

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: P14201

Luminaire Tested: **L806SMSP8040 / L807SMSP8040**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14201
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L806SMSP8040 / L807SMSP8040
Description: HALO LED 806/7 SMALL, SP, 40000K
Light Source: [5] 40000K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

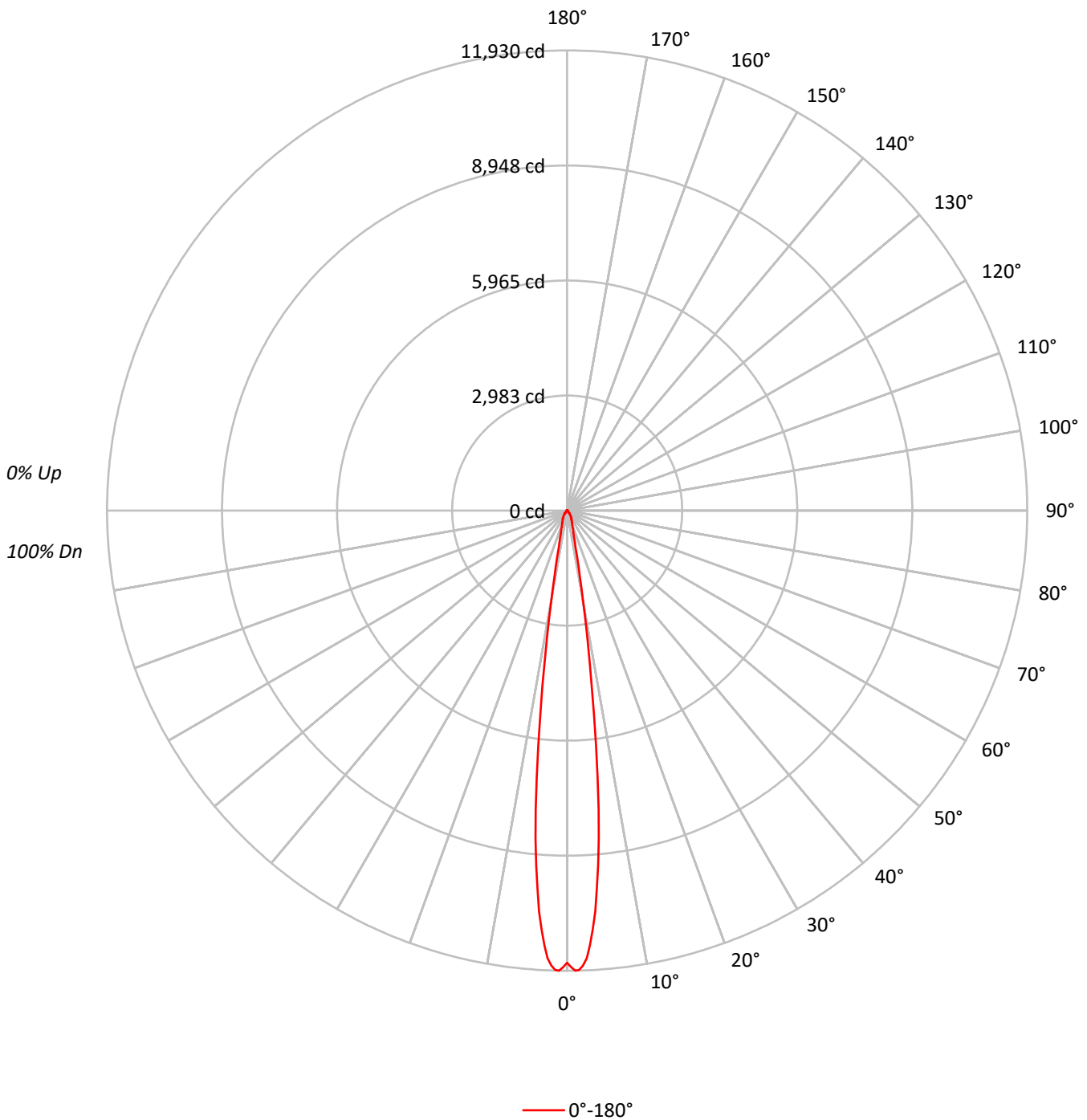
Lumens per Lamp: N/A
Luminaire Lumens: 1127.6 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.23
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 12.2
Input Voltage (V): NR
Input Current (Ain): 0.10230
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	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	99	97	106	102	98	96	99	97	94	97	95	93	95	93	92	90
4	105	99	95	92	103	98	95	92	96	93	91	94	92	90	93	91	89	88
5	102	96	92	89	100	95	91	89	93	90	88	92	89	87	91	88	86	85
6	99	93	89	86	98	92	89	86	91	88	85	90	87	85	89	86	84	83
7	97	90	86	84	96	90	86	83	89	85	83	88	85	83	87	84	82	81
8	94	88	84	82	93	88	84	81	87	83	81	86	83	81	85	82	81	80
9	92	86	82	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78
10	90	84	81	78	90	84	80	78	83	80	78	83	80	78	82	79	77	77

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	5785369
5°	4571784
10°	1182839
15°	334053
20°	202142
25°	149161
30°	127614
35°	94562
40°	47661
45°	4884
50°	12281
55°	10322
60°	22695
65°	9339
70°	11540
75°	0
80°	22730
85°	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	626.1	55.5
10°-20°	222.6	19.7
20°-30°	129.3	11.5
30°-40°	88.0	7.8
40°-50°	31.1	2.8
50°-60°	10.6	0.9
60°-70°	11.0	1.0
70°-80°	4.2	0.4
80°-90°	4.6	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°	978.1	86.7
0°-40°	1066.1	94.5
0°-60°	1107.8	98.2
0°-90°	1127.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1127.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11726	
5°	9231	626
15°	654	223
25°	274	129
35°	157	88
45°	7	31
55°	12	11
65°	8	11
75°	0	4
85°	1	5
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	11726
0.5°	11840
1°	11930
1.5°	11911
2°	11805
2.5°	11612
3°	11288
3.5°	10883
4°	10418
4.5°	9830
5°	9231
5.5°	8555
6°	7798
7°	6145
7.5°	5341
8°	4593
9°	3332
10°	2361
11°	1705
12°	1253
12.5°	1094
13°	939
14°	784
15°	654
16°	586
17°	535
17.5°	491
18°	465
19°	414
20°	385
21°	354
22°	333
23°	333
24°	278
25°	274
26°	270
27°	253
27.5°	233
28°	241
29°	213
30°	224
31°	203
32°	176
32.5°	178
33°	168



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CANDELA DISTRIBUTION (continued):

	0°
34°	164
35°	157
36°	97
37°	118
37.5°	114
38°	103
39°	91
40°	74
41°	80
42°	63
42.5°	51
43°	60
44°	48
45°	7
46°	27
47°	40
47.5°	26
48°	27
49°	23
50°	16
52.5°	0
55°	12
57.5°	15
60°	23
62.5°	9
65°	8
67.5°	12
70°	8
72.5°	6
75°	0
77.5°	2
80°	8
82.5°	10
85°	1
87.5°	2
90°	0

(END OF REPORT)