

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: P14185

Luminaire Tested: **L806SMFL8027 / L807SMFL8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14185
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L806SMFL8027 / L807SMFL8027
Description: HALO LED 806/7 SMALL, FL, 2700K
Light Source: [5] 2700K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

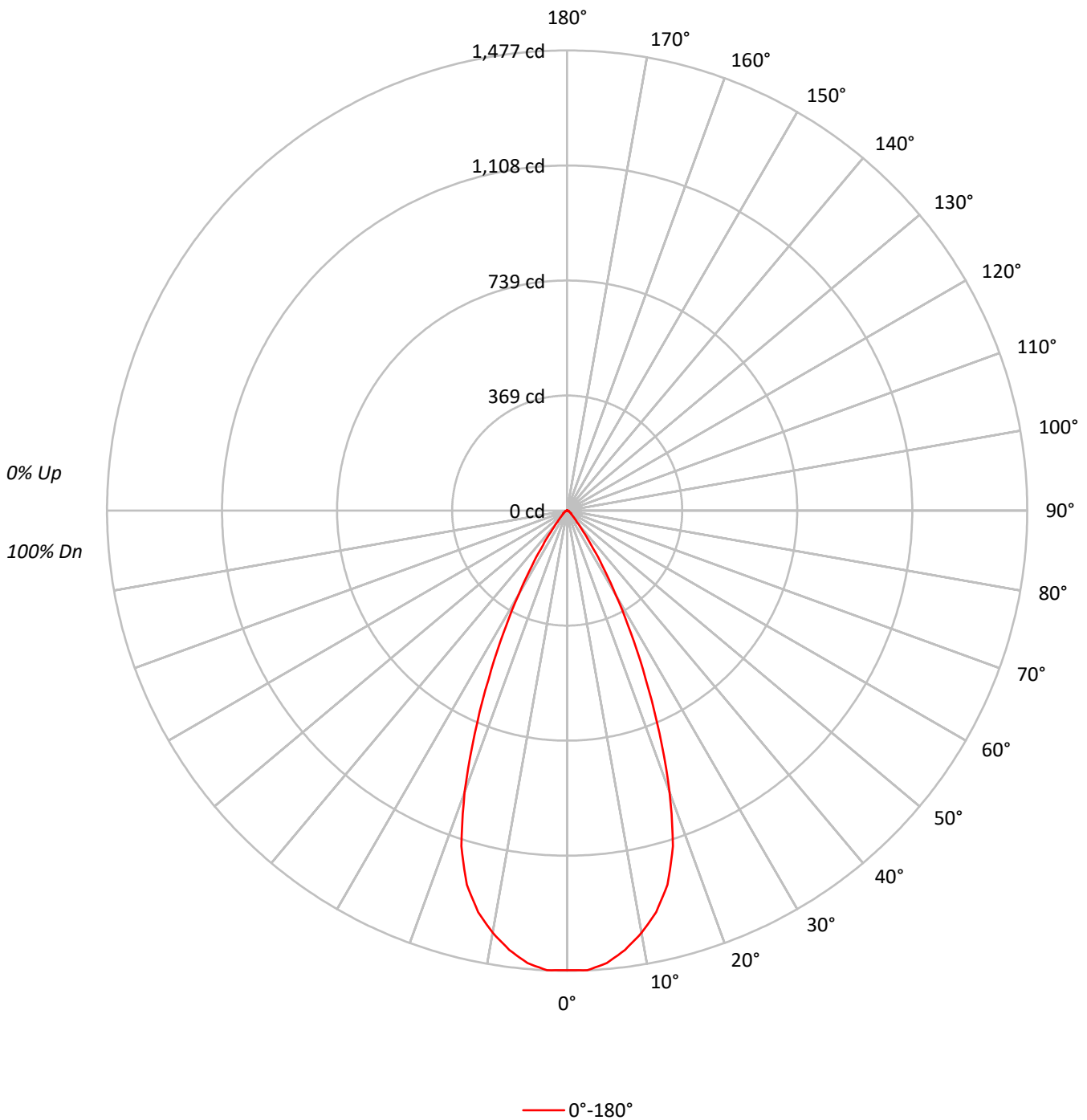
Lumens per Lamp: N/A
Luminaire Lumens: 889.4 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 0.76 / 0.76 / 0.7
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 12.4
Input Voltage (V): NR
Input Current (Ain): 0.10338
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	101	98	107	103	99	96	99	97	94		97	94	92		94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88		92	89	87		90	87	85	84
4	100	93	88	84	98	92	87	83	90	86	82		88	84	81		86	83	81	79
5	95	88	82	79	94	87	82	78	85	81	78		83	80	77		82	79	76	75
6	91	83	78	74	90	82	77	74	81	77	73		80	76	73		78	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69		76	72	69		75	71	69	67
8	84	75	70	66	83	75	70	66	74	69	66		73	69	66		72	68	65	64
9	81	72	67	63	80	71	66	63	71	66	63		70	66	63		69	65	62	61
10	77	69	64	60	76	68	63	60	68	63	60		67	63	60		66	62	60	58

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	727735
5°	722095
10°	689363
15°	634905
20°	505092
25°	324997
30°	178318
35°	81311
40°	34779
45°	18839
50°	13816
55°	12043
60°	9868
65°	5837
70°	8655
75°	3813
80°	5683
85°	11322



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	15.3
10°-20°	338.7	38.1
20°-30°	274.7	30.9
30°-40°	93.1	10.5
40°-50°	23.2	2.6
50°-60°	12.0	1.4
60°-70°	6.7	0.7
70°-80°	3.2	0.4
80°-90°	1.4	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°	749.8	84.3
0°-40°	842.9	94.8
0°-60°	878.2	98.7
0°-90°	889.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	889.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1475	
5°	1458	136
15°	1243	339
25°	597	275
35°	135	93
45°	27	23
55°	14	12
65°	5	7
75°	2	3
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1475
2.5°	1477
5°	1458
7.5°	1422
10°	1376
12.5°	1320
15°	1243
17.5°	1129
20°	962
22.5°	774
25°	597
27.5°	442
30°	313
32.5°	209
35°	135
37.5°	85
40°	54
42.5°	38
45°	27
47.5°	21
50°	18
52.5°	16
55°	14
57.5°	10
60°	10
62.5°	9
65°	5
67.5°	5
70°	6
72.5°	4
75°	2
77.5°	2
80°	2
82.5°	1
85°	2
87.5°	1
90°	0

(END OF REPORT)