

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: P257084

Luminaire Tested: **L806SMSP8027MB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257084  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L806SMSP8027MB  
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) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRICAL DRIVER

**Summary**

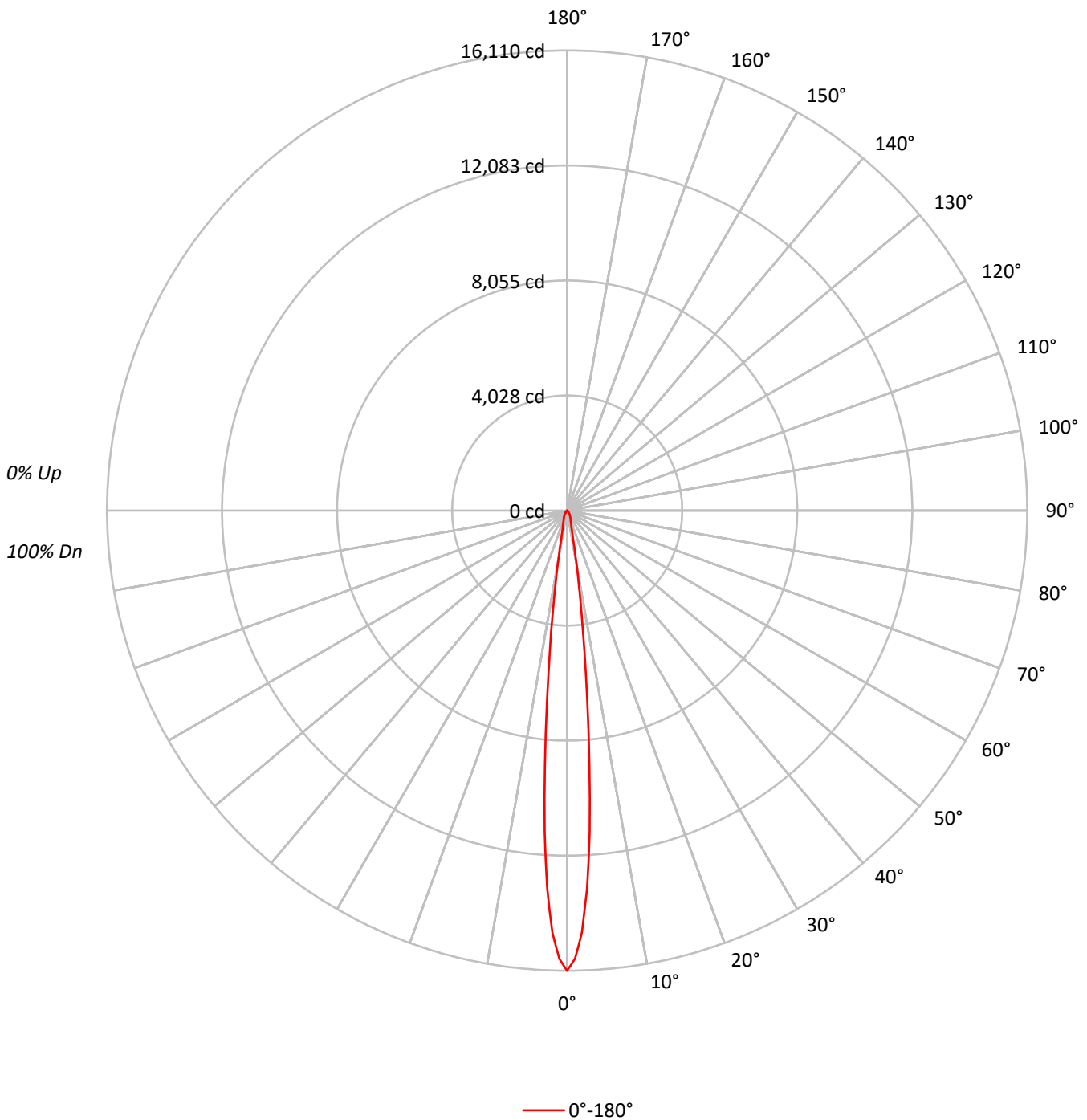
Lumens per Lamp: N/A  
Luminaire Lumens: 1042.9 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Spacing Criteria (0/90/45): 0.19 / 0.19 / 0.19  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.8  
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	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	100	100	
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96	96	96	96	
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93	93	93	93	
3	108	103	99	97	106	102	99	96	99	97	94	97	95	93	95	93	92	90	90	90	90	
4	105	99	95	92	103	98	95	92	96	93	91	94	92	90	93	91	89	88	88	88	88	
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	87	85	85	85	85	
6	99	93	89	86	98	93	89	86	91	88	86	90	87	85	89	86	84	83	83	83	83	
7	97	91	87	84	96	90	86	84	89	86	83	88	85	83	87	85	83	82	82	82	82	
8	95	89	85	82	94	88	84	82	87	84	82	86	83	81	86	83	81	80	80	80	80	
9	93	87	83	80	92	86	83	80	85	82	80	85	82	80	84	81	79	79	79	79	79	
10	91	85	81	79	90	84	81	79	84	81	78	83	80	78	83	80	78	77	77	77	77	

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

	0°
0°	7948345
5°	4428652
10°	914809
15°	292169
20°	187441
25°	144806
30°	107105
35°	67458
40°	36067
45°	18839
50°	15351
55°	16343
60°	17762
65°	16344
70°	12983
75°	11438
80°	8524
85°	5661



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.4	57.6
10°-20°	187.3	18.0
20°-30°	121.8	11.7
30°-40°	70.8	6.8
40°-50°	23.8	2.3
50°-60°	17.3	1.7
60°-70°	13.7	1.3
70°-80°	6.3	0.6
80°-90°	1.5	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°	909.5	87.2
0°-40°	980.3	94.0
0°-60°	1021.3	97.9
0°-90°	1042.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1042.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	16110	
5°	8942	600
15°	572	187
25°	266	122
35°	112	71
45°	27	24
55°	19	17
65°	14	14
75°	6	6
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

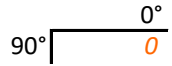
0°	
0°	16110
1°	15689
2°	14781
3°	13253
4°	11287
5°	8942
6°	6728
7°	4979
8°	3565
9°	2545
10°	1826
11°	1323
12°	988
13°	777
14°	650
15°	572
17.5°	448
20°	357
22.5°	306
25°	266
27.5°	227
30°	188
32.5°	146
35°	112
37.5°	81
40°	56
42.5°	38
45°	27
47.5°	22
50°	20
52.5°	20
55°	19
57.5°	19
60°	18
62.5°	17
65°	14
67.5°	11
70°	9
72.5°	7
75°	6
77.5°	5
80°	3
82.5°	2
85°	1
87.5°	1



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CANDELA DISTRIBUTION (continued):



(END OF REPORT)