

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: P643489

Luminaire Tested: ML5615LSVWFL9FS1E - 593TBZB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643489
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: ML5615LSVWFL9FS1E - 593TBZB - 1500LM - 4000K
Description: ML56 RR, MILKY 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: 1297.5 lumens
Efficiency: N/A
Efficacy: 75.9 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

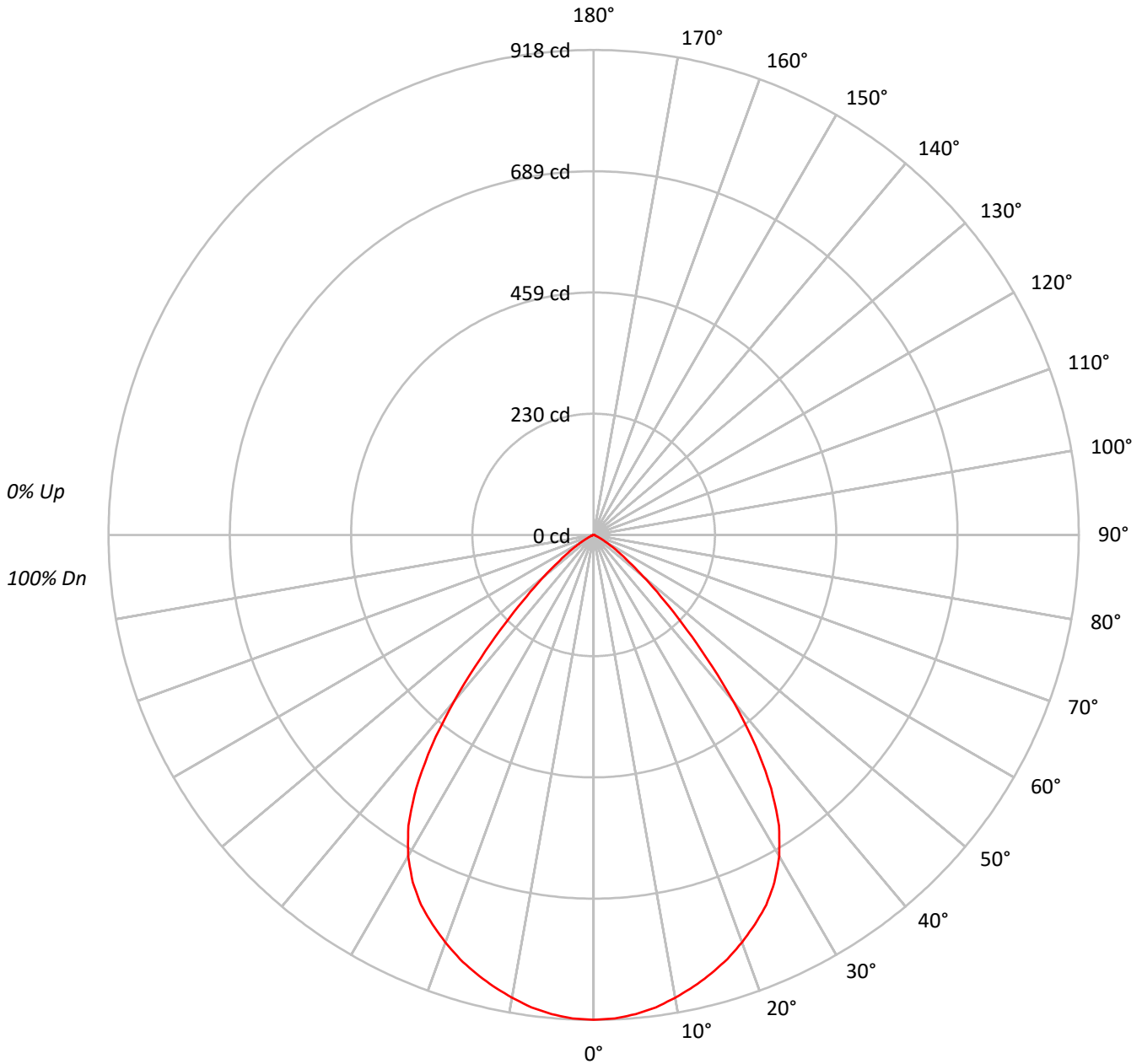
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																	
RC	80									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°	72452
5°	72166
10°	71301
15°	70243
20°	68936
25°	67312
30°	63999
35°	56414
40°	42281
45°	26258
50°	14983
55°	8038
60°	3915
65°	1644
70°	808
75°	549
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26258 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	6.6
10°-20°	242.2	18.7
20°-30°	354.0	27.3
30°-40°	357.3	27.5
40°-50°	188.5	14.5
50°-60°	56.5	4.4
60°-70°	10.8	0.8
70°-80°	1.9	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°	682.5	52.6
0°-40°	1039.8	80.1
0°-60°	1284.8	99.0
0°-90°	1297.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1297.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	918	
5°	911	86
15°	860	242
25°	773	354
35°	585	357
45°	235	189
55°	58	57
65°	9	11
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	917.8
2.5°	916.1
5°	910.7
7.5°	901.9
10°	889.5
12.5°	875.4
15°	859.5
17.5°	841.8
20°	820.6
22.5°	797.6
25°	772.8
27.5°	741.0
30°	702.1
32.5°	652.6
35°	585.4
37.5°	504.0
40°	410.3
42.5°	316.6
45°	235.2
47.5°	171.5
50°	122.0
52.5°	84.9
55°	58.4
57.5°	38.9
60°	24.8
62.5°	15.9
65°	8.8
67.5°	5.3
70°	3.5
72.5°	1.8
75°	1.8
77.5°	1.8
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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