

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: P236645

Luminaire Tested: **L81111NF9040MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236645
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: L81111NF9040MB
Description: HALO, TRACK-MINI, 22D BEAM
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

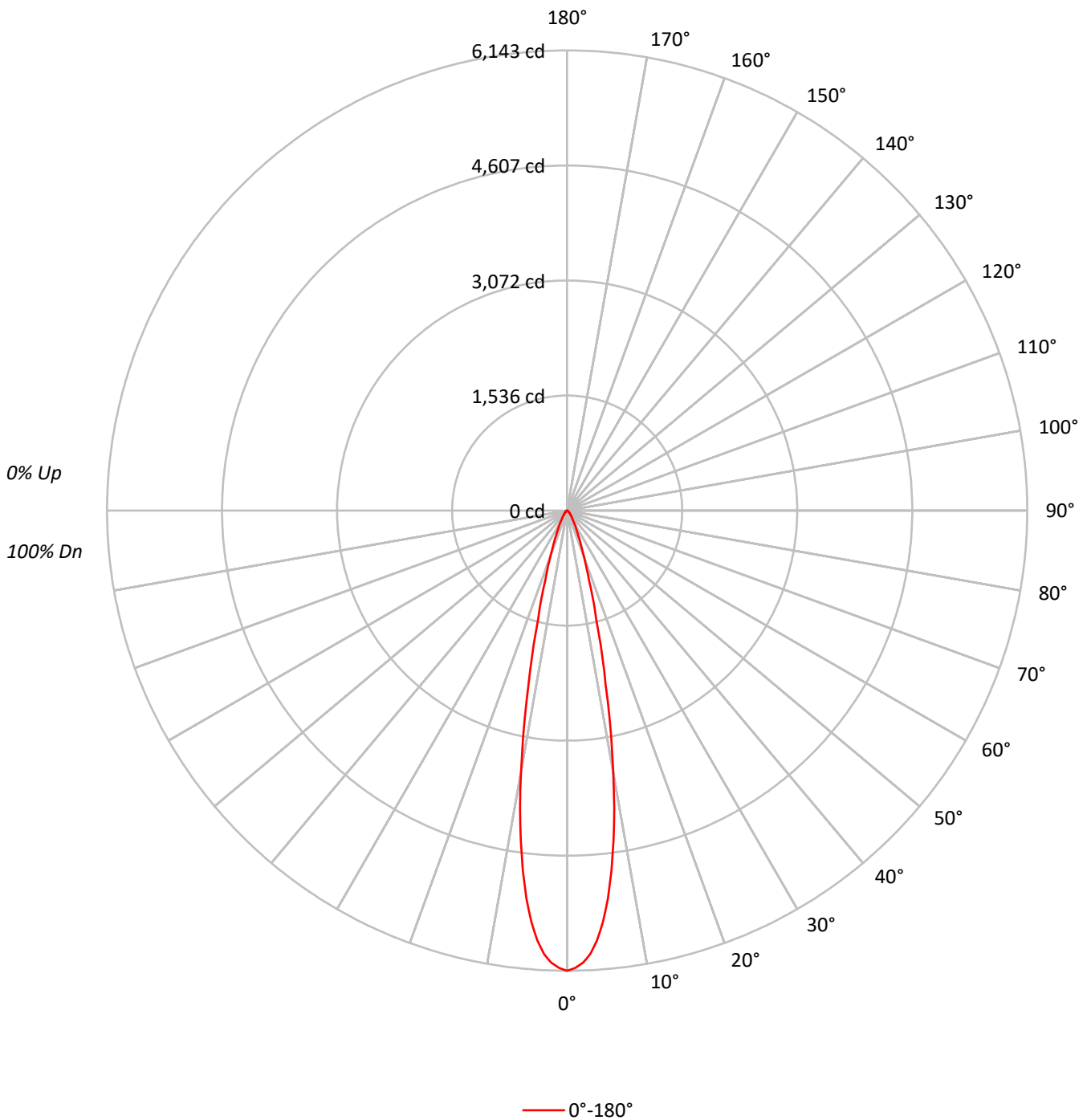
Lumens per Lamp: N/A
Luminaire Lumens: 1204.3 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 0.38 / 0.38 / 0.36
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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°	2394623
5°	2155281
10°	1402879
15°	602309
20°	271395
25°	137083
30°	78504
35°	49208
40°	33027
45°	23872
50°	17527
55°	13865
60°	11227
65°	9962
70°	8207
75°	5422
80°	2694
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.6	38.3
10°-20°	450.3	37.4
20°-30°	157.5	13.1
30°-40°	67.5	5.6
40°-50°	34.1	2.8
50°-60°	18.5	1.5
60°-70°	10.4	0.9
70°-80°	4.3	0.4
80°-90°	0.2	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°	1069.4	88.8
0°-40°	1136.9	94.4
0°-60°	1189.5	98.8
0°-90°	1204.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1204.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6143	
5°	5508	462
15°	1492	450
25°	319	157
35°	103	68
45°	43	34
55°	20	18
65°	11	10
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6142.7
1°	6107.8
2°	6040.5
3°	5926.2
4°	5748.3
5°	5507.7
6°	5209.5
7°	4843.9
8°	4442.3
9°	4020.2
10°	3544.0
12.5°	2377.5
15°	1492.4
17.5°	968.1
20°	654.2
22.5°	448.6
25°	318.7
27.5°	233.3
30°	174.4
32.5°	133.5
35°	103.4
37.5°	81.8
40°	64.9
42.5°	52.9
45°	43.3
47.5°	34.9
50°	28.9
52.5°	24.1
55°	20.4
57.5°	16.8
60°	14.4
62.5°	12.0
65°	10.8
67.5°	8.4
70°	7.2
72.5°	6.0
75°	3.6
77.5°	2.4
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)