

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: P236647

Luminaire Tested: **L81111SP9030MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236647
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: L81111SP9030MB
Description: HALO, TRACK-MINI, 15D BEAM
Light Source: (1) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

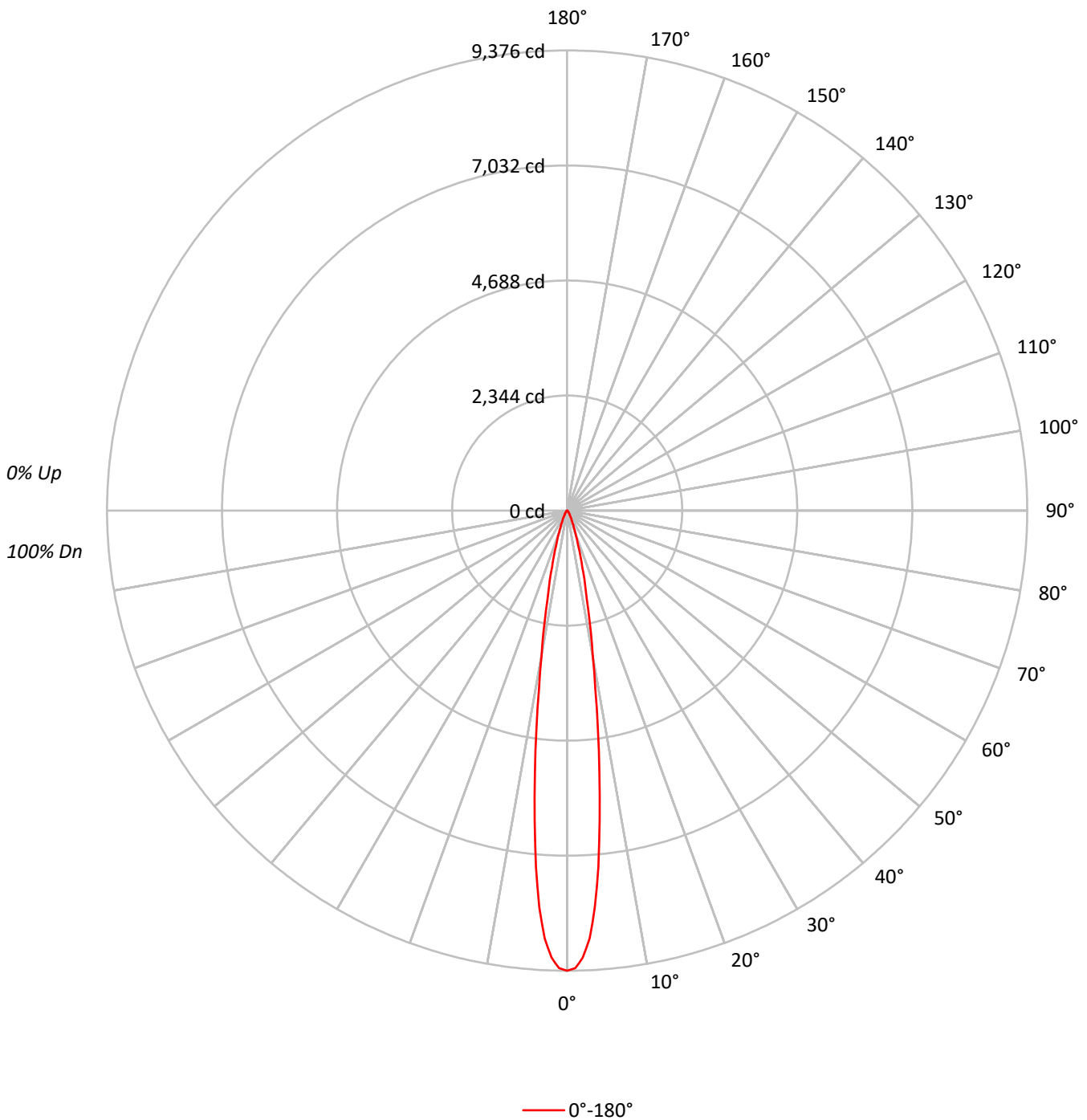
Lumens per Lamp: N/A
Luminaire Lumens: 1100.0 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.28
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P236647
CATALOG NUMBER: L81111SP9030MB

Luminous Intensity Polar Plot





TEST NUMBER: P236647

CATALOG NUMBER: L81111SP9030MB

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°	3654990
5°	2851285
10°	1183699
15°	478893
20°	205310
25°	98414
30°	55007
35°	32028
40°	19490
45°	13728
50°	10674
55°	8428
60°	6471
65°	5719
70°	4673
75°	4669
80°	2245
85°	0



TEST NUMBER: P236647

CATALOG NUMBER: L81111SP9030MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	542.2	49.3
10°-20°	358.7	32.6
20°-30°	114.5	10.4
30°-40°	44.1	4.0
40°-50°	19.8	1.8
50°-60°	11.2	1.0
60°-70°	6.1	0.6
70°-80°	3.1	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°	1015.4	92.3
0°-40°	1059.6	96.3
0°-60°	1090.6	99.1
0°-90°	1100.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1100.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9376	
5°	7286	542
15°	1187	359
25°	229	115
35°	67	44
45°	25	20
55°	12	11
65°	6	6
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P236647

CATALOG NUMBER: L81111SP9030MB

CANDELA DISTRIBUTION (FULL):

	0°
0°	9375.8
1°	9326.1
2°	9113.8
3°	8729.7
4°	8105.3
5°	7286.3
6°	6339.9
7°	5389.4
8°	4488.6
9°	3673.7
10°	2990.3
12.5°	1852.4
15°	1186.6
17.5°	763.1
20°	494.9
22.5°	329.3
25°	228.8
27.5°	164.6
30°	122.2
32.5°	90.1
35°	67.3
37.5°	49.7
40°	38.3
42.5°	30.0
45°	24.9
47.5°	20.7
50°	17.6
52.5°	14.5
55°	12.4
57.5°	10.4
60°	8.3
62.5°	7.2
65°	6.2
67.5°	5.2
70°	4.1
72.5°	4.1
75°	3.1
77.5°	2.1
80°	1.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)