

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: P14200

Luminaire Tested: **L806SMSP8030 / L807SMSP8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14200  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L806SMSP8030 / L807SMSP8030  
Description: HALO LED 806/7 SMALL, SP, 30000K  
Light Source: [5] 30000K LEDS  
Ballast/Driver: [1] ELECTRONIC DRIVER

**Summary**

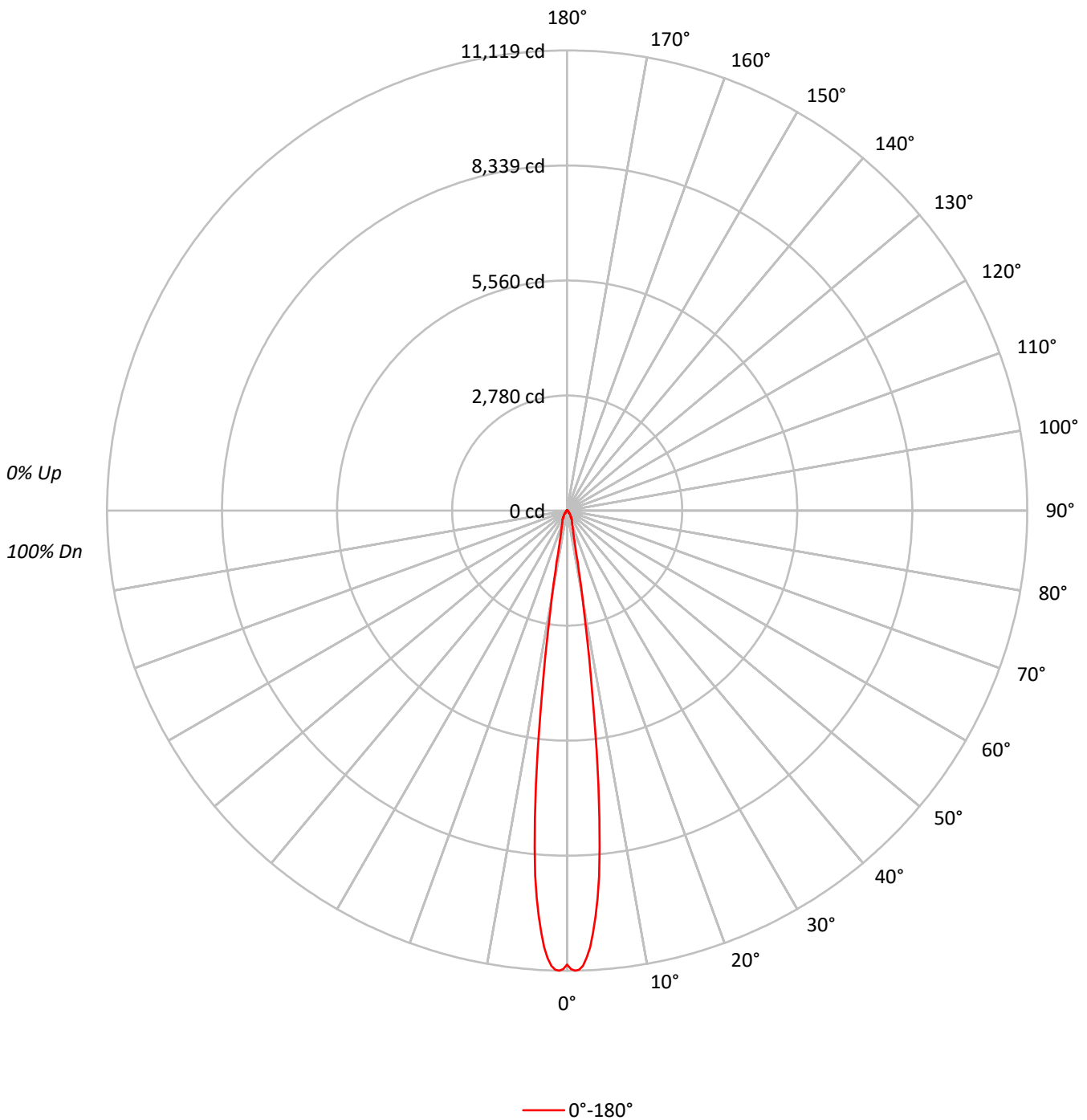
Lumens per Lamp: N/A  
Luminaire Lumens: 1073.4 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.23  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 12  
Input Voltage (V): NR  
Input Current (Ain): 0.10011  
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	114	112	110	108	112	110	108	106	106	105	103		102	101	100		99	98	97	96
2	110	107	103	101	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	93		96	93	91		94	92	90	89
4	103	98	94	91	102	97	93	90	95	92	89		93	90	88		91	89	87	86
5	101	94	90	87	99	94	90	87	92	89	86		90	88	85		89	87	85	83
6	98	91	87	84	97	91	87	84	89	86	83		88	85	83		87	84	82	81
7	95	89	85	82	94	88	84	82	87	84	81		86	83	81		85	82	80	79
8	93	87	82	80	92	86	82	80	85	82	79		84	81	79		83	81	79	78
9	91	85	81	78	90	84	80	78	83	80	77		83	79	77		82	79	77	76
10	89	83	79	76	88	82	79	76	82	78	76		81	78	76		80	78	76	75

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

	0°
0°	5412374
5°	4385564
10°	1040057
15°	299830
20°	184290
25°	147528
30°	112802
35°	87334
40°	40576
45°	31398
50°	22259
55°	18064
60°	16775
65°	19846
70°	31736
75°	32407
80°	8524
85°	67931



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	585.8	54.6
10°-20°	196.4	18.3
20°-30°	121.0	11.3
30°-40°	85.6	8.0
40°-50°	33.7	3.1
50°-60°	14.7	1.4
60°-70°	15.9	1.5
70°-80°	12.5	1.2
80°-90°	7.8	0.7
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°	903.3	84.2
0°-40°	989.0	92.1
0°-60°	1037.3	96.6
0°-90°	1073.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1073.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	10970	
5°	8855	586
15°	587	196
25°	271	121
35°	145	86
45°	45	34
55°	21	15
65°	17	16
75°	17	13
85°	12	8
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	10970
0.5°	11083
1°	11119
1.5°	11101
2°	11010
2.5°	10818
3°	10568
3.5°	10228
4°	9836
4.5°	9392
5°	8855
5.5°	8188
6°	7479
7°	5816
7.5°	4964
8°	4210
9°	2949
10°	2076
11°	1490
12°	1071
12.5°	927
13°	814
14°	682
15°	587
16°	525
17°	447
17.5°	443
18°	439
19°	392
20°	351
21°	325
22°	321
23°	297
24°	286
25°	271
26°	256
27°	231
27.5°	235
28°	227
29°	175
30°	198
31°	191
32°	162
32.5°	159
33°	158



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**CANDELA DISTRIBUTION (continued):**

	0°
34°	150
35°	145
36°	131
37°	118
37.5°	114
38°	98
39°	101
40°	63
41°	54
42°	68
42.5°	62
43°	55
44°	32
45°	45
46°	43
47°	47
47.5°	40
48°	28
49°	21
50°	29
52.5°	0
55°	21
57.5°	21
60°	17
62.5°	6
65°	17
67.5°	21
70°	22
72.5°	7
75°	17
77.5°	11
80°	3
82.5°	9
85°	12
87.5°	6
90°	0

(END OF REPORT)