

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: P328509

Luminaire Tested: **L815SML05NF940MB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P328509
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: L815SML05NF940MB
Description: Small, 500lm, 25D, 4000K, black finish
Light Source: (1) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 680.0 lumens
Efficiency: N/A
Efficacy: 100.0 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

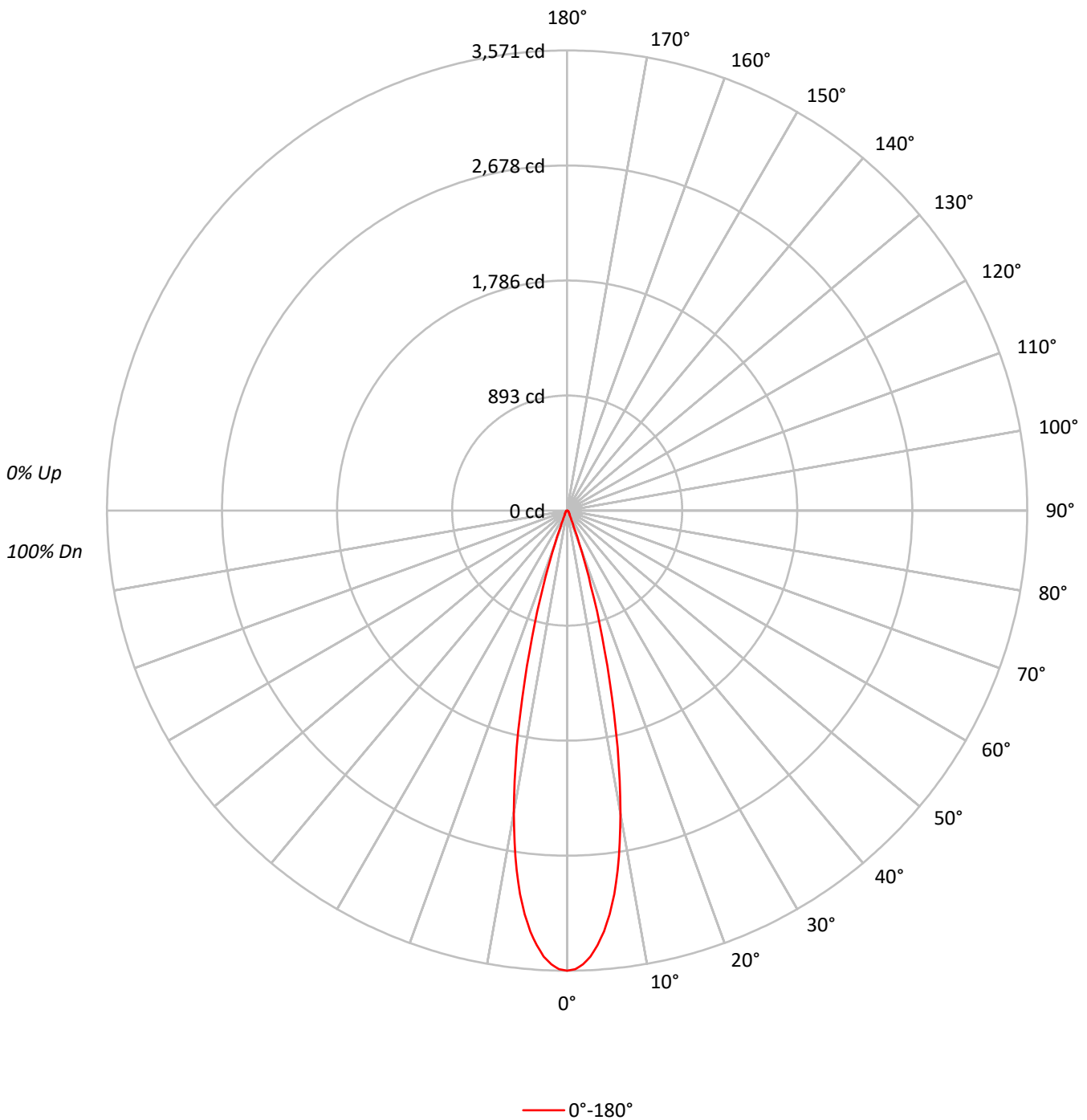
Input Watts (W): 6.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: L815SML05NF940MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	782986
5°	721504
10°	530718
15°	254757
20°	64382
25°	18025
30°	9672
35°	7495
40°	6670
45°	5613
50°	4571
55°	3479
60°	1535
65°	1038
70°	513
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	41.8
10°-20°	308.5	45.4
20°-30°	44.8	6.6
30°-40°	18.0	2.7
40°-50°	14.1	2.1
50°-60°	7.7	1.1
60°-70°	2.1	0.3
70°-80°	0.2	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°	637.9	93.8
0°-40°	655.9	96.5
0°-60°	677.7	99.7
0°-90°	680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3571	
5°	3278	285
15°	1122	308
25°	74	45
35°	28	18
45°	18	14
55°	9	8
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3570.7
1°	3560.4
2°	3523.8
3°	3466.2
4°	3380.7
5°	3277.8
6°	3149.3
7°	2998.4
8°	2818.6
9°	2608.1
10°	2383.5
11°	2137.1
12°	1880.9
13°	1619.6
14°	1366.2
15°	1122.2
17.5°	609.8
20°	275.9
22.5°	129.7
25°	74.5
27.5°	50.5
30°	38.2
32.5°	31.5
35°	28.0
37.5°	25.6
40°	23.3
42.5°	20.9
45°	18.1
47.5°	15.8
50°	13.4
52.5°	11.0
55°	9.1
57.5°	6.3
60°	3.5
62.5°	2.8
65°	2.0
67.5°	1.6
70°	0.8
72.5°	0.4
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)