

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: P236654

Luminaire Tested: **L81211NF9027MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-557-4)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L81211NF9027MB
Description: HALO, TRACK-MINI, CYLINDER, 22D BEAM
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

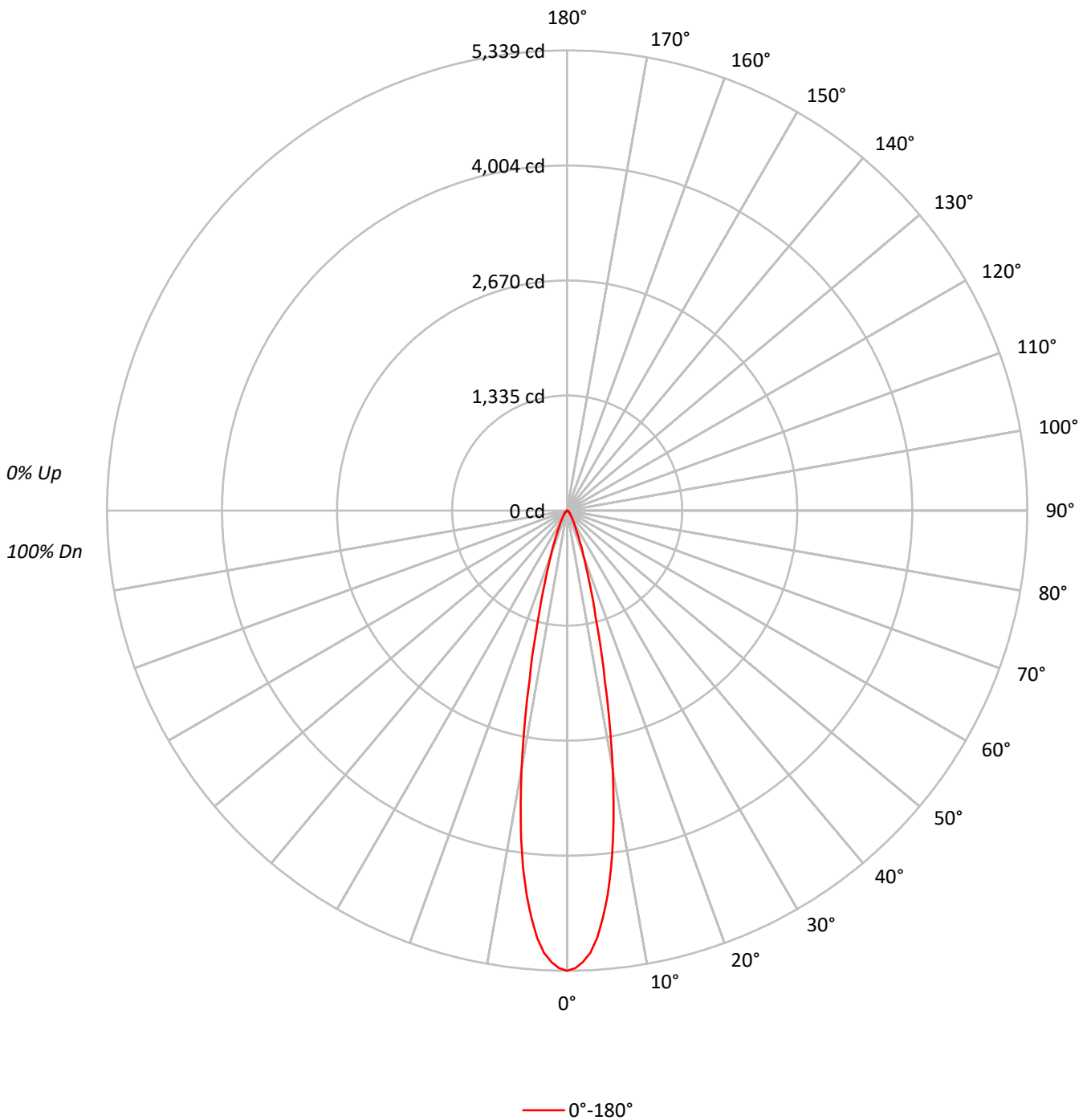
Lumens per Lamp: N/A
Luminaire Lumens: 1018.9 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.36
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2081471
5°	1858542
10°	1204203
15°	515861
20°	227131
25°	109254
30°	61489
35°	39024
40°	26768
45°	19516
50°	15344
55°	11690
60°	9434
65°	7472
70°	6953
75°	4519
80°	2245
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.1	39.1
10°-20°	383.9	37.7
20°-30°	127.3	12.5
30°-40°	53.3	5.2
40°-50°	28.4	2.8
50°-60°	15.9	1.6
60°-70°	8.5	0.8
70°-80°	3.3	0.3
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°	909.4	89.3
0°-40°	962.6	94.5
0°-60°	1007.0	98.8
0°-90°	1018.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1018.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5339	
5°	4749	398
15°	1278	384
25°	254	127
35°	82	53
45°	35	28
55°	17	16
65°	8	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5339.4
1°	5309.0
2°	5241.2
3°	5135.9
4°	4973.0
5°	4749.4
6°	4487.2
7°	4182.6
8°	3833.5
9°	3444.9
10°	3042.1
12.5°	2021.0
15°	1278.2
17.5°	823.8
20°	547.5
22.5°	368.4
25°	254.0
27.5°	182.2
30°	136.6
32.5°	104.2
35°	82.0
37.5°	64.8
40°	52.6
42.5°	43.5
45°	35.4
47.5°	30.4
50°	25.3
52.5°	21.3
55°	17.2
57.5°	14.2
60°	12.1
62.5°	10.1
65°	8.1
67.5°	7.1
70°	6.1
72.5°	4.0
75°	3.0
77.5°	2.0
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)