

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: P257086

Luminaire Tested: **L806SMSP8040MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257086  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L806SMSP8040MB  
Description: HALO LED SMALL OUTPUT TRACK FIXTURE 06 WITH SPOT OPTIC, MATTE BLACK  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1805-754-9)  
Light Source: (5) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRICAL DRIVER

**Summary**

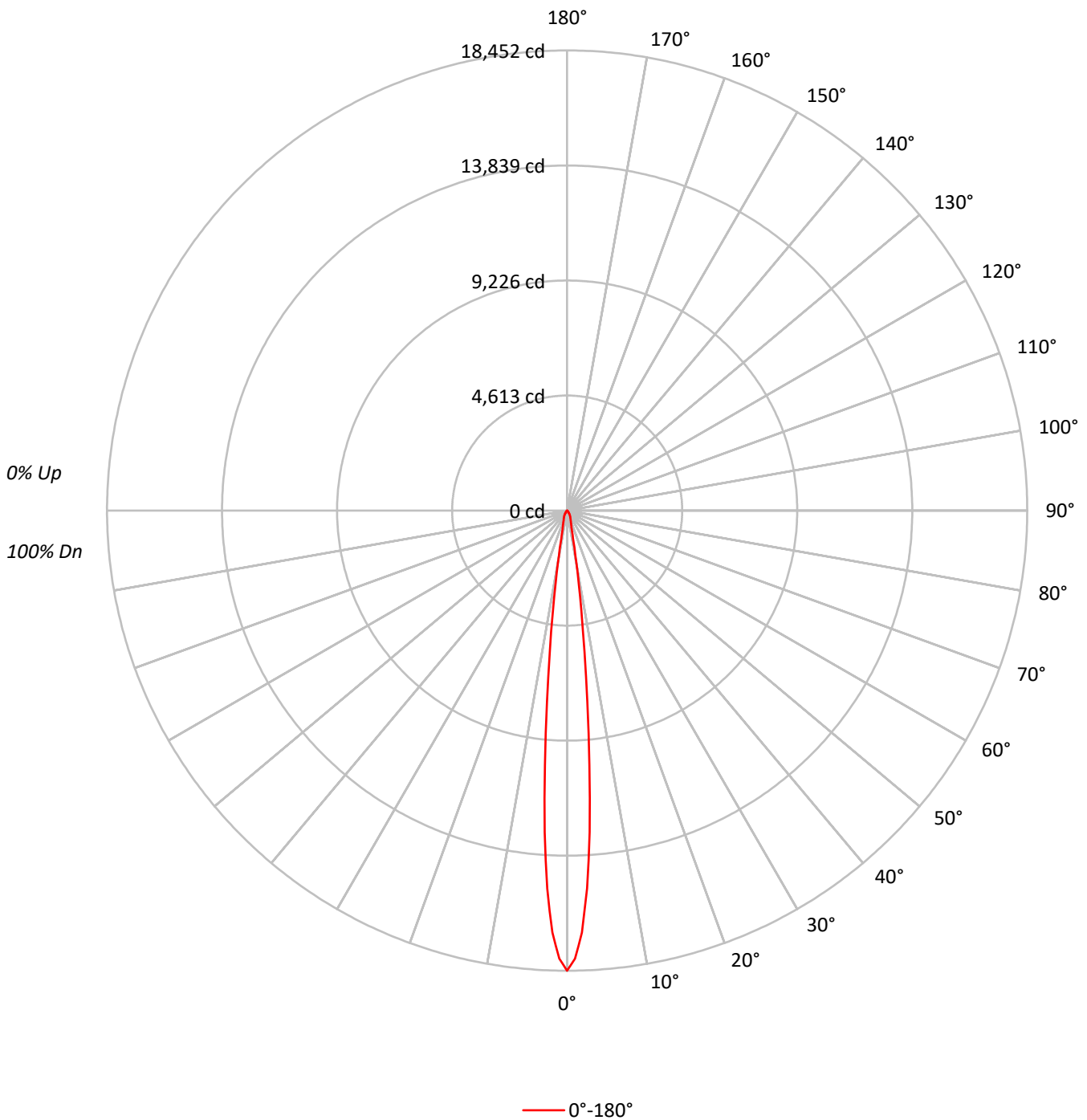
Lumens per Lamp: N/A  
Luminaire Lumens: 1194.4 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.19  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.9  
Input Voltage (V): 120  
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: P257086  
CATALOG NUMBER: L806SMSP8040MB

### Luminous Intensity Polar Plot





TEST NUMBER: P257086

CATALOG NUMBER: L806SMSP8040MB

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	9103642
5°	5072347
10°	1047772
15°	334615
20°	214690
25°	165874
30°	122658
35°	77276
40°	41284
45°	21560
50°	17577
55°	18752
60°	20327
65°	18679
70°	14858
75°	13153
80°	9660
85°	6227



TEST NUMBER: P257086

CATALOG NUMBER: L806SMSP8040MB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.7	57.6
10°-20°	214.5	18.0
20°-30°	139.5	11.7
30°-40°	81.1	6.8
40°-50°	27.3	2.3
50°-60°	19.8	1.7
60°-70°	15.7	1.3
70°-80°	7.2	0.6
80°-90°	1.7	0.1
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°	1041.7	87.2
0°-40°	1122.7	94.0
0°-60°	1169.8	97.9
0°-90°	1194.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	18452	
5°	10242	688
15°	655	215
25°	305	139
35°	128	81
45°	31	27
55°	22	20
65°	16	16
75°	7	7
85°	1	2
90°	0	



TEST NUMBER: P257086

CATALOG NUMBER: L806SMSP8040MB

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	18451.6
1°	17969.4
2°	16929.4
3°	15179.3
4°	12927.6
5°	10241.7
6°	7705.9
7°	5702.7
8°	4083.2
9°	2914.9
10°	2091.4
11°	1515.3
12°	1131.6
13°	889.9
14°	744.5
15°	655.1
17.5°	513.1
20°	408.9
22.5°	350.5
25°	304.7
27.5°	260.0
30°	215.3
32.5°	167.2
35°	128.3
37.5°	92.8
40°	64.1
42.5°	43.5
45°	30.9
47.5°	25.2
50°	22.9
52.5°	22.9
55°	21.8
57.5°	21.8
60°	20.6
62.5°	19.5
65°	16.0
67.5°	12.6
70°	10.3
72.5°	8.0
75°	6.9
77.5°	5.7
80°	3.4
82.5°	2.3
85°	1.1
87.5°	1.1



TEST NUMBER: P257086

CATALOG NUMBER: L806SMSP8040MB

CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0.0}$

(END OF REPORT)