

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: P184091

Luminaire Tested: **L80815SP9040MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P184091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27054)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L80815SP9040MB
Description: HALO TRACK L LED 08, 1500 LM, SPOT, MATTE BLACK

Light Source: EATON LED 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1536.6 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.27
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

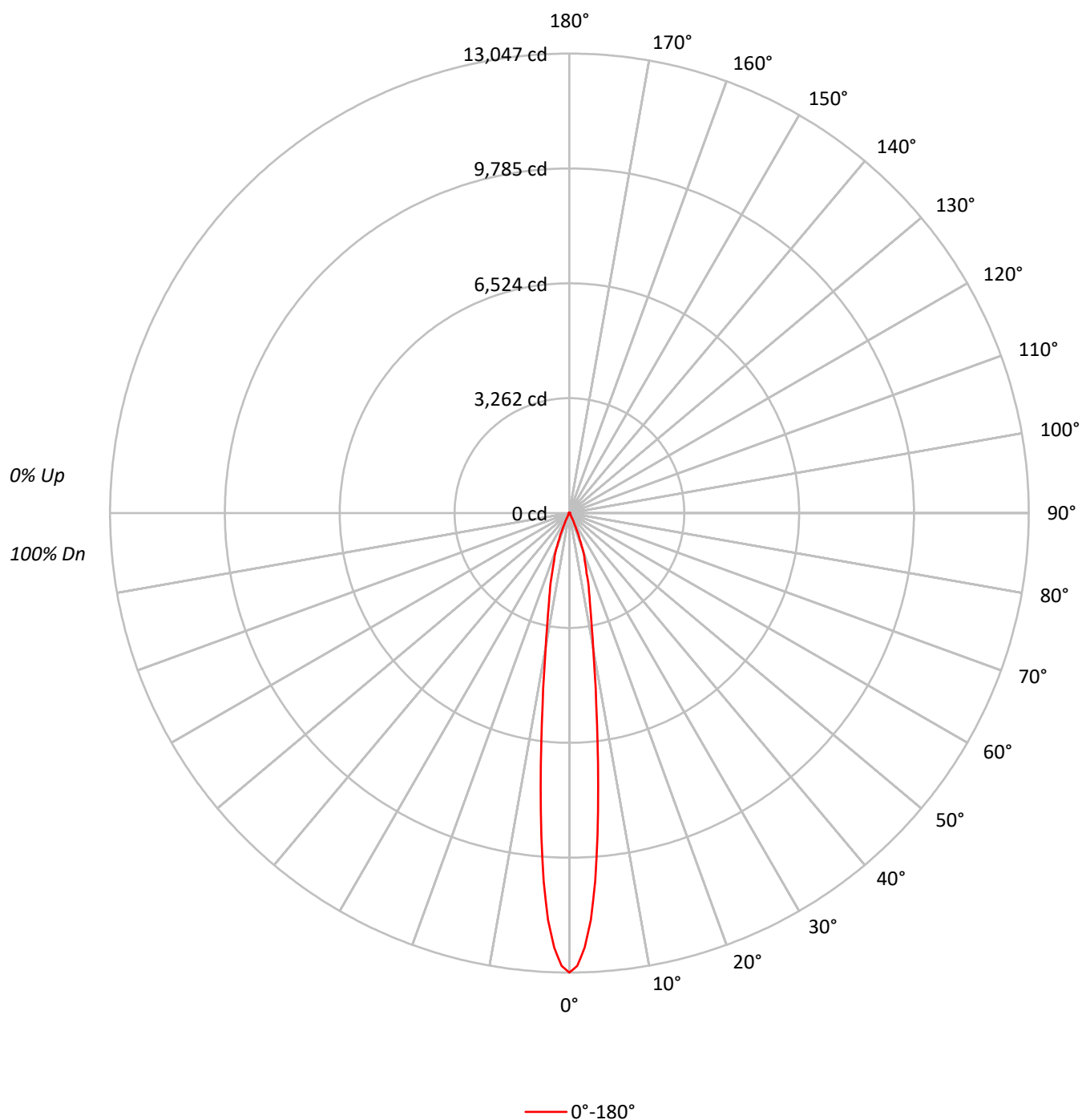
Input Watts (W): 20.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	115	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96					96			
2	111	107	104	102	109	106	103	100	102	100	98	100	98	96	97	96	94	93					93			
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90					90			
4	104	99	95	92	103	98	94	92	96	93	91	94	92	90	93	90	89	87					87			
5	102	96	92	89	100	95	91	88	93	90	88	92	89	87	91	88	86	85					85			
6	99	93	89	86	98	92	88	86	91	88	85	90	87	85	89	86	84	83					83			
7	97	90	86	84	95	90	86	83	89	85	83	88	85	83	87	84	82	81					81			
8	94	88	84	81	93	87	84	81	87	83	81	86	83	81	85	82	80	79					79			
9	92	86	82	79	91	85	82	79	85	81	79	84	81	79	83	81	79	78					78			
10	90	84	80	78	89	83	80	77	83	80	77	82	79	77	82	79	77	76					76			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2861021
5°	2022755
10°	862754
15°	467926
20°	253982
25°	77787
30°	19092
35°	12555
40°	7185
45°	4155
50°	7437
55°	6384
60°	6622
65°	5189
70°	5386
75°	8472
80°	19068
85°	29437



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.6	44.7
10°-20°	576.8	37.5
20°-30°	179.4	11.7
30°-40°	28.9	1.9
40°-50°	15.9	1.0
50°-60°	14.6	1.0
60°-70°	10.8	0.7
70°-80°	11.5	0.7
80°-90°	12.1	0.8
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°	1442.7	93.9
0°-40°	1471.6	95.8
0°-60°	1502.2	97.8
0°-90°	1536.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1536.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13047	
5°	9189	687
15°	2061	577
25°	322	179
35°	47	29
45°	13	16
55°	17	15
65°	10	11
75°	10	12
85°	12	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	13047.3
1°	12861.5
2°	12342.4
3°	11568.8
4°	10478.7
5°	9189.4
6°	7809.6
7°	6527.0
8°	5492.2
9°	4574.6
10°	3874.7
11°	3340.5
12°	2926.9
13°	2588.7
14°	2317.4
15°	2061.2
16°	1769.9
17°	1577.3
18°	1411.6
19°	1282.6
20°	1088.4
21°	899.2
22°	725.0
23°	571.0
24°	440.4
25°	321.5
26°	234.4
27°	169.1
28°	149.0
29°	93.8
30°	75.4
32.5°	41.9
35°	46.9
37.5°	46.9
40°	25.1
42.5°	36.8
45°	13.4
47.5°	10.0
50°	21.8
52.5°	15.1
55°	16.7
57.5°	15.1
60°	15.1
62.5°	8.4
65°	10.0



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CANDELA DISTRIBUTION (continued):

	0°
67.5°	13.4
70°	8.4
72.5°	11.7
75°	10.0
77.5°	10.0
80°	15.1
82.5°	8.4
85°	11.7
87.5°	16.7
90°	0.0

(END OF REPORT)