

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: P236659

Luminaire Tested: **L81211SP9030MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-557-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L81211SP9030MB
Description: HALO, TRACK-MINI, CYLINDER, 15D BEAM
Light Source: (1) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

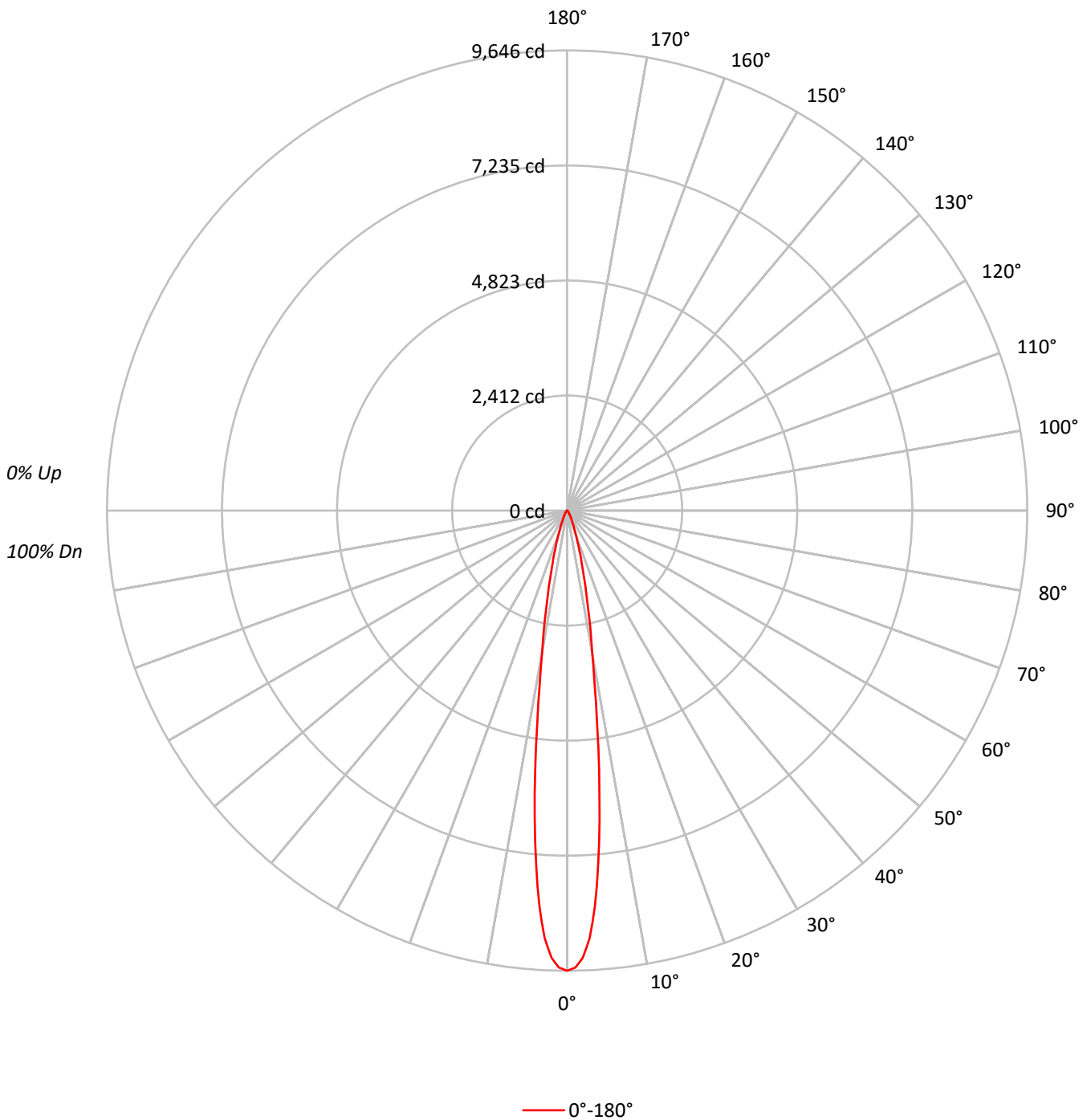
Lumens per Lamp: N/A
Luminaire Lumens: 1131.1 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.28
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3760400
5°	2920432
10°	1196920
15°	499072
20°	213067
25°	101081
30°	55907
35°	33027
40°	21068
45°	15437
50°	12190
55°	9855
60°	7875
65°	6180
70°	5129
75°	5121
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.5	48.8
10°-20°	370.2	32.7
20°-30°	117.7	10.4
30°-40°	45.9	4.1
40°-50°	22.2	2.0
50°-60°	12.8	1.1
60°-70°	6.8	0.6
70°-80°	3.0	0.3
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°	1040.4	92.0
0°-40°	1086.4	96.0
0°-60°	1121.4	99.1
0°-90°	1131.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9646	
5°	7463	552
15°	1237	370
25°	235	118
35°	69	46
45°	28	22
55°	14	13
65°	7	7
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	9646.2
1°	9584.7
2°	9383.3
3°	8975.9
4°	8330.2
5°	7463.0
6°	6501.7
7°	5490.1
8°	4518.7
9°	3663.8
10°	3023.7
12.5°	1920.3
15°	1236.6
17.5°	790.1
20°	513.6
22.5°	340.2
25°	235.0
27.5°	166.7
30°	124.2
32.5°	92.9
35°	69.4
37.5°	53.7
40°	41.4
42.5°	33.6
45°	28.0
47.5°	23.5
50°	20.1
52.5°	16.8
55°	14.5
57.5°	11.2
60°	10.1
62.5°	7.8
65°	6.7
67.5°	5.6
70°	4.5
72.5°	4.5
75°	3.4
77.5°	1.1
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)