

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: P14184

Luminaire Tested: **L806SMWS8027 / L807SMWS8027**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14184  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L806SMWS8027 / L807SMWS8027  
Description: HALO LED 806/7 SMALL, WS, 2700K  
Light Source: [5] 2700K LEDS  
Ballast/Driver: [1] ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 963.6 lumens  
Efficiency: N/A  
Efficacy: 77.7 lumens/watt  
Spacing Criteria (0/90/45): 0.32 / 0.32 / 0.32  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

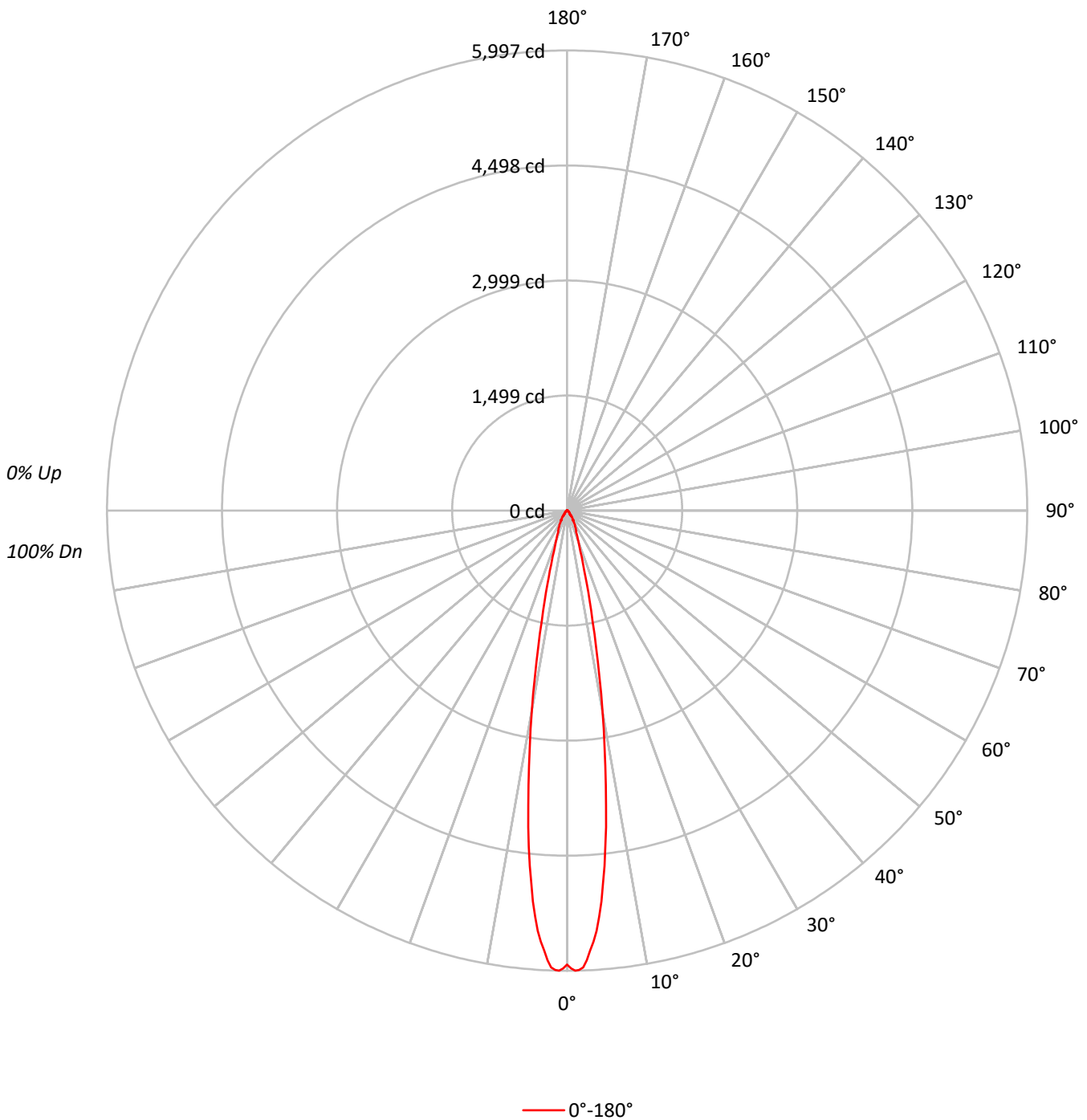
Input Watts (W): 12.4  
Input Voltage (V): NR  
Input Current (Ain): 0.10419  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 3 HR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	93	92
3	106	101	97	94	105	100	97	94	98	95	92	95	93	91	93	91	89	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	100	93	89	86	98	92	88	85	91	87	85	89	86	84	88	85	83	82
6	97	90	86	82	95	89	85	82	88	84	82	87	83	81	86	83	81	79
7	94	87	83	79	93	86	82	79	85	82	79	84	81	79	83	80	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	81	77	75	81	77	74	80	77	74	79	76	74	73
10	87	80	76	73	86	79	75	73	79	75	73	78	75	72	77	74	72	71

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

	0°
0°	2918833
5°	2532781
10°	1328126
15°	504655
20°	221568
25°	144806
30°	96280
35°	71072
40°	48305
45°	35585
50°	19189
55°	15483
60°	13815
65°	14009
70°	5770
75°	13344
80°	11365
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.4	41.8
10°-20°	301.0	31.2
20°-30°	125.2	13.0
30°-40°	69.8	7.2
40°-50°	31.0	3.2
50°-60°	13.5	1.4
60°-70°	12.1	1.3
70°-80°	5.1	0.5
80°-90°	3.5	0.4
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°	828.6	86.0
0°-40°	898.3	93.2
0°-60°	942.8	97.8
0°-90°	963.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5916	
5°	5114	402
15°	988	301
25°	266	125
35°	118	70
45°	51	31
55°	18	14
65°	12	12
75°	7	5
85°	0	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	5916
0.5°	5966
1°	5997
1.5°	5989
2°	5957
2.5°	5864
3°	5739
3.5°	5629
4°	5491
4.5°	5310
5°	5114
5.5°	4881
6°	4658
7°	4157
7.5°	3882
8°	3613
9°	3120
10°	2651
11°	2207
12°	1817
12.5°	1648
13°	1471
14°	1210
15°	988
16°	814
17°	665
17.5°	630
18°	560
19°	493
20°	422
21°	375
22°	346
23°	298
24°	293
25°	266
26°	253
27°	224
27.5°	220
28°	216
29°	206
30°	169
31°	134
32°	162
32.5°	150
33°	141



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**CANDELA DISTRIBUTION (continued):**

	0°
34°	140
35°	118
36°	57
37°	96
37.5°	95
38°	85
39°	75
40°	75
41°	54
42°	37
42.5°	52
43°	48
44°	39
45°	51
46°	41
47°	21
47.5°	9
48°	29
49°	38
50°	25
52.5°	9
55°	18
57.5°	14
60°	14
62.5°	12
65°	12
67.5°	16
70°	4
72.5°	0
75°	7
77.5°	8
80°	4
82.5°	6
85°	0
87.5°	5
90°	0

(END OF REPORT)