

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: P14187

Luminaire Tested: **L806SMWS8030 / L807SMWS8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14187
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L806SMWS8030 / L807SMWS8030
Description: HALO LED 806/7 SMALL, WS, 3000K
Light Source: [5] 3000K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

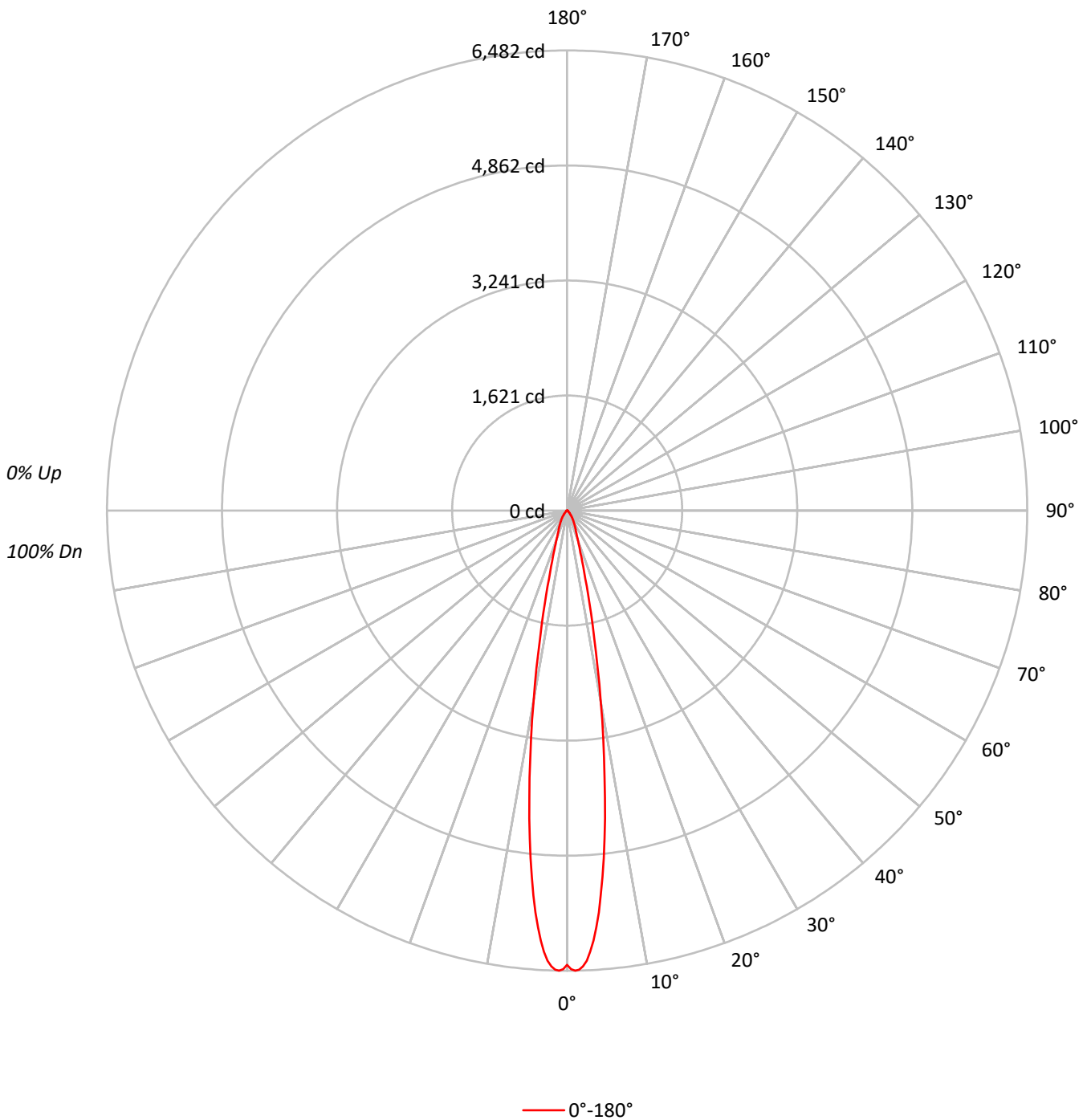
Lumens per Lamp: N/A
Luminaire Lumens: 1001.8 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): 0.31 / 0.31 / 0.31
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 12.1
Input Voltage (V): NR
Input Current (Ain): 0.10122
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 13 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	109	112	110	109	107	106	105	104		103	102	101		99	98	98	96
2	111	107	103	101	108	105	102	100	102	100	98		99	97	95		96	95	94	92
3	107	102	98	95	105	100	97	94	98	95	93		96	93	91		93	92	90	88
4	103	97	93	90	102	96	92	89	94	91	88		92	90	87		91	88	87	85
5	100	94	89	86	98	93	89	86	91	88	85		90	87	84		88	86	84	82
6	97	90	86	83	96	90	85	82	88	85	82		87	84	81		86	83	81	80
7	94	87	83	80	93	87	83	80	86	82	79		85	81	79		84	81	78	77
8	91	85	80	77	91	84	80	77	83	79	77		82	79	77		81	79	76	75
9	89	82	78	75	88	82	78	75	81	77	75		80	77	75		79	77	74	73
10	87	80	76	73	86	80	76	73	79	75	73		78	75	73		78	75	72	72

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	3157136
5°	2694732
10°	1364198
15°	506698
20°	231019
25°	148617
30°	103686
35°	72879
40°	43152
45°	32096
50°	18421
55°	16343
60°	14801
65°	5837
70°	8655
75°	0
80°	5683
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.8	42.5
10°-20°	305.4	30.5
20°-30°	128.2	12.8
30°-40°	76.3	7.6
40°-50°	35.8	3.6
50°-60°	17.0	1.7
60°-70°	8.8	0.9
70°-80°	3.4	0.3
80°-90°	1.1	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°	859.4	85.8
0°-40°	935.7	93.4
0°-60°	988.5	98.7
0°-90°	1001.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1001.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6399	
5°	5441	426
15°	992	305
25°	273	128
35°	121	76
45°	46	36
55°	19	17
65°	5	9
75°	0	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6399
0.5°	6459
1°	6482
1.5°	6470
2°	6425
2.5°	6346
3°	6224
3.5°	6069
4°	5886
4.5°	5678
5°	5441
5.5°	5186
6°	4925
7°	4368
7.5°	4079
8°	3796
9°	3246
10°	2723
11°	2257
12°	1844
12.5°	1658
13°	1497
14°	1217
15°	992
16°	816
17°	682
17.5°	626
18°	579
19°	495
20°	440
21°	392
22°	352
23°	321
24°	295
25°	273
26°	251
27°	233
27.5°	224
28°	215
29°	200
30°	182
31°	170
32°	159
32.5°	153
33°	146



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CANDELA DISTRIBUTION (continued):

	0°
34°	133
35°	121
36°	111
37°	100
37.5°	96
38°	92
39°	81
40°	67
41°	67
42°	62
42.5°	57
43°	54
44°	50
45°	46
46°	42
47°	38
47.5°	36
48°	33
49°	31
50°	24
52.5°	25
55°	19
57.5°	13
60°	15
62.5°	11
65°	5
67.5°	9
70°	6
72.5°	6
75°	0
77.5°	3
80°	2
82.5°	2
85°	0
87.5°	1
90°	0

(END OF REPORT)