

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: P14189

Luminaire Tested: **L806SMNF8040 / L807SMNF8040**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P14189  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L806SMNF8040 / L807SMNF8040  
Description: HALO LED 806/7 SMALL, NF, 4000K  
Light Source: [5] 4000K LEDS  
Ballast/Driver: [1] ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 948.4 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 0.5 / 0.5 / 0.52  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

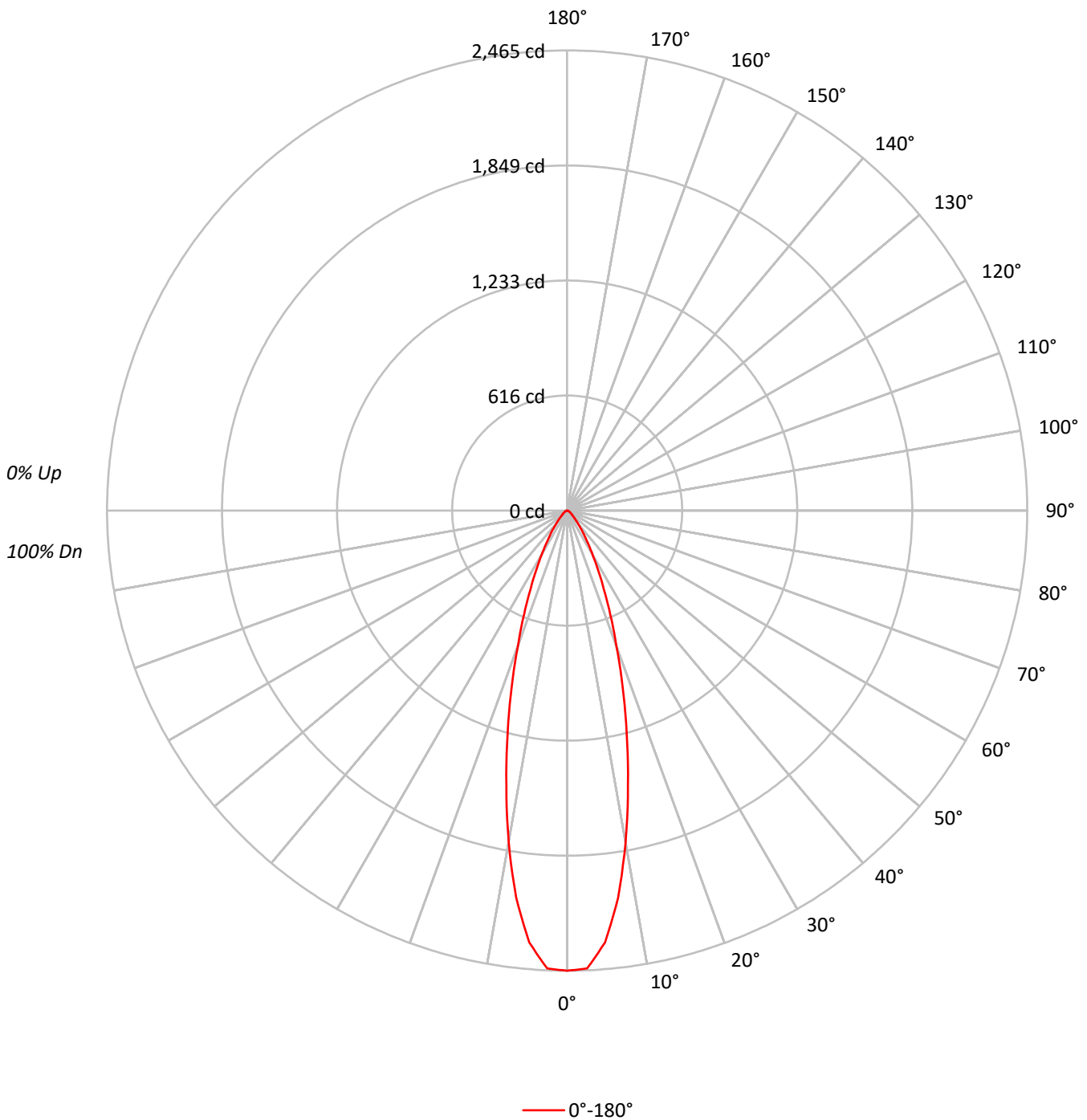
Input Watts (W): 12.1  
Input Voltage (V): NR  
Input Current (Ain): 0.10157  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: 13 HR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	111	109	107	111	109	107	105	105	103	102		101	100	99		98	97	96	94
2	109	104	100	97	107	103	99	96	99	97	94		96	94	92		94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88		92	89	86		90	87	85	84
4	100	93	88	84	98	92	87	83	89	86	82		88	84	81		86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78		84	80	77		82	79	76	75
6	92	84	78	74	90	83	78	74	81	77	74		80	76	73		79	75	73	71
7	88	80	74	71	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	85	76	71	67	83	76	71	67	75	70	67		74	70	67		73	69	66	65
9	81	73	68	64	80	72	68	64	72	67	64		71	67	64		70	66	64	62
10	78	70	65	62	78	70	65	61	69	64	61		68	64	61		67	64	61	60

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

	0°
0°	1216181
5°	1150003
10°	903286
15°	627754
20°	405334
25°	253139
30°	154390
35°	94562
40°	56677
45°	36980
50°	26097
55°	21505
60°	17762
65°	15177
70°	12983
75°	9531
80°	8524
85°	11322



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.5	21.6
10°-20°	339.9	35.8
20°-30°	218.1	23.0
30°-40°	101.7	10.7
40°-50°	42.2	4.4
50°-60°	21.6	2.3
60°-70°	12.5	1.3
70°-80°	5.8	0.6
80°-90°	2.0	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°	762.6	80.4
0°-40°	864.3	91.1
0°-60°	928.1	97.9
0°-90°	948.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	948.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2465	
5°	2322	205
15°	1229	340
25°	465	218
35°	157	102
45°	53	42
55°	25	22
65°	13	12
75°	5	6
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2465
2.5°	2455
5°	2322
7.5°	2090
10°	1803
12.5°	1506
15°	1229
17.5°	985
20°	772
22.5°	602
25°	465
27.5°	355
30°	271
32.5°	206
35°	157
37.5°	119
40°	88
42.5°	68
45°	53
47.5°	39
50°	34
52.5°	26
55°	25
57.5°	20
60°	18
62.5°	14
65°	13
67.5°	10
70°	9
72.5°	6
75°	5
77.5°	5
80°	3
82.5°	3
85°	2
87.5°	1
90°	0

(END OF REPORT)