

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: P14191

Luminaire Tested: **L806SMFL8040 / L807SMFL8040**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P14191
Test Lab: INNOVATION CENTER-P1
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L806SMFL8040 / L807SMFL8040
Description: HALO LED 806/7 SMALL, FL, 4000K
Light Source: [5] 4000K LEDS
Ballast/Driver: [1] ELECTRONIC DRIVER

Summary

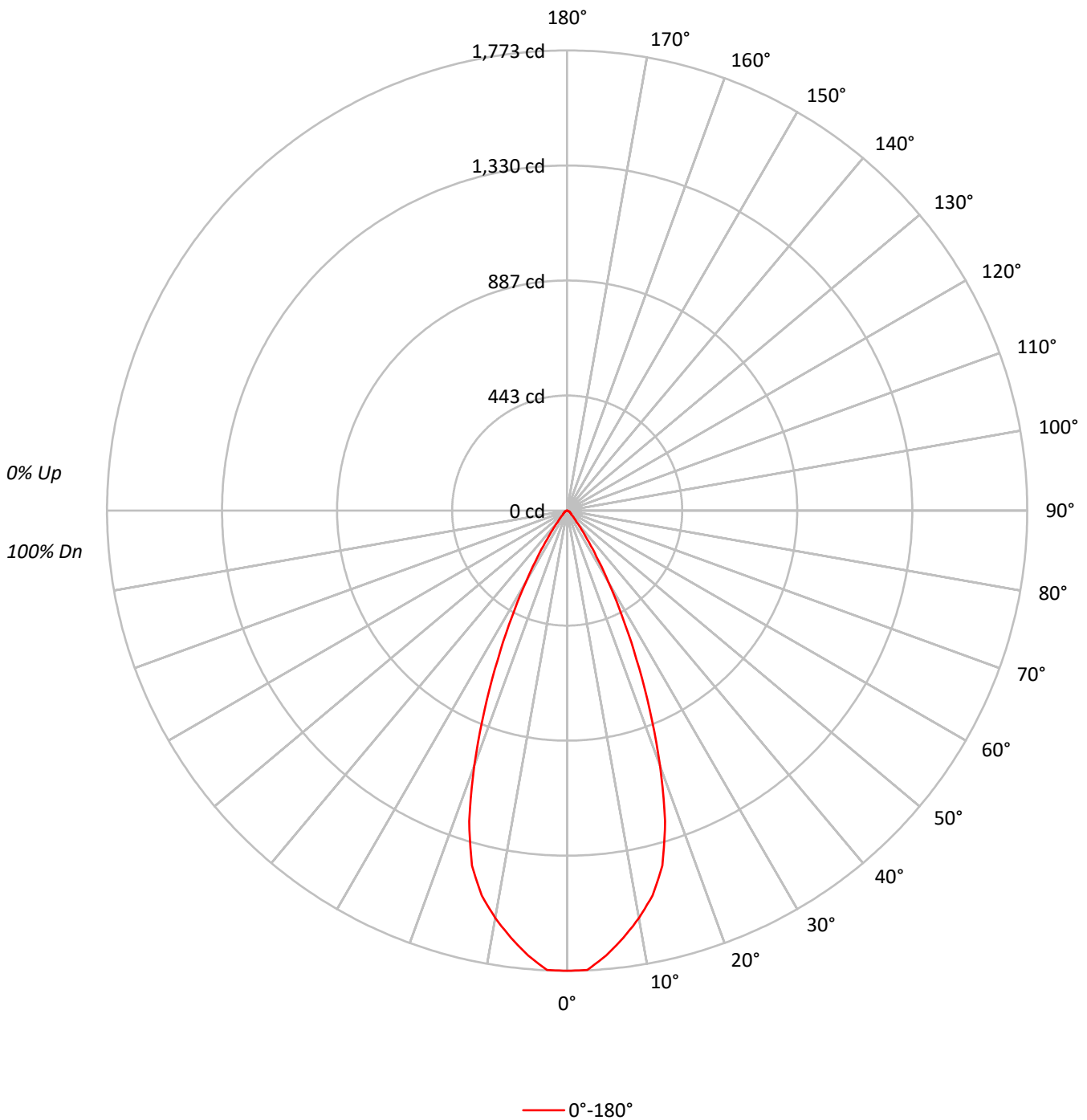
Lumens per Lamp: N/A
Luminaire Lumens: 978.6 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Spacing Criteria (0/90/45): 0.72 / 0.72 / 0.67
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 12
Input Voltage (V): NR
Input Current (Ain): 0.10059
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	112	109	107	105	105	104	102		102	100	99		98	97	96	94
2	109	105	101	98	107	103	100	97	100	97	95		97	95	93		94	92	91	89
3	104	98	94	90	102	97	93	90	95	91	88		92	89	87		90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83		88	85	82		86	83	81	80
5	96	88	83	79	94	87	82	79	86	81	78		84	80	77		82	79	77	75
6	92	84	78	75	90	83	78	74	82	77	74		80	76	73		79	76	73	72
7	88	80	74	71	87	79	74	70	78	73	70		77	73	70		76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67		74	69	66		73	69	66	65
9	81	73	67	64	80	72	67	64	71	67	64		70	66	63		70	66	63	62
10	78	70	64	61	77	69	64	61	68	64	61		68	64	61		67	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	874762
5°	852350
10°	798579
15°	723270
20°	548671
25°	344051
30°	180027
35°	80709
40°	35423
45°	20932
50°	16119
55°	12903
60°	11841
65°	11674
70°	2885
75°	7625
80°	5683
85°	5661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	16.4
10°-20°	382.6	39.1
20°-30°	291.1	29.7
30°-40°	93.0	9.5
40°-50°	24.6	2.5
50°-60°	14.0	1.4
60°-70°	8.6	0.9
70°-80°	3.7	0.4
80°-90°	0.8	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°	833.9	85.2
0°-40°	926.9	94.7
0°-60°	965.5	98.7
0°-90°	978.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	978.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1773	
5°	1721	160
15°	1416	383
25°	632	291
35°	134	93
45°	30	25
55°	15	14
65°	10	9
75°	4	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1773
2.5°	1772
5°	1721
7.5°	1660
10°	1594
12.5°	1519
15°	1416
17.5°	1255
20°	1045
22.5°	831
25°	632
27.5°	458
30°	316
32.5°	210
35°	134
37.5°	83
40°	55
42.5°	41
45°	30
47.5°	20
50°	21
52.5°	17
55°	15
57.5°	14
60°	12
62.5°	10
65°	10
67.5°	8
70°	2
72.5°	6
75°	4
77.5°	2
80°	2
82.5°	1
85°	1
87.5°	0
90°	0

(END OF REPORT)