

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: P286841

Luminaire Tested: **L81111FL9040MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286841
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: L81111FL9040MB
Description: HALO, TRACK-MINI, BLACK, 38D BEAM
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

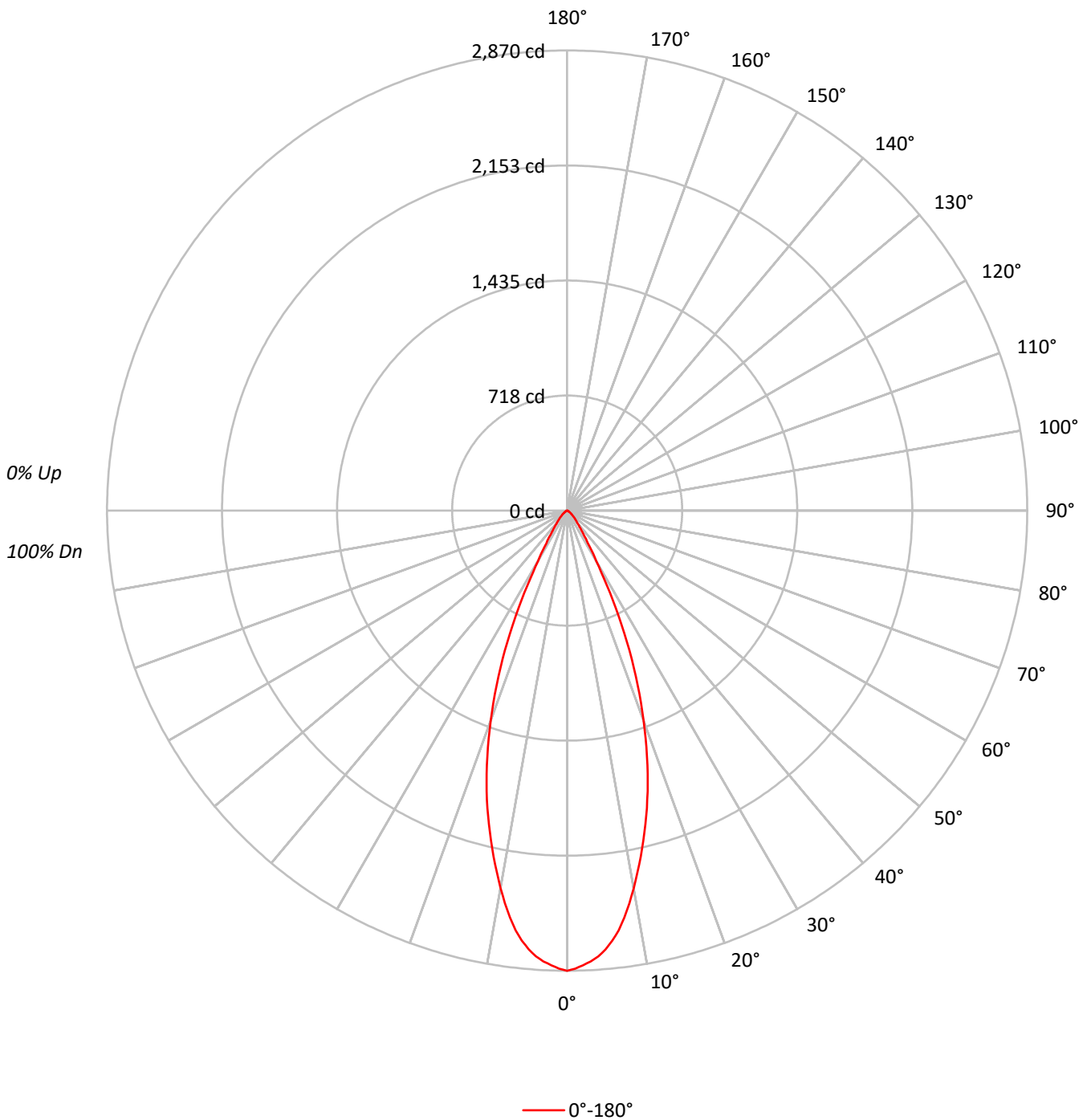
Lumens per Lamp: N/A
Luminaire Lumens: 1351.5 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.63
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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°	1119014
5°	1075195
10°	946349
15°	775325
20°	578053
25°	363591
30°	163716
35°	80474
40°	49515
45°	33905
50°	22803
55°	15088
60°	9356
65°	6272
70°	3875
75°	2561
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.9	18.6
10°-20°	526.2	38.9
20°-30°	379.7	28.1
30°-40°	117.3	8.7
40°-50°	48.8	3.6
50°-60°	20.3	1.5
60°-70°	6.9	0.5
70°-80°	1.3	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°	1156.8	85.6
0°-40°	1274.2	94.3
0°-60°	1343.2	99.4
0°-90°	1351.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1351.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2870	
5°	2748	251
15°	1921	526
25°	845	380
35°	169	117
45°	62	49
55°	22	20
65°	7	7
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2870.5
1°	2856.9
2°	2838.1
3°	2815.9
4°	2786.8
5°	2747.6
6°	2698.0
7°	2638.3
8°	2563.1
9°	2479.5
10°	2390.7
11°	2298.5
12°	2206.3
13°	2112.3
14°	2016.7
15°	1921.1
16°	1820.3
17°	1717.9
18°	1610.3
19°	1502.7
20°	1393.4
21°	1285.8
22°	1174.8
23°	1065.6
24°	954.6
25°	845.3
26°	732.6
27°	626.7
28°	527.7
29°	438.9
30°	363.7
32.5°	240.8
35°	169.1
37.5°	126.4
40°	97.3
42.5°	76.8
45°	61.5
47.5°	49.5
50°	37.6
52.5°	29.0
55°	22.2
57.5°	15.4
60°	12.0
62.5°	8.5
65°	6.8



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	5.1
70°	3.4
72.5°	1.7
75°	1.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)