

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: P328549

Luminaire Tested: **L815SML18NF940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-290-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L815SML18NF940MB
Description: Small, 1800lm, 25D, 4000K, black finish
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1968.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.39
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

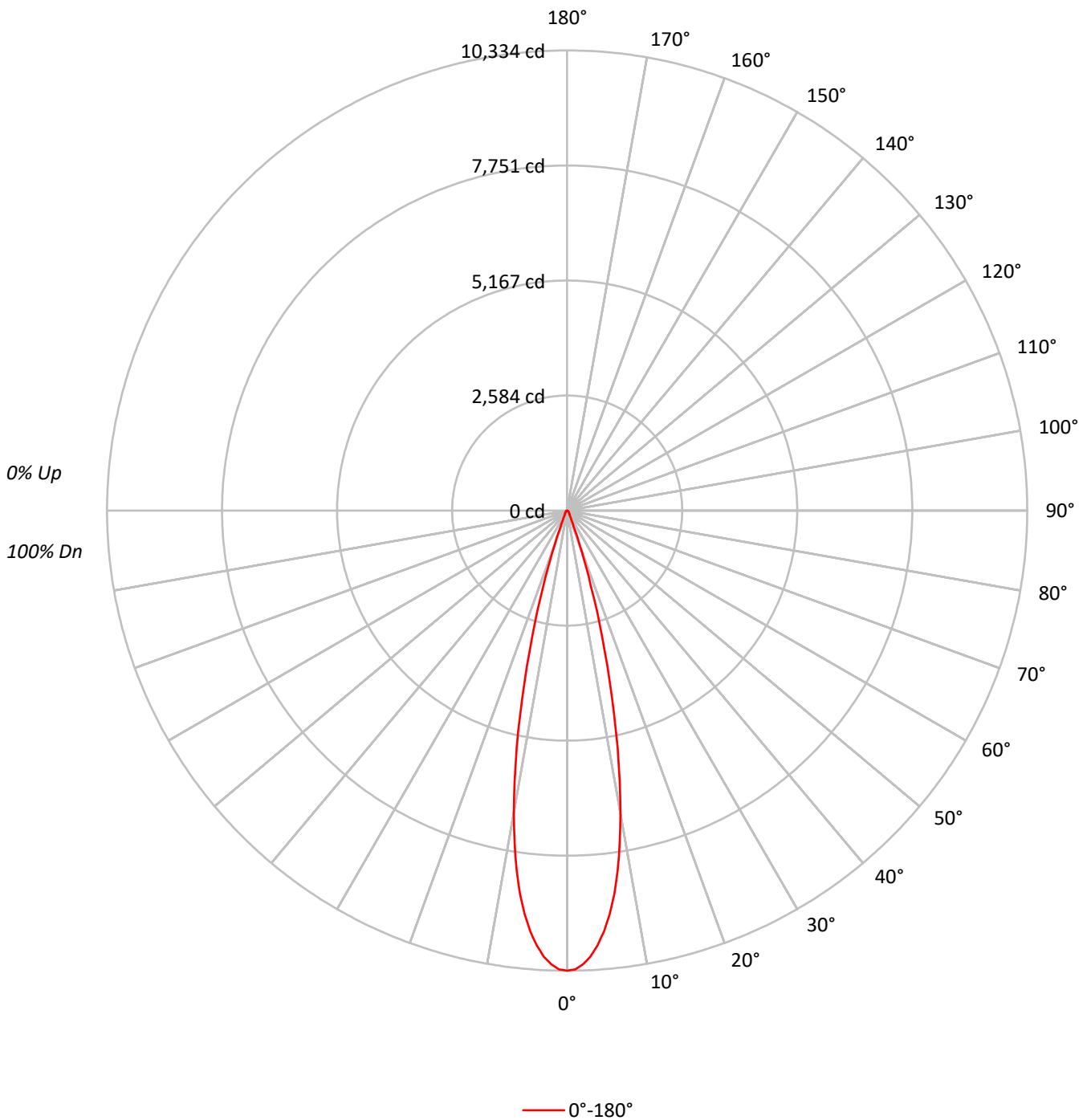
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	100	100	100	100	100	100		
1	115	113	111	110	113	111	109	108	107	106	105	103	102	101	100	99	99	97	97	97	97	97	97	97		
2	112	108	105	103	110	106	104	102	103	101	99	100	99	97	98	97	95	94	94	94	94	94	94	94		
3	108	104	100	97	106	102	99	97	100	97	95	98	96	94	96	94	92	91	91	91	91	91	91	91		
4	105	100	96	93	104	99	95	93	97	94	92	95	93	91	93	91	90	89	89	89	89	89	89	89		
5	102	97	93	90	101	96	92	89	94	91	89	93	90	88	91	89	87	86	86	86	86	86	86	86		
6	100	94	90	87	98	93	89	87	92	88	86	90	88	85	89	87	85	84	84	84	84	84	84	84		
7	97	91	87	84	96	90	87	84	89	86	84	88	85	83	87	85	83	82	82	82	82	82	82	82		
8	95	89	85	82	94	88	84	82	87	84	82	86	83	81	86	83	81	80	80	80	80	80	80	80		
9	93	86	82	80	92	86	82	80	85	82	80	84	81	79	84	81	79	78	78	78	78	78	78	78		
10	90	84	80	78	90	84	80	78	83	80	78	83	80	78	82	79	77	77	77	77	77	77	77	77		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2266047
5°	2088130
10°	1535955
15°	737280
20°	186333
25°	52164
30°	28030
35°	21683
40°	19265
45°	16281
50°	13236
55°	10016
60°	4517
65°	2958
70°	1475
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.6	41.8
10°-20°	892.7	45.4
20°-30°	129.8	6.6
30°-40°	52.2	2.7
40°-50°	40.7	2.1
50°-60°	22.4	1.1
60°-70°	6.1	0.3
70°-80°	0.6	0.0
80°-90°	0.0	0.0
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°	1846.1	93.8
0°-40°	1898.3	96.5
0°-60°	1961.4	99.7
0°-90°	1968.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1968.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10334	
5°	9486	824
15°	3248	893
25°	216	130
35°	81	52
45°	52	41
55°	26	22
65°	6	6
75°	0	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10334.0
1°	10304.3
2°	10198.2
3°	10031.7
4°	9784.1
5°	9486.4
6°	9114.5
7°	8677.6
8°	8157.4
9°	7548.3
10°	6898.1
11°	6185.1
12°	5443.6
13°	4687.3
14°	3953.8
15°	3247.7
17.5°	1764.7
20°	798.5
22.5°	375.3
25°	215.6
27.5°	146.0
30°	110.7
32.5°	91.3
35°	81.0
37.5°	74.1
40°	67.3
42.5°	60.5
45°	52.5
47.5°	45.6
50°	38.8
52.5°	31.9
55°	26.2
57.5°	18.3
60°	10.3
62.5°	8.0
65°	5.7
67.5°	4.6
70°	2.3
72.5°	1.1
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

90° | $\frac{0^\circ}{0.0}$

(END OF REPORT)