

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: P257053

Luminaire Tested: **L806SMNF8040MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257053
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L806SMNF8040MB
Description: HALO LED SMALL OUTPUT TRACK FIXTURE 06 WITH NARROW FLOOD OPTIC,
MATTE BLACK
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1805-754-11)
Light Source: (5) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRICAL DRIVER

Summary

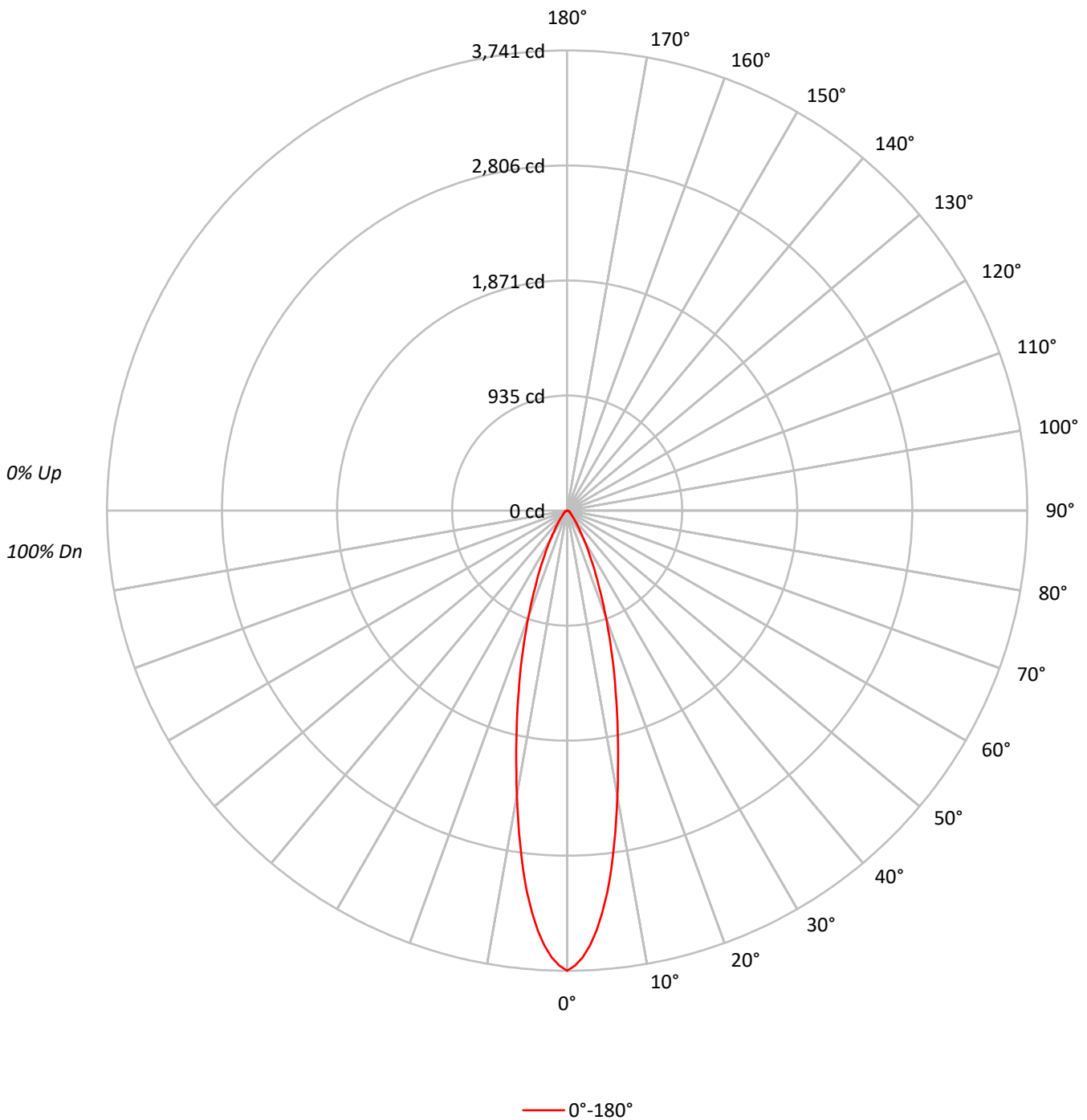
Lumens per Lamp: N/A
Luminaire Lumens: 1136.5 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.47
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

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



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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	114	111	109	107	112	109	107	105	105	104	102		102	100	99		98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	92	91	89
3	105	99	94	91	103	97	93	90	95	92	89		93	90	87		90	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84		89	85	83		87	84	82	80
5	96	89	84	80	95	88	84	80	87	82	79		85	81	79		83	80	78	77
6	93	85	80	76	91	84	79	76	83	79	75		82	78	75		80	77	75	73
7	89	81	76	73	88	81	76	72	80	75	72		78	75	72		77	74	71	70
8	86	78	73	69	85	78	73	69	76	72	69		76	72	69		75	71	69	67
9	83	75	70	67	82	75	70	67	74	69	66		73	69	66		72	69	66	65
10	80	72	67	64	79	72	67	64	71	67	64		70	66	64		70	66	64	62

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1845930
5°	1624912
10°	1179382
15°	778793
20°	481202
25°	277527
30°	155985
35°	86913
40°	53135
45°	36771
50°	29014
55°	24601
60°	21511
65°	18679
70°	16589
75°	15250
80°	13070
85°	13020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.6	24.9
10°-20°	421.2	37.1
20°-30°	241.3	21.2
30°-40°	96.2	8.5
40°-50°	42.2	3.7
50°-60°	26.1	2.3
60°-70°	16.3	1.4
70°-80°	8.2	0.7
80°-90°	2.5	0.2
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°	945.1	83.2
0°-40°	1041.3	91.6
0°-60°	1109.6	97.6
0°-90°	1136.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3741	
5°	3281	283
15°	1525	421
25°	510	241
35°	144	96
45°	53	42
55°	29	26
65°	16	16
75°	8	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3741.4
1°	3700.2
2°	3633.7
3°	3542.1
4°	3421.8
5°	3280.9
6°	3118.2
7°	2940.7
8°	2744.8
9°	2547.7
10°	2354.1
11°	2165.1
12°	1991.0
13°	1827.2
14°	1669.1
15°	1524.7
16°	1389.6
17°	1261.3
18°	1138.7
19°	1024.1
20°	916.5
22.5°	686.2
25°	509.8
26°	451.4
27°	399.8
28°	352.8
29°	310.4
30°	273.8
32.5°	197.0
35°	144.3
37.5°	107.7
40°	82.5
42.5°	64.2
45°	52.7
47.5°	43.5
50°	37.8
52.5°	33.2
55°	28.6
57.5°	25.2
60°	21.8
62.5°	19.5
65°	16.0
67.5°	13.7
70°	11.5
72.5°	9.2



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CANDELA DISTRIBUTION (continued):

	0°
75°	8.0
77.5°	5.7
80°	4.6
82.5°	3.4
85°	2.3
87.5°	1.1
90°	0.0

(END OF REPORT)