

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: P286835

Luminaire Tested: **L81111FL9030MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286835
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: L81111FL9030MB
Description: HALO, TRACK-MINI, BLACK, 38D BEAM
Light Source: (1) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

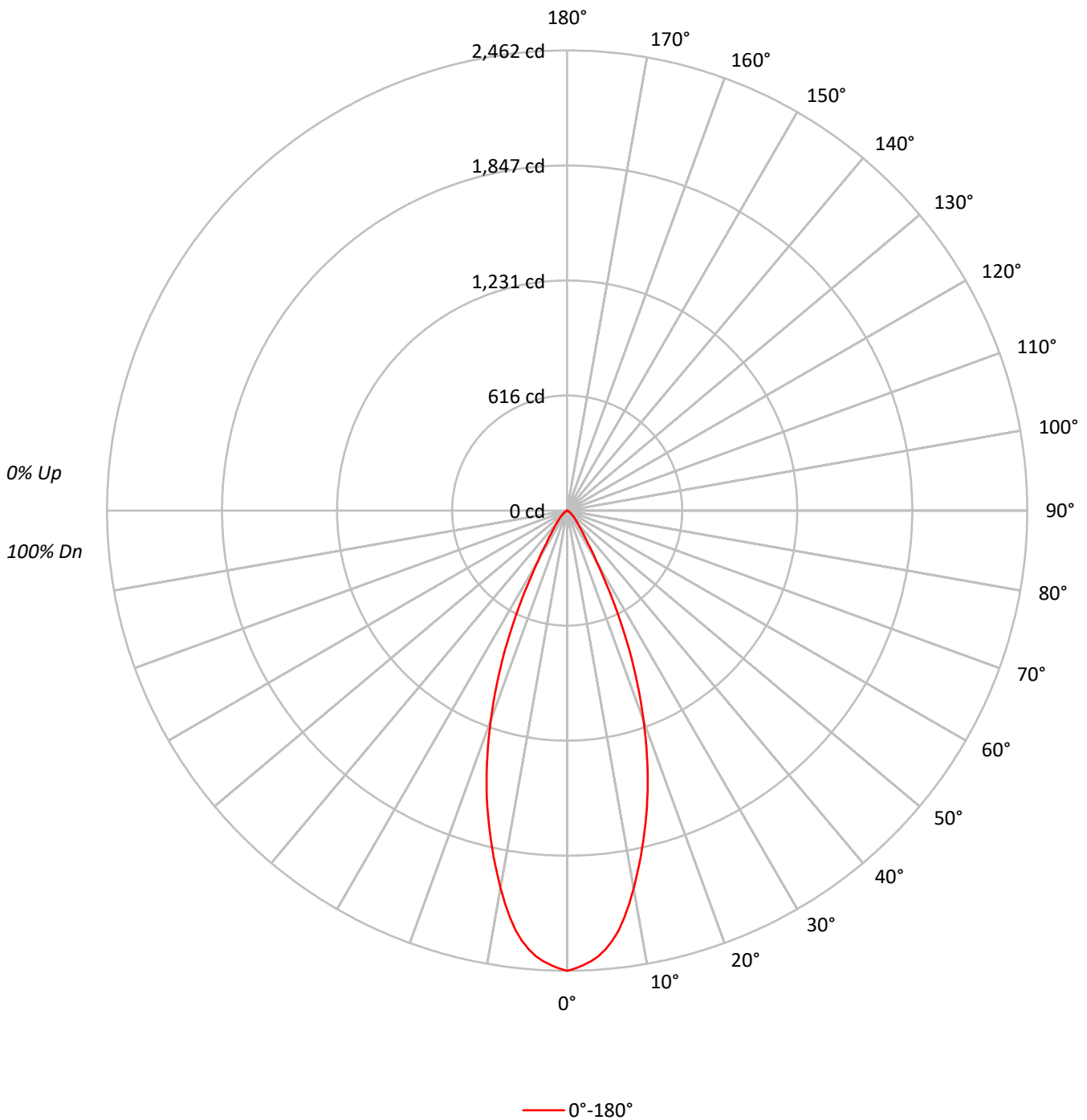
Lumens per Lamp: N/A
Luminaire Lumens: 1159.3 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 0.63 / 0.63 / 0.63
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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°	959884
5°	922266
10°	811762
15°	665066
20°	495871
25°	311889
30°	140444
35°	69005
40°	42492
45°	29054
50°	19528
55°	12913
60°	8031
65°	5442
70°	3305
75°	2259
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.2	18.6
10°-20°	451.4	38.9
20°-30°	325.7	28.1
30°-40°	100.6	8.7
40°-50°	41.9	3.6
50°-60°	17.4	1.5
60°-70°	6.0	0.5
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°	992.3	85.6
0°-40°	1092.9	94.3
0°-60°	1152.2	99.4
0°-90°	1159.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2462	
5°	2357	215
15°	1648	451
25°	725	326
35°	145	101
45°	53	42
55°	19	17
65°	6	6
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2462.3
1°	2450.6
2°	2434.5
3°	2415.4
4°	2390.5
5°	2356.8
6°	2314.4
7°	2263.1
8°	2198.6
9°	2126.9
10°	2050.7
11°	1971.6
12°	1892.5
13°	1811.9
14°	1729.9
15°	1647.9
16°	1561.5
17°	1473.6
18°	1381.3
19°	1289.0
20°	1195.3
21°	1103.0
22°	1007.8
23°	914.0
24°	818.8
25°	725.1
26°	628.4
27°	537.6
28°	452.6
29°	376.4
30°	312.0
32.5°	206.5
35°	145.0
37.5°	108.4
40°	83.5
42.5°	65.9
45°	52.7
47.5°	42.5
50°	32.2
52.5°	24.9
55°	19.0
57.5°	13.2
60°	10.3
62.5°	7.3
65°	5.9



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	4.4
70°	2.9
72.5°	1.5
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)