

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: P14190

Luminaire Tested: **L806SMWS8040 / L807SMWS8040**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14190  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L806SMWS8040 / L807SMWS8040  
Description: HALO LED 806/7 SMALL, WS, 4000K  
Light Source: [5] 4000K LEDS  
Ballast/Driver: [1] ELECTRONIC DRIVER

**Summary**

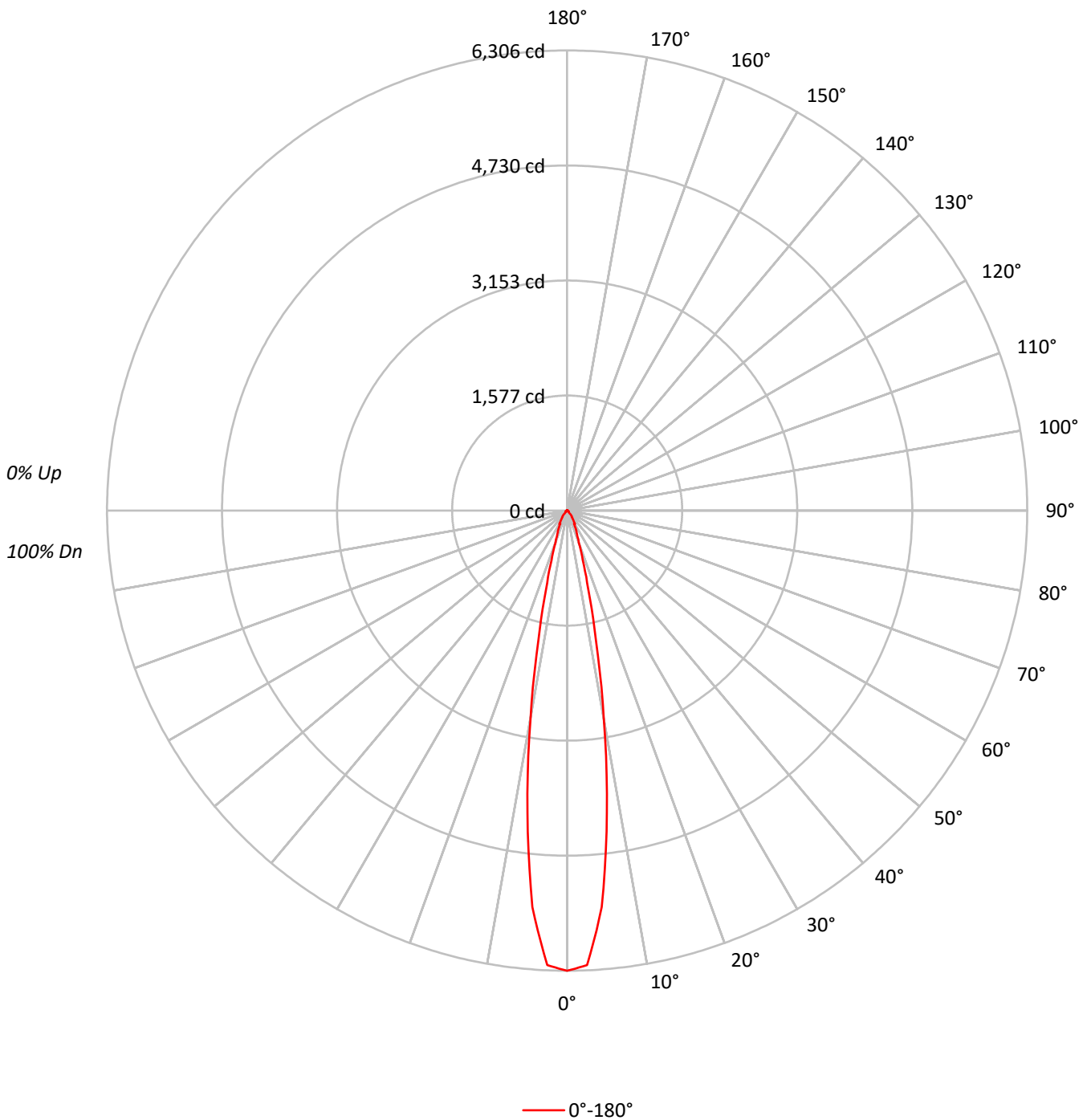
Lumens per Lamp: N/A  
Luminaire Lumens: 1054.4 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.9  
Input Voltage (V): NR  
Input Current (Ain): 0.09930  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 3 HR  
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	112	110	108	112	110	108	107	106	105	103		102	101	100		99	98	97	96
2	110	106	103	100	108	105	102	99	102	99	97		99	97	95		96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	92		95	93	91		93	91	90	88
4	103	97	93	90	101	96	92	89	94	91	88		92	90	87		91	88	86	85
5	100	94	89	86	98	93	89	86	91	87	85		89	86	84		88	85	83	82
6	97	90	86	83	96	89	85	82	88	84	82		87	84	81		86	83	81	80
7	94	87	83	80	93	87	82	80	85	82	79		84	81	79		83	81	78	77
8	91	84	80	77	90	84	80	77	83	79	77		82	79	76		81	78	76	75
9	89	82	78	75	88	82	78	75	81	77	75		80	77	74		79	76	74	73
10	87	80	76	73	86	79	75	73	79	75	73		78	75	72		78	74	72	71

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

	0°
0°	3111251
5°	2700676
10°	1449366
15°	564416
20°	247821
25°	157327
30°	123626
35°	74686
40°	59254
45°	26514
50°	13816
55°	16343
60°	7894
65°	5837
70°	4328
75°	5719
80°	8524
85°	22644



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	433.3	41.1
10°-20°	342.2	32.5
20°-30°	133.6	12.7
30°-40°	83.6	7.9
40°-50°	29.0	2.7
50°-60°	14.3	1.4
60°-70°	6.0	0.6
70°-80°	9.7	0.9
80°-90°	2.6	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°	909.1	86.2
0°-40°	992.7	94.2
0°-60°	1036.0	98.3
0°-90°	1054.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6306	
5°	5453	433
15°	1105	342
25°	289	134
35°	124	84
45°	38	29
55°	19	14
65°	5	6
75°	3	10
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	6306
2.5°	6235
5°	5453
7.5°	4175
10°	2893
12.5°	1808
15°	1105
17.5°	709
20°	472
22.5°	351
25°	289
27.5°	202
30°	217
32.5°	158
35°	124
37.5°	105
40°	92
42.5°	40
45°	38
47.5°	20
50°	18
52.5°	17
55°	19
57.5°	15
60°	8
62.5°	12
65°	5
67.5°	2
70°	3
72.5°	22
75°	3
77.5°	9
80°	3
82.5°	3
85°	4
87.5°	1
90°	0

(END OF REPORT)