

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: P236643

Luminaire Tested: **L81111NF9030MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-557-3)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L81111NF9030MB
Description: HALO, TRACK-MINI, 22D BEAM
Light Source: (1) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

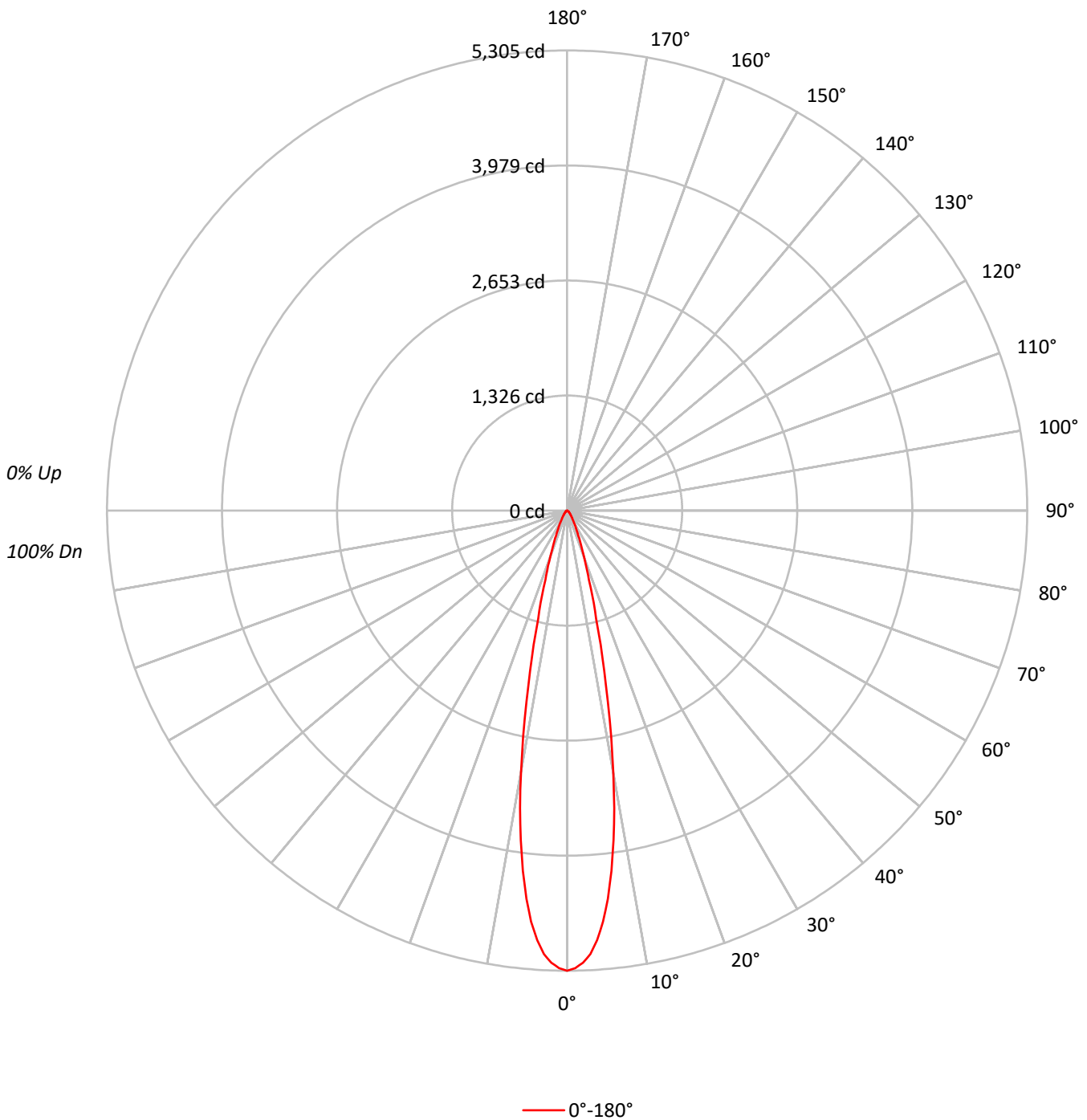
Lumens per Lamp: N/A
Luminaire Lumens: 1040.1 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.36
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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	115	113	110	109	112	110	109	107	106	105	104		103	102	101		99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		96	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94	92	90	89
4	103	98	93	90	102	97	93	90	95	91	89		93	90	88		91	89	87	86
5	100	94	89	86	99	93	89	86	91	88	85		90	87	84		88	86	84	83
6	97	90	86	83	96	90	86	83	88	85	82		87	84	82		86	83	81	80
7	94	87	83	80	93	87	83	80	86	82	79		85	81	79		84	81	79	78
8	92	85	80	77	91	84	80	77	83	80	77		82	79	77		82	79	76	75
9	89	82	78	75	88	82	78	75	81	77	75		80	77	75		80	77	74	73
10	87	80	76	73	86	80	76	73	79	75	73		78	75	73		78	75	72	72

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2068138
5°	1861438
10°	1211606
15°	520180
20°	234391
25°	118372
30°	67791
35°	42498
40°	28549
45°	20619
50°	15101
55°	12030
60°	9746
65°	8579
70°	7067
75°	4669
80°	2245
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.7	38.3
10°-20°	388.9	37.4
20°-30°	136.0	13.1
30°-40°	58.3	5.6
40°-50°	29.4	2.8
50°-60°	16.0	1.5
60°-70°	9.0	0.9
70°-80°	3.7	0.4
80°-90°	0.1	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°	923.6	88.8
0°-40°	981.9	94.4
0°-60°	1027.3	98.8
0°-90°	1040.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1040.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5305	
5°	4757	399
15°	1289	389
25°	275	136
35°	89	58
45°	37	29
55°	18	16
65°	9	9
75°	3	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5305.2
1°	5275.1
2°	5216.9
3°	5118.2
4°	4964.5
5°	4756.8
6°	4499.2
7°	4183.5
8°	3836.6
9°	3472.0
10°	3060.8
12.5°	2053.3
15°	1288.9
17.5°	836.1
20°	565.0
22.5°	387.4
25°	275.2
27.5°	201.5
30°	150.6
32.5°	115.3
35°	89.3
37.5°	70.6
40°	56.1
42.5°	45.7
45°	37.4
47.5°	30.1
50°	24.9
52.5°	20.8
55°	17.7
57.5°	14.5
60°	12.5
62.5°	10.4
65°	9.3
67.5°	7.3
70°	6.2
72.5°	5.2
75°	3.1
77.5°	2.1
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)