

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: P236642

Luminaire Tested: **L81111NF9027MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236642
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: L81111NF9027MB
Description: HALO, TRACK-MINI, 22D BEAM
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

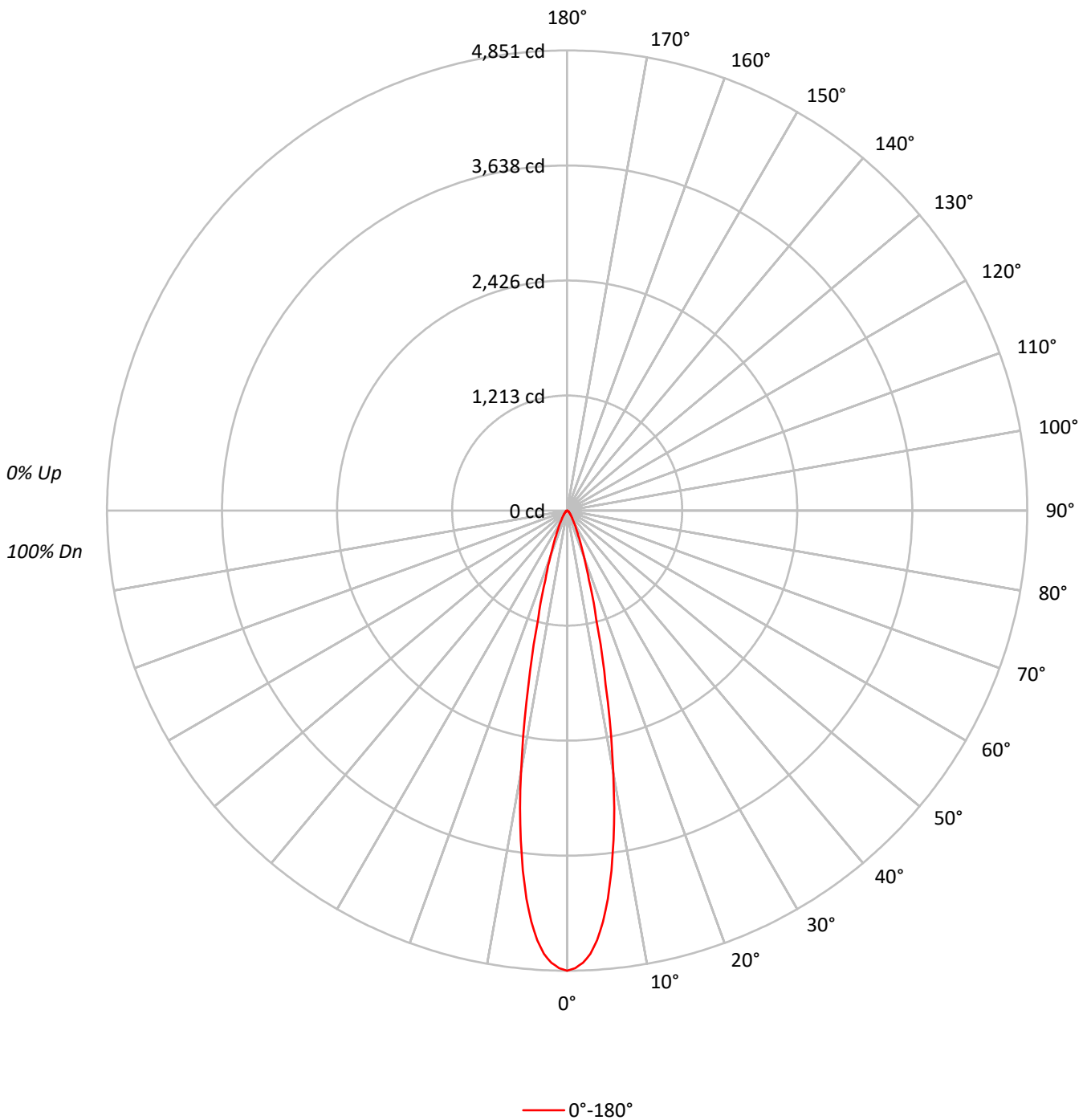
Lumens per Lamp: N/A
Luminaire Lumens: 951.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.36
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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°	1891038
5°	1702013
10°	1107815
15°	475624
20°	214312
25°	108264
30°	61984
35°	38881
40°	26106
45°	18855
50°	13828
55°	10942
60°	8888
65°	7841
70°	6497
75°	4217
80°	2020
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.6	38.3
10°-20°	355.6	37.4
20°-30°	124.4	13.1
30°-40°	53.3	5.6
40°-50°	26.9	2.8
50°-60°	14.6	1.5
60°-70°	8.2	0.9
70°-80°	3.3	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°	844.5	88.8
0°-40°	897.8	94.4
0°-60°	939.3	98.8
0°-90°	951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	951.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4851	
5°	4349	365
15°	1178	356
25°	252	124
35°	82	53
45°	34	27
55°	16	15
65°	8	8
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4850.9
1°	4823.3
2°	4770.1
3°	4679.9
4°	4539.4
5°	4349.4
6°	4113.9
7°	3825.2
8°	3508.0
9°	3174.7
10°	2798.6
12.5°	1877.5
15°	1178.5
17.5°	764.5
20°	516.6
22.5°	354.2
25°	251.7
27.5°	184.2
30°	137.7
32.5°	105.4
35°	81.7
37.5°	64.6
40°	51.3
42.5°	41.8
45°	34.2
47.5°	27.5
50°	22.8
52.5°	19.0
55°	16.1
57.5°	13.3
60°	11.4
62.5°	9.5
65°	8.5
67.5°	6.6
70°	5.7
72.5°	4.7
75°	2.8
77.5°	1.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)