

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: P286853

Luminaire Tested: **L81211FL9040MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1902-134-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L81211FL9040MB
Description: HALO, TRACK-MINI, BLACK, 38D BEAM
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

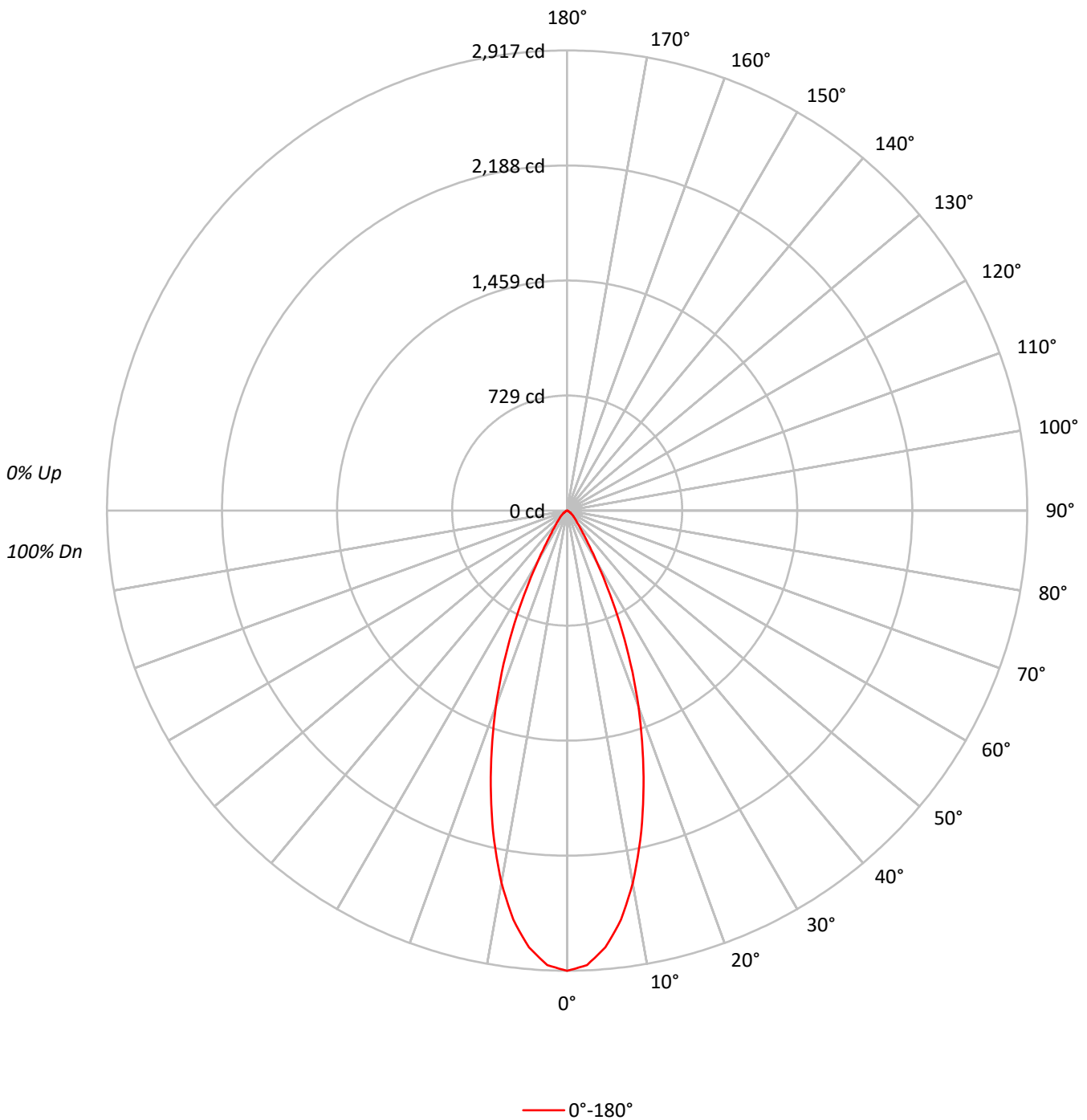
Lumens per Lamp: N/A
Luminaire Lumens: 1334.8 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.62
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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	114	112	109	107	112	109	107	106	105	104	102		102	100	99		98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	93	91	89
3	105	99	94	91	103	97	93	90	95	92	89		93	90	87		90	88	86	85
4	100	93	89	85	98	92	88	84	90	86	83		88	85	82		87	84	81	80
5	96	89	83	80	94	88	83	79	86	82	79		84	81	78		83	80	77	76
6	92	84	79	75	91	84	79	75	82	78	75		81	77	74		80	76	74	72
7	88	80	75	71	87	80	75	71	78	74	71		77	73	70		76	73	70	69
8	85	77	71	68	84	76	71	68	75	71	68		74	70	67		73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	64		71	67	64		70	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62		68	64	62		68	64	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1137297
5°	1087834
10°	948447
15°	753814
20°	547396
25°	340407
30°	166056
35°	82187
40°	50329
45°	36055
50°	26442
55°	18215
60°	11773
65°	7748
70°	5699
75°	2561
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.1	19.0
10°-20°	512.7	38.4
20°-30°	361.6	27.1
30°-40°	119.7	9.0
40°-50°	51.9	3.9
50°-60°	24.7	1.9
60°-70°	9.1	0.7
70°-80°	2.0	0.1
80°-90°	0.0	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°	1127.4	84.5
0°-40°	1247.1	93.4
0°-60°	1323.7	99.2
0°-90°	1334.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1334.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2917	
5°	2780	253
15°	1868	513
25°	791	362
35°	173	120
45°	65	52
55°	27	25
65°	8	9
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2917.4
2.5°	2883.9
5°	2779.9
7.5°	2615.6
10°	2396.0
12.5°	2141.1
15°	1867.8
17.5°	1589.5
20°	1319.5
22.5°	1051.3
25°	791.4
27.5°	551.6
30°	368.9
32.5°	246.5
35°	172.7
37.5°	129.1
40°	98.9
42.5°	80.5
45°	65.4
47.5°	53.7
50°	43.6
52.5°	35.2
55°	26.8
57.5°	20.1
60°	15.1
62.5°	11.7
65°	8.4
67.5°	6.7
70°	5.0
72.5°	3.4
75°	1.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)