

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: P236657

Luminaire Tested: **L81211NF9040MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236657
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: L81211NF9040MB
Description: HALO, TRACK-MINI, CYLINDER, 22D BEAM
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

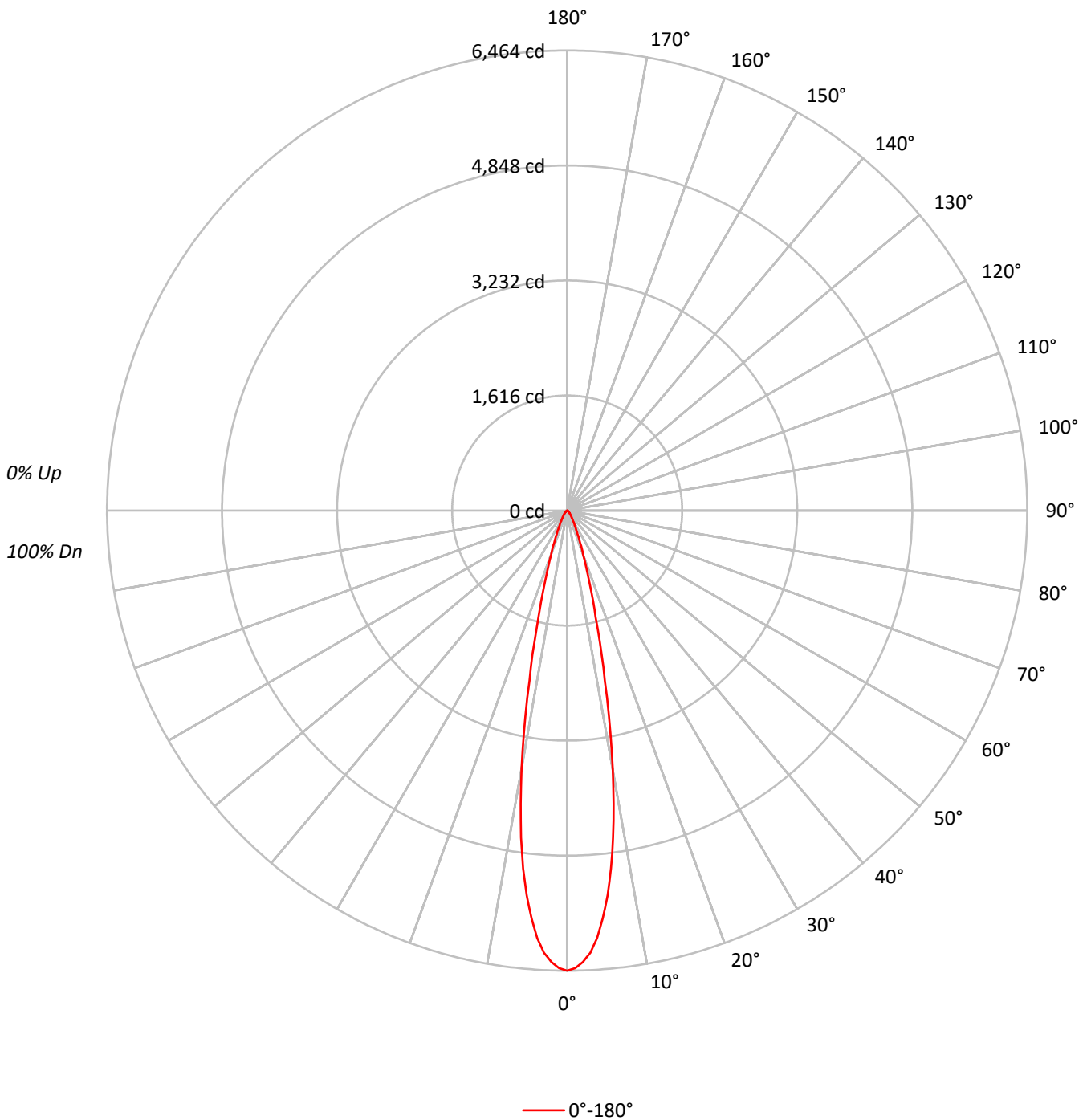
Lumens per Lamp: N/A
Luminaire Lumens: 1233.6 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Spacing Criteria (0/90/45): 0.37 / 0.37 / 0.36
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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	94	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		87	84	82		86	84	82	80
7	94	88	83	80	93	87	83	80	86	82	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°	2520032
5°	2250137
10°	1457941
15°	624546
20°	275005
25°	132266
30°	74453
35°	47209
40°	32416
45°	23651
50°	18558
55°	14137
60°	11461
65°	9040
70°	8434
75°	5573
80°	2694
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.0	39.1
10°-20°	464.8	37.7
20°-30°	154.1	12.5
30°-40°	64.5	5.2
40°-50°	34.4	2.8
50°-60°	19.2	1.6
60°-70°	10.3	0.8
70°-80°	4.1	0.3
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°	1101.0	89.2
0°-40°	1165.5	94.5
0°-60°	1219.1	98.8
0°-90°	1233.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6464	
5°	5750	482
15°	1548	465
25°	308	154
35°	99	64
45°	43	34
55°	21	19
65°	10	10
75°	4	4
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6464.4
1°	6427.7
2°	6345.6
3°	6218.2
4°	6020.9
5°	5750.1
6°	5432.8
7°	5064.0
8°	4641.3
9°	4170.8
10°	3683.1
12.5°	2446.8
15°	1547.5
17.5°	997.4
20°	662.9
22.5°	446.0
25°	307.5
27.5°	220.5
30°	165.4
32.5°	126.2
35°	99.2
37.5°	78.4
40°	63.7
42.5°	52.7
45°	42.9
47.5°	36.8
50°	30.6
52.5°	25.7
55°	20.8
57.5°	17.2
60°	14.7
62.5°	12.3
65°	9.8
67.5°	8.6
70°	7.4
72.5°	4.9
75°	3.7
77.5°	2.5
80°	1.2
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)