

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P643149

Luminaire Tested: ML5615LSVWFL759FS1E - 593TBZB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 593TBZB - 900LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1173.2 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

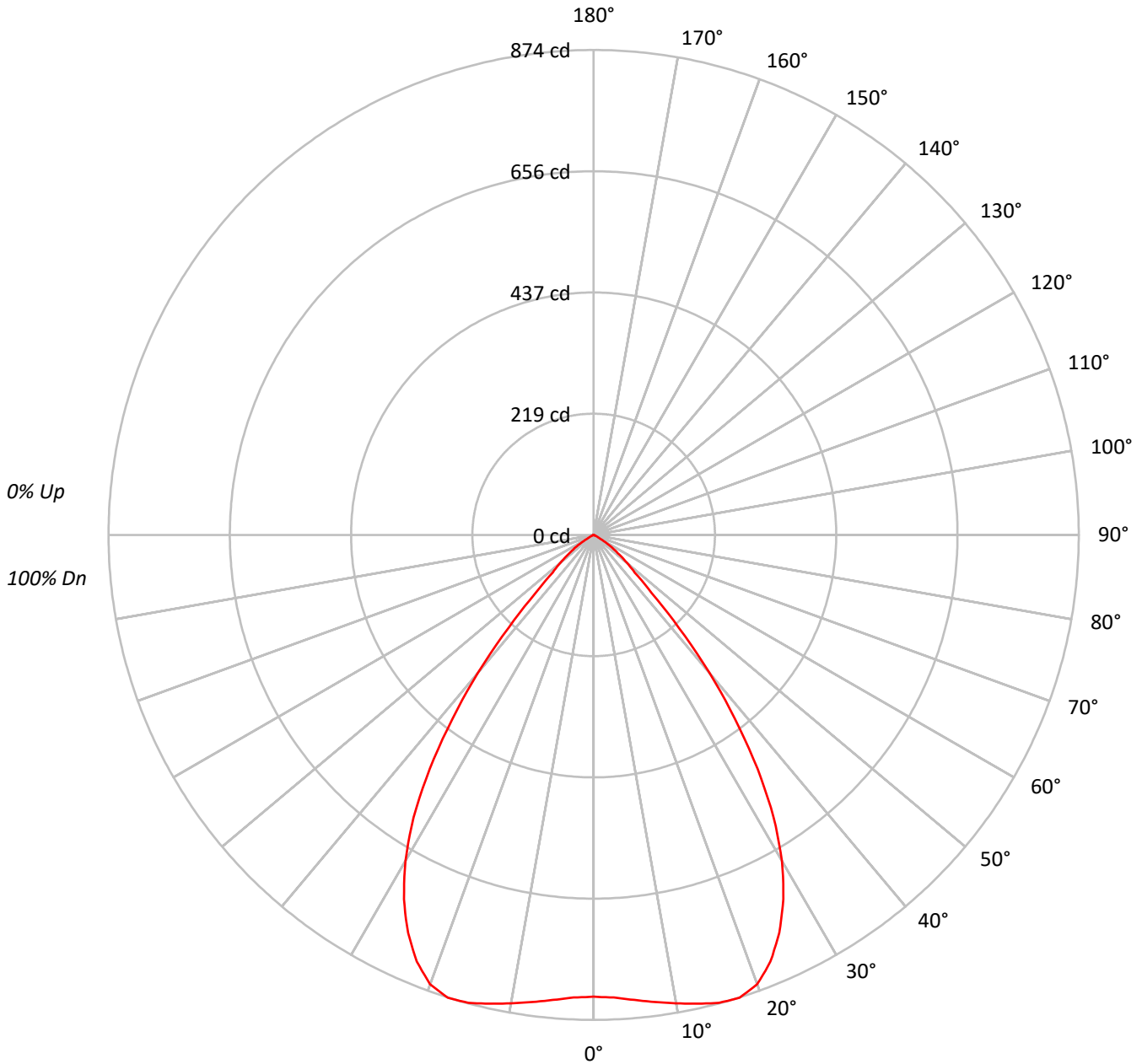
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94				92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86				85
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79				78
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73				71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67				65
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61				60
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57				55
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52				51
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49				47
10	67	56	50	46	66	56	50	46	55	49	46	54	49	45	53	49	45				44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	65695
5°	66667
10°	68712
15°	71355
20°	72389
25°	68924
30°	61866
35°	49630
40°	33388
45°	16500
50°	9628
55°	5794
60°	1974
65°	430
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16500 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	6.9
10°-20°	246.2	21.0
20°-30°	360.1	30.7
30°-40°	315.7	26.9
40°-50°	128.1	10.9
50°-60°	38.2	3.3
60°-70°	4.0	0.3
70°-80°	0.0	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°	687.2	58.6
0°-40°	1002.9	85.5
0°-60°	1169.2	99.7
0°-90°	1173.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	832	
5°	841	81
15°	873	246
25°	791	360
35°	515	316
45°	148	128
55°	42	38
65°	2	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	832.2
2.5°	834.5
5°	841.3
7.5°	849.2
10°	857.2
12.5°	865.2
15°	873.1
17.5°	874.3
20°	861.7
22.5°	832.2
25°	791.3
27.5°	740.1
30°	678.7
32.5°	603.7
35°	515.0
37.5°	418.4
40°	324.0
42.5°	226.2
45°	147.8
47.5°	100.0
50°	78.4
52.5°	58.0
55°	42.1
57.5°	27.3
60°	12.5
62.5°	6.8
65°	2.3
67.5°	1.1
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)