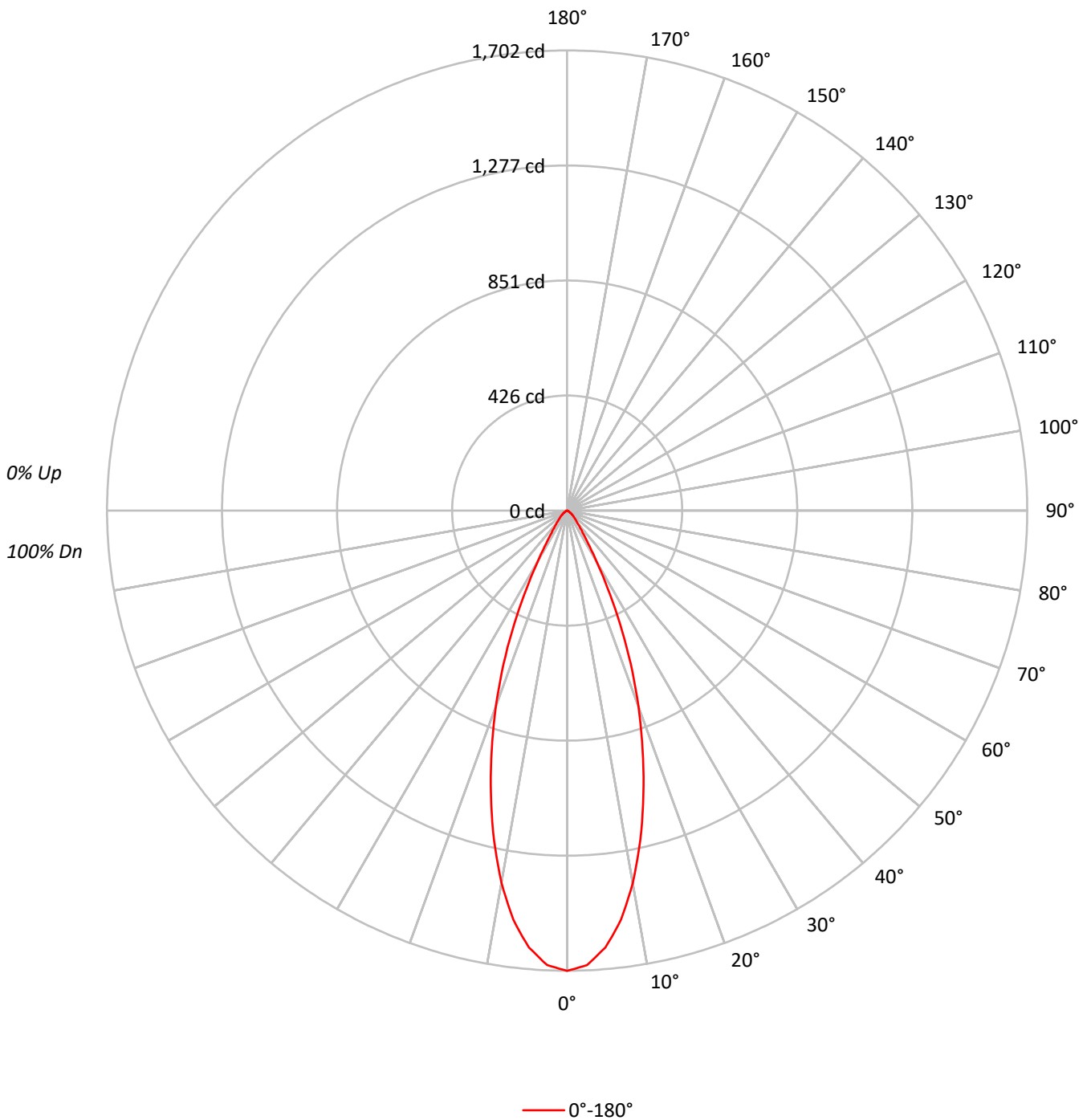
Lumens per Lamp: N/A  
Luminaire Lumens: 778.9 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.62  
Luminous Opening: Circular (Dia: 0.19' x H: 0')  
CIE Type: Direct

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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	97	93	90	95	92	89	93	90	87	90	88	86	85
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	71	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	64	71	67	64	70	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	62	68	64	61	60

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

	0°
0°	663651
5°	634802
10°	553432
15°	439866
20°	319435
25°	198635
30°	96870
35°	47970
40°	29363
45°	21060
50°	15404
55°	10671
60°	6861
65°	4520
70°	3305
75°	1506
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.7	19.0
10°-20°	299.2	38.4
20°-30°	211.0	27.1
30°-40°	69.8	9.0
40°-50°	30.3	3.9
50°-60°	14.4	1.9
60°-70°	5.3	0.7
70°-80°	1.2	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°	657.9	84.5
0°-40°	727.7	93.4
0°-60°	772.4	99.2
0°-90°	778.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	778.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1702	
5°	1622	148
15°	1090	299
25°	462	211
35°	101	70
45°	38	30
55°	16	14
65°	5	5
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1702.4
2.5°	1682.8
5°	1622.2
7.5°	1526.3
10°	1398.1
12.5°	1249.4
15°	1089.9
17.5°	927.5
20°	770.0
22.5°	613.5
25°	461.8
27.5°	321.9
30°	215.2
32.5°	143.8
35°	100.8
37.5°	75.3
40°	57.7
42.5°	47.0
45°	38.2
47.5°	31.3
50°	25.4
52.5°	20.5
55°	15.7
57.5°	11.7
60°	8.8
62.5°	6.8
65°	4.9
67.5°	3.9
70°	2.9
72.5°	2.0
75°	1.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)