

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: P236648

Luminaire Tested: **L81111SP9035MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-557-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L81111SP9035MB
Description: HALO, TRACK-MINI, 15D BEAM
Light Source: (1) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

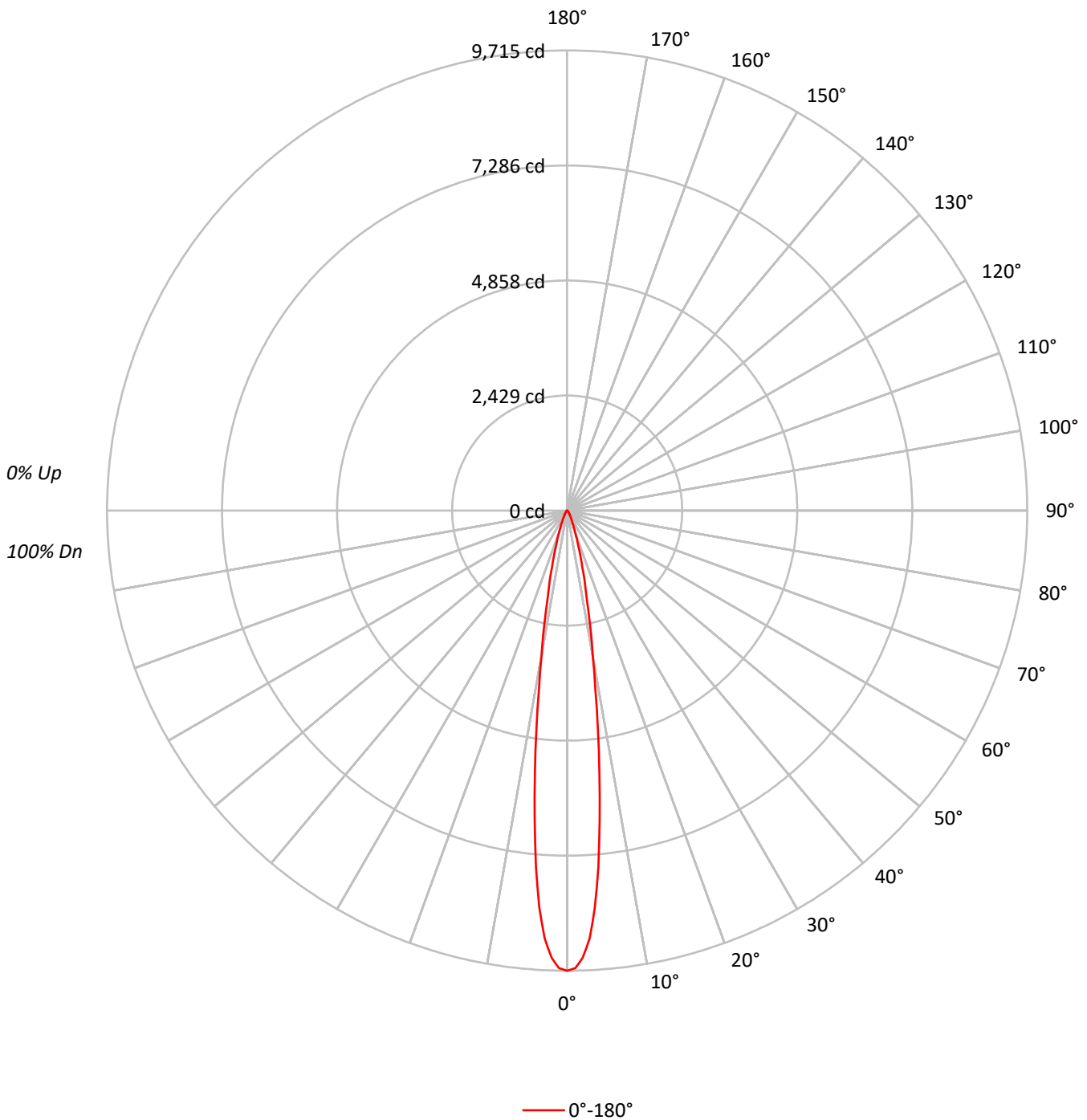
Lumens per Lamp: N/A
Luminaire Lumens: 1139.8 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.28
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	97	95	94
3	108	104	100	98	106	102	99	97	100	97	95	98	96	94	96	94	92	91
4	105	100	96	93	104	99	96	93	97	94	92	95	93	91	94	92	90	89
5	102	97	93	90	101	96	92	90	94	91	89	93	90	88	92	89	87	86
6	100	94	90	87	99	93	90	87	92	89	86	91	88	86	90	87	85	84
7	97	91	87	85	96	91	87	85	90	86	84	89	86	84	88	85	83	82
8	95	89	85	83	94	89	85	82	88	84	82	87	84	82	86	83	82	81
9	93	87	83	81	92	87	83	81	86	83	80	85	82	80	84	82	80	79
10	91	85	81	79	90	85	81	79	84	81	79	83	80	78	83	80	78	77

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3787221
5°	2954438
10°	1226529
15°	496207
20°	212736
25°	101984
30°	56988
35°	33170
40°	20203
45°	14169
50°	11038
55°	8768
60°	6705
65°	5903
70°	4901
75°	4820
80°	2469
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.8	49.3
10°-20°	371.7	32.6
20°-30°	118.7	10.4
30°-40°	45.7	4.0
40°-50°	20.5	1.8
50°-60°	11.6	1.0
60°-70°	6.4	0.6
70°-80°	3.2	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°	1052.2	92.3
0°-40°	1097.9	96.3
0°-60°	1130.0	99.1
0°-90°	1139.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9715	
5°	7550	562
15°	1230	372
25°	237	119
35°	70	46
45°	26	21
55°	13	12
65°	6	6
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9715.0
1°	9663.5
2°	9443.6
3°	9045.5
4°	8398.6
5°	7549.9
6°	6569.3
7°	5584.4
8°	4651.0
9°	3806.6
10°	3098.5
12.5°	1919.4
15°	1229.5
17.5°	790.7
20°	512.8
22.5°	341.2
25°	237.1
27.5°	170.6
30°	126.6
32.5°	93.3
35°	69.7
37.5°	51.5
40°	39.7
42.5°	31.1
45°	25.7
47.5°	21.5
50°	18.2
52.5°	15.0
55°	12.9
57.5°	10.7
60°	8.6
62.5°	7.5
65°	6.4
67.5°	5.4
70°	4.3
72.5°	4.3
75°	3.2
77.5°	2.1
80°	1.1
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)