

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: P286847

Luminaire Tested: **L81211FL9030MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P286847  
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: L81211FL9030MB  
Description: HALO, TRACK-MINI, BLACK, 38D BEAM  
Light Source: (1) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

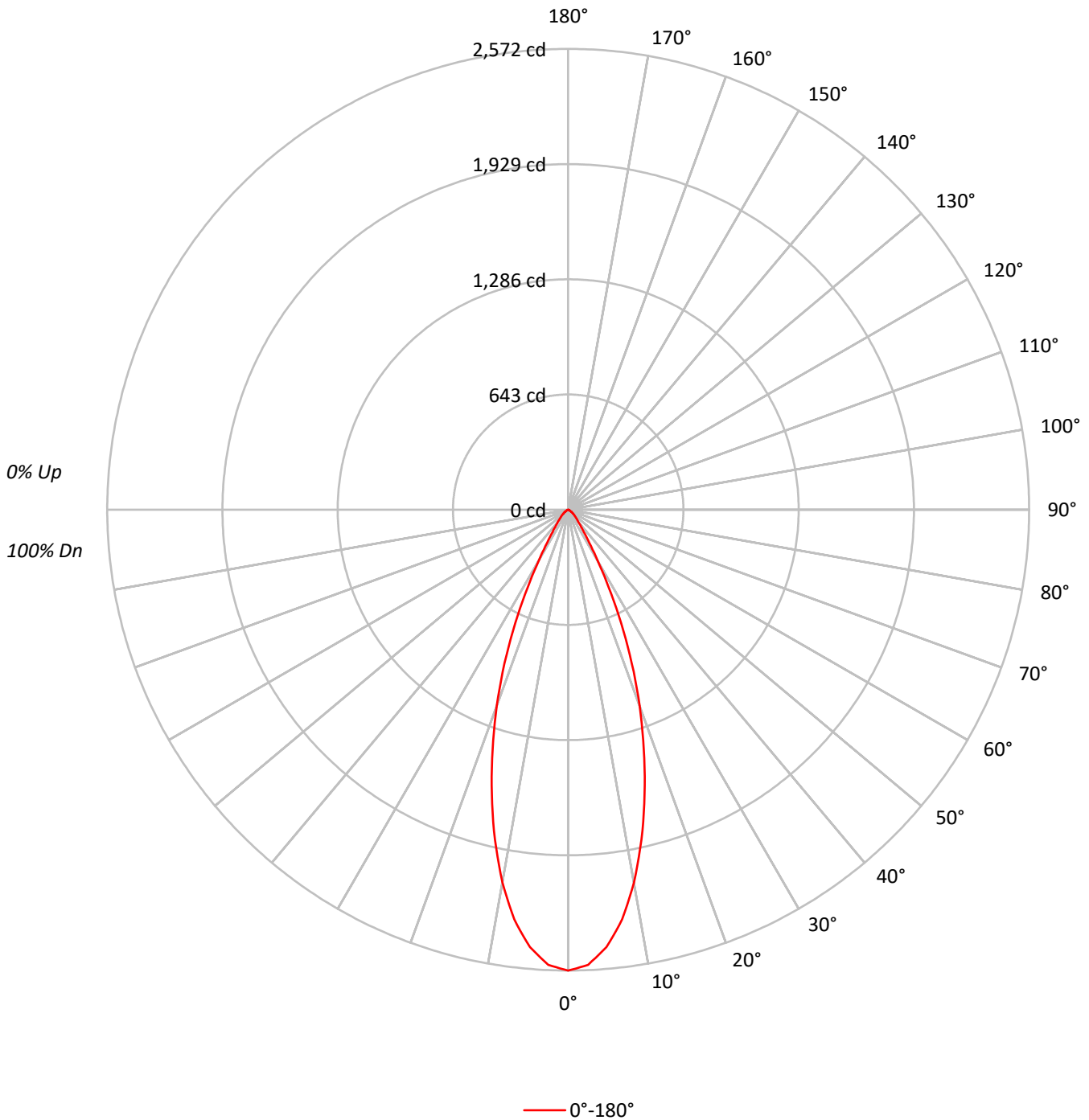
Lumens per Lamp: N/A  
Luminaire Lumens: 1176.9 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.62  
Luminous Opening: Circular (Dia: 0.19' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	1002766
5°	959168
10°	836225
15°	664663
20°	482638
25°	300146
30°	146385
35°	72479
40°	44375
45°	31810
50°	23289
55°	16108
60°	10370
65°	6826
70°	5015
75°	2259
80°	0
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	223.2	19.0
10°-20°	452.1	38.4
20°-30°	318.8	27.1
30°-40°	105.5	9.0
40°-50°	45.7	3.9
50°-60°	21.8	1.9
60°-70°	8.0	0.7
70°-80°	1.8	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°	994.1	84.5
0°-40°	1099.6	93.4
0°-60°	1167.1	99.2
0°-90°	1176.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1176.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2572	
5°	2451	223
15°	1647	452
25°	698	319
35°	152	106
45°	58	46
55°	24	22
65°	7	8
75°	2	2
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2572.3
2.5°	2542.7
5°	2451.1
7.5°	2306.2
10°	2112.5
12.5°	1887.8
15°	1646.9
17.5°	1401.5
20°	1163.4
22.5°	926.9
25°	697.8
27.5°	486.4
30°	325.2
32.5°	217.3
35°	152.3
37.5°	113.8
40°	87.2
42.5°	71.0
45°	57.7
47.5°	47.3
50°	38.4
52.5°	31.0
55°	23.7
57.5°	17.7
60°	13.3
62.5°	10.3
65°	7.4
67.5°	5.9
70°	4.4
72.5°	3.0
75°	1.5
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)