

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: P641677

Luminaire Tested: ML5612LSVWFL97FS1E - 593TBZB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641677
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-100)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 593TBZB - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 823.7 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.12
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

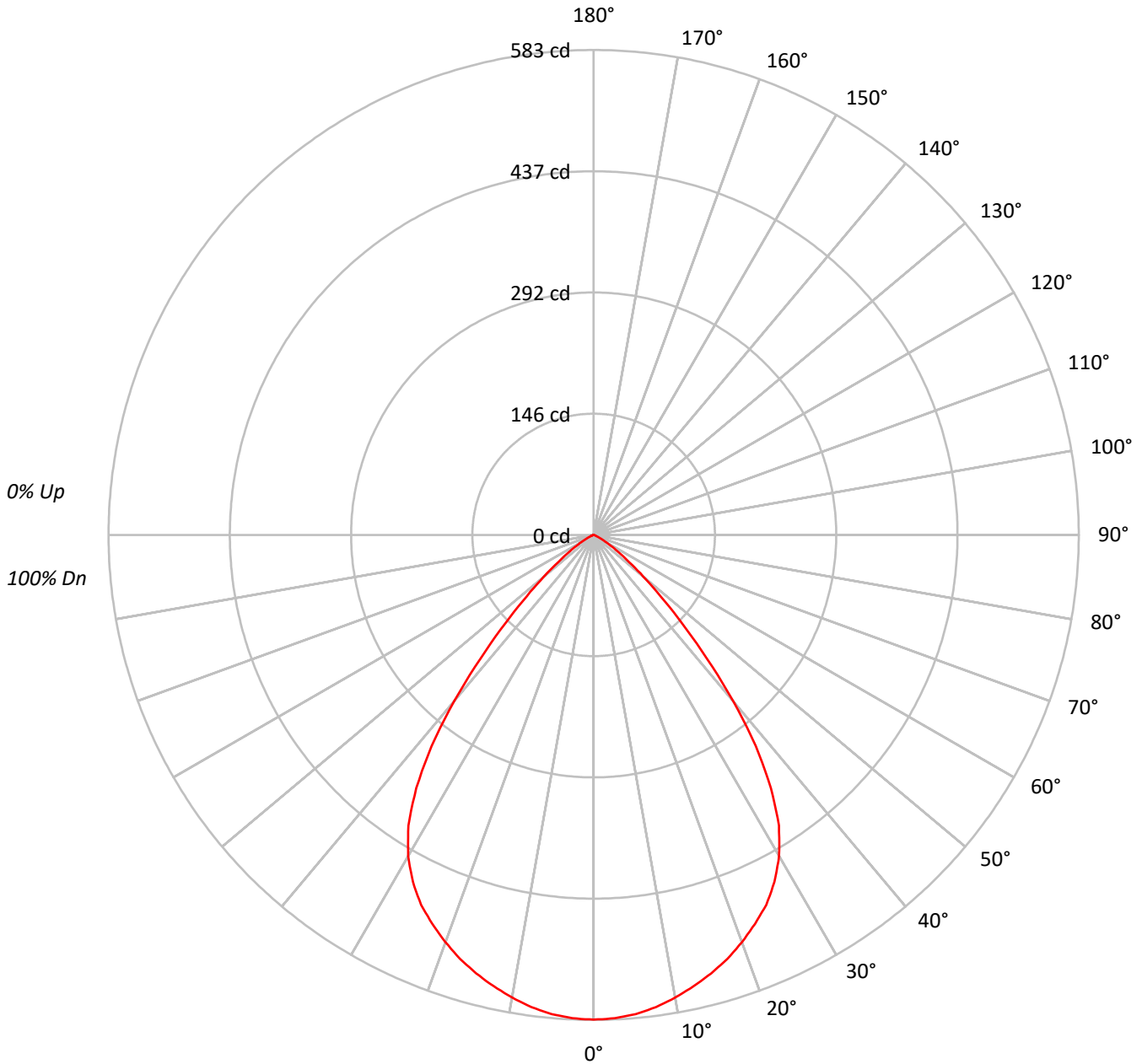
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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	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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																												
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84																												
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																												
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69																												
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63																												
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	62	59	57																												
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53																												
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48																												
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																												
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	45999
5°	45818
10°	45266
15°	44590
20°	43759
25°	42732
30°	40627
35°	35811
40°	26845
45°	16668
50°	9518
55°	5092
60°	2479
65°	1046
70°	508
75°	336
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16668 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.8	6.6
10°-20°	153.8	18.7
20°-30°	224.7	27.3
30°-40°	226.9	27.5
40°-50°	119.7	14.5
50°-60°	35.9	4.4
60°-70°	6.9	0.8
70°-80°	1.2	0.1
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°	433.2	52.6
0°-40°	660.1	80.1
0°-60°	815.6	99.0
0°-90°	823.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	823.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	583	
5°	578	55
15°	546	154
25°	491	225
35°	372	227
45°	149	120
55°	37	36
65°	6	7
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	582.7
2.5°	581.6
5°	578.2
7.5°	572.6
10°	564.7
12.5°	555.7
15°	545.6
17.5°	534.4
20°	520.9
22.5°	506.3
25°	490.6
27.5°	470.4
30°	445.7
32.5°	414.3
35°	371.6
37.5°	320.0
40°	260.5
42.5°	201.0
45°	149.3
47.5°	108.9
50°	77.5
52.5°	53.9
55°	37.0
57.5°	24.7
60°	15.7
62.5°	10.1
65°	5.6
67.5°	3.4
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
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)