

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: P236658

Luminaire Tested: **L81211SP9027MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236658
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: L81211SP9027MB
Description: HALO, TRACK-MINI, CYLINDER, 15D BEAM
Light Source: (1) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

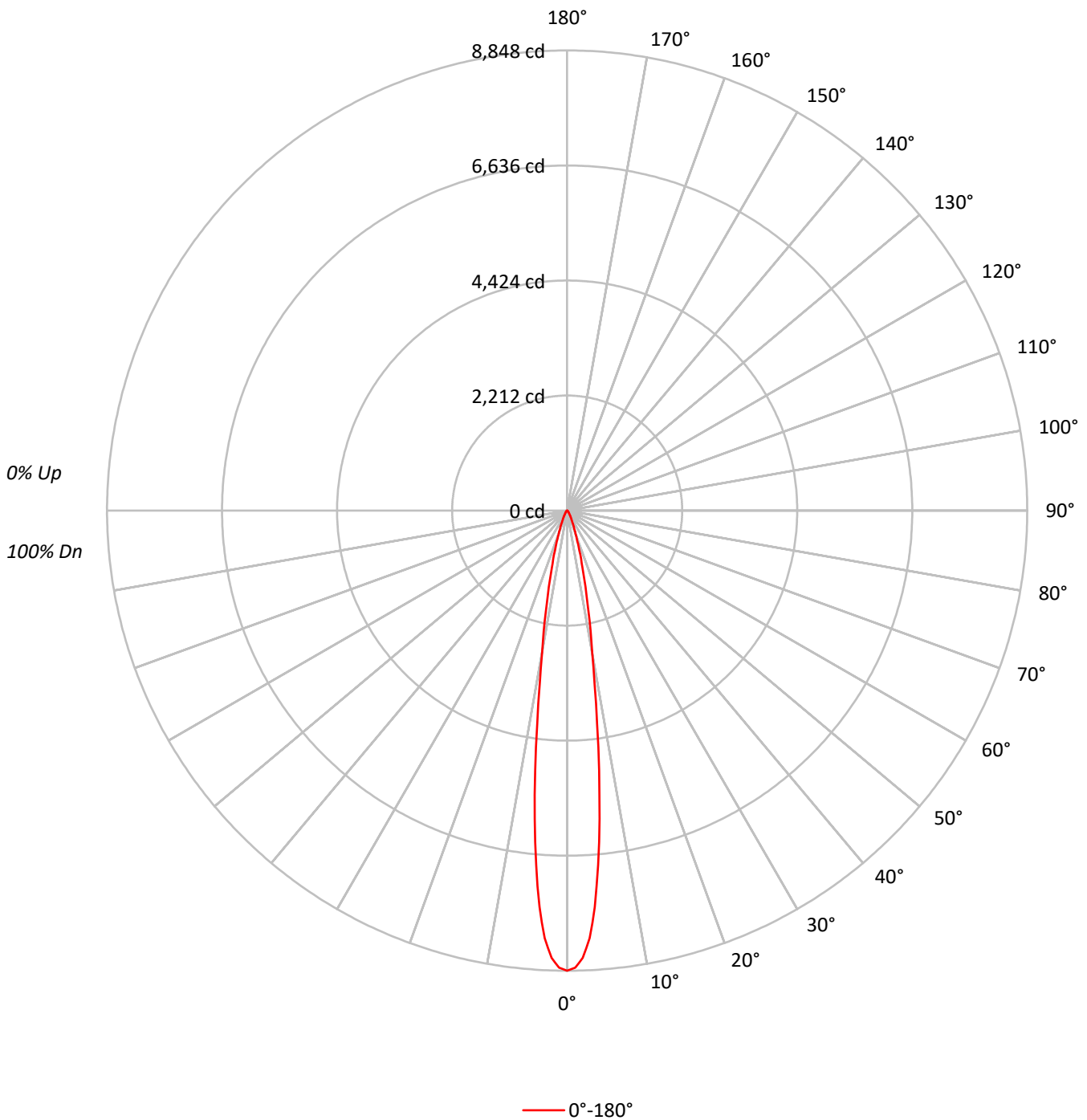
Lumens per Lamp: N/A
Luminaire Lumens: 1037.5 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 0.27 / 0.27 / 0.28
Luminous Opening: Circular (Dia: 0.19' x H: 0')
CIE Type: Direct

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°	3449119
5°	2678634
10°	1097840
15°	457745
20°	195436
25°	92694
30°	51271
35°	30267
40°	19338
45°	14169
50°	11220
55°	9039
60°	7173
65°	5719
70°	4673
75°	4669
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	506.8	48.8
10°-20°	339.6	32.7
20°-30°	107.9	10.4
30°-40°	42.1	4.1
40°-50°	20.4	2.0
50°-60°	11.8	1.1
60°-70°	6.2	0.6
70°-80°	2.7	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°	954.3	92.0
0°-40°	996.4	96.0
0°-60°	1028.6	99.1
0°-90°	1037.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1037.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8848	
5°	6845	507
15°	1134	340
25°	216	108
35°	64	42
45°	26	20
55°	13	12
65°	6	6
75°	3	3
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	8847.7
1°	8791.2
2°	8606.5
3°	8232.8
4°	7640.6
5°	6845.1
6°	5963.4
7°	5035.6
8°	4144.6
9°	3360.5
10°	2773.4
12.5°	1761.3
15°	1134.2
17.5°	724.6
20°	471.1
22.5°	312.0
25°	215.5
27.5°	152.9
30°	113.9
32.5°	85.2
35°	63.6
37.5°	49.3
40°	38.0
42.5°	30.8
45°	25.7
47.5°	21.6
50°	18.5
52.5°	15.4
55°	13.3
57.5°	10.3
60°	9.2
62.5°	7.2
65°	6.2
67.5°	5.1
70°	4.1
72.5°	4.1
75°	3.1
77.5°	1.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)