

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: P14183

Luminaire Tested: **L806SMNF8027 / L807SMNF8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14183
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L806SMNF8027 / L807SMNF8027
Description: HALO LED 806/7 SMALL, NF, 2700K
Light Source: [5] 2700K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 876.8 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.54
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

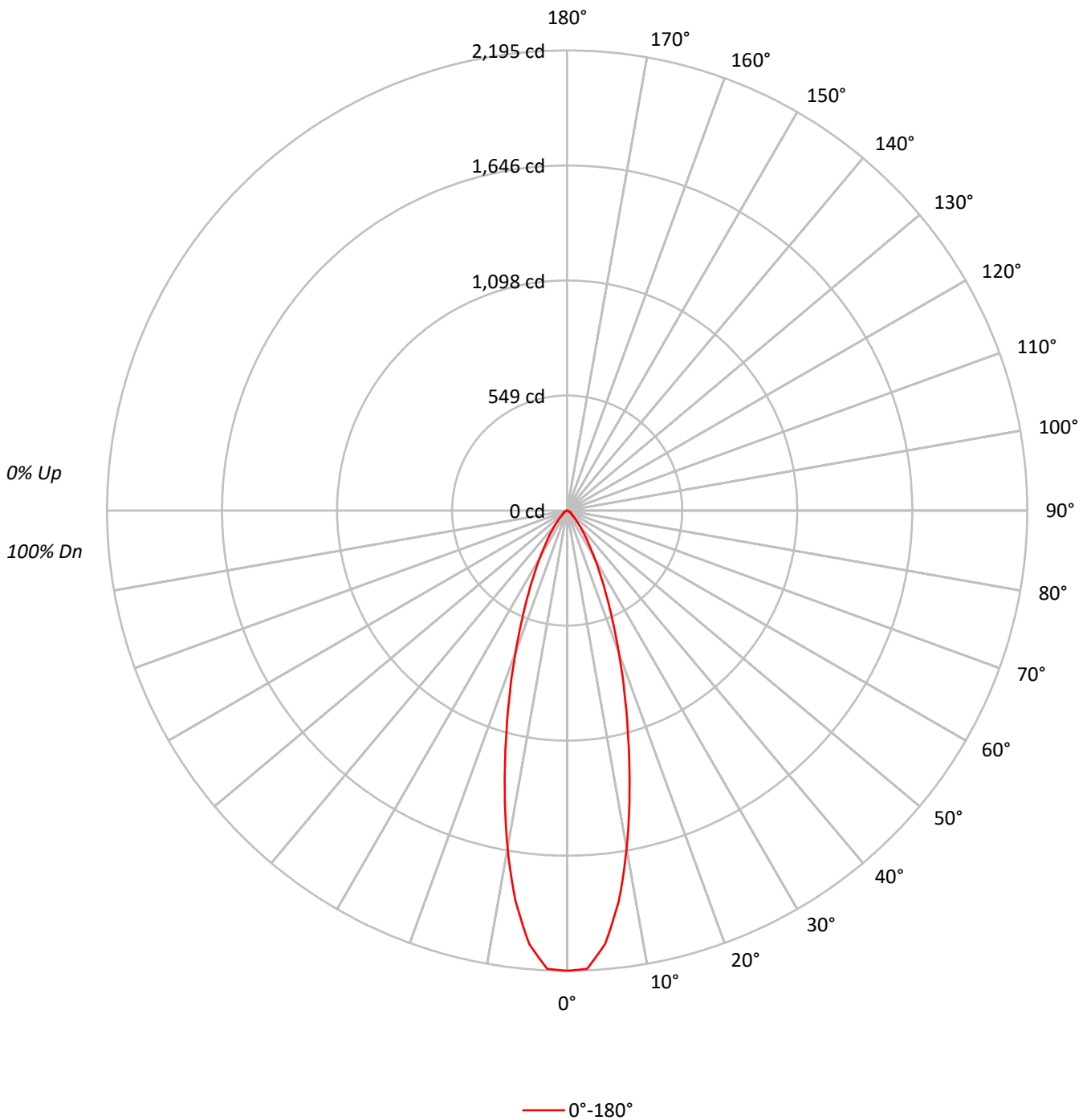
Input Watts (W): 12.3
Input Voltage (V): NR
Input Current (Ain): 0.10295
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 3 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	102	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83
4	99	93	88	84	98	91	87	83	89	85	82	87	84	81	86	83	80	79
5	95	88	82	79	94	87	82	78	85	81	77	83	80	77	82	79	76	75
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	78	75	72	71
7	88	79	74	70	86	79	74	70	78	73	70	76	72	69	75	72	69	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	73	67	64	80	72	67	64	71	67	63	70	66	63	70	66	63	62
10	78	70	64	61	77	69	64	61	68	64	61	68	64	61	67	63	61	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1082968
5°	1027673
10°	820122
15°	574632
20°	376981
25°	237896
30°	147554
35°	90948
40°	56033
45°	35585
50°	24562
55°	18924
60°	15788
65°	12842
70°	8655
75°	7625
80°	11365
85°	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.7	21.0
10°-20°	311.5	35.5
20°-30°	205.3	23.4
30°-40°	97.8	11.2
40°-50°	40.7	4.6
50°-60°	20.3	2.3
60°-70°	11.1	1.3
70°-80°	5.3	0.6
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°	700.5	79.9
0°-40°	798.3	91.0
0°-60°	859.3	98.0
0°-90°	876.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	876.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2195	
5°	2075	184
15°	1125	312
25°	437	205
35°	151	98
45°	51	41
55°	22	20
65°	11	11
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2195
2.5°	2188
5°	2075
7.5°	1881
10°	1637
12.5°	1375
15°	1125
17.5°	907
20°	718
22.5°	563
25°	437
27.5°	339
30°	259
32.5°	198
35°	151
37.5°	114
40°	87
42.5°	67
45°	51
47.5°	36
50°	32
52.5°	26
55°	22
57.5°	19
60°	16
62.5°	13
65°	11
67.5°	10
70°	6
72.5°	6
75°	4
77.5°	5
80°	4
82.5°	1
85°	1
87.5°	0
90°	0

(END OF REPORT)