

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: P286832

Luminaire Tested: **L81111FL9027MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P286832  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-111-3)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L81111FL9027MB  
Description: HALO, TRACK-MINI, BLACK, 38D BEAM  
Light Source: (1) 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

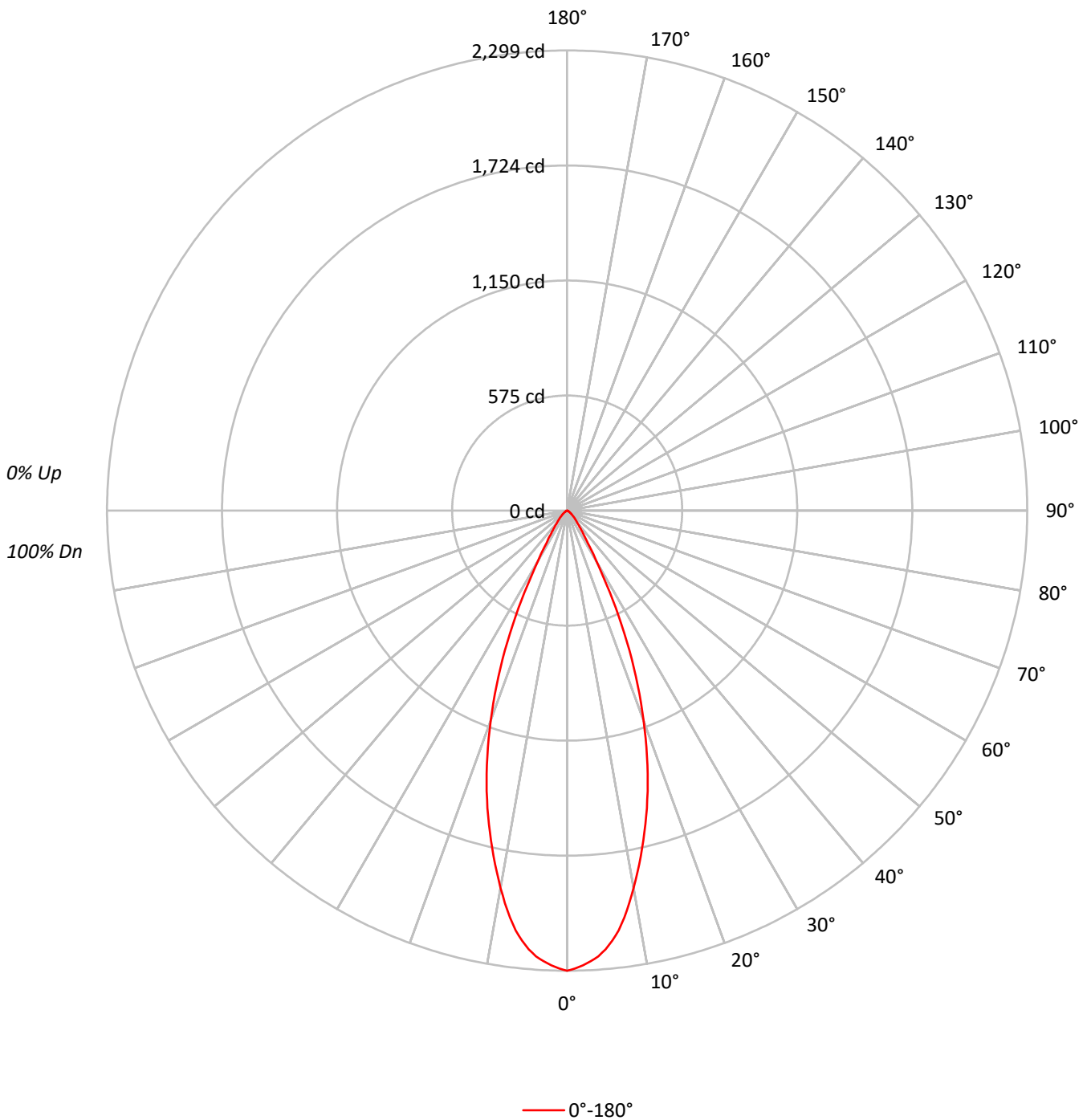
Lumens per Lamp: N/A  
Luminaire Lumens: 1082.4 lumens  
Efficiency: N/A  
Efficacy: 69.8 lumens/watt  
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.63  
Luminous Opening: Circular (Dia: 0.19' x H: 0')  
CIE Type: Direct

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	114	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	95	91	103	98	94	90	95	92	89	93	90	88	91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	85	79	76	91	84	79	75	82	78	75	81	77	74	80	77	74	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69
8	85	77	72	68	84	76	72	68	75	71	68	74	70	68	74	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	72	67	65	71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61

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

	0°
0°	896224
5°	861103
10°	757927
15°	620955
20°	462974
25°	291200
30°	131126
35°	64437
40°	39693
45°	27124
50°	18255
55°	12098
60°	7485
65°	5073
70°	3077
75°	2109
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.9	18.6
10°-20°	421.4	38.9
20°-30°	304.1	28.1
30°-40°	94.0	8.7
40°-50°	39.1	3.6
50°-60°	16.2	1.5
60°-70°	5.6	0.5
70°-80°	1.1	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°	926.5	85.6
0°-40°	1020.4	94.3
0°-60°	1075.8	99.4
0°-90°	1082.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2299	
5°	2200	201
15°	1539	421
25°	677	304
35°	135	94
45°	49	39
55°	18	16
65°	6	6
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2299.0
1°	2288.0
2°	2273.0
3°	2255.2
4°	2232.0
5°	2200.5
6°	2160.8
7°	2113.0
8°	2052.8
9°	1985.8
10°	1914.7
11°	1840.8
12°	1767.0
13°	1691.7
14°	1615.2
15°	1538.6
16°	1457.9
17°	1375.8
18°	1289.7
19°	1203.5
20°	1116.0
21°	1029.8
22°	940.9
23°	853.4
24°	764.5
25°	677.0
26°	586.7
27°	501.9
28°	422.6
29°	351.5
30°	291.3
32.5°	192.8
35°	135.4
37.5°	101.2
40°	78.0
42.5°	61.5
45°	49.2
47.5°	39.7
50°	30.1
52.5°	23.2
55°	17.8
57.5°	12.3
60°	9.6
62.5°	6.8
65°	5.5



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**CANDELA DISTRIBUTION (continued):**

	0°
67.5°	4.1
70°	2.7
72.5°	1.4
75°	1.4
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)