

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: P643662

Luminaire Tested: ML5615LSVWFL9FS1E - 693TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-112)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 693TBZB - 1200LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1058.5 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

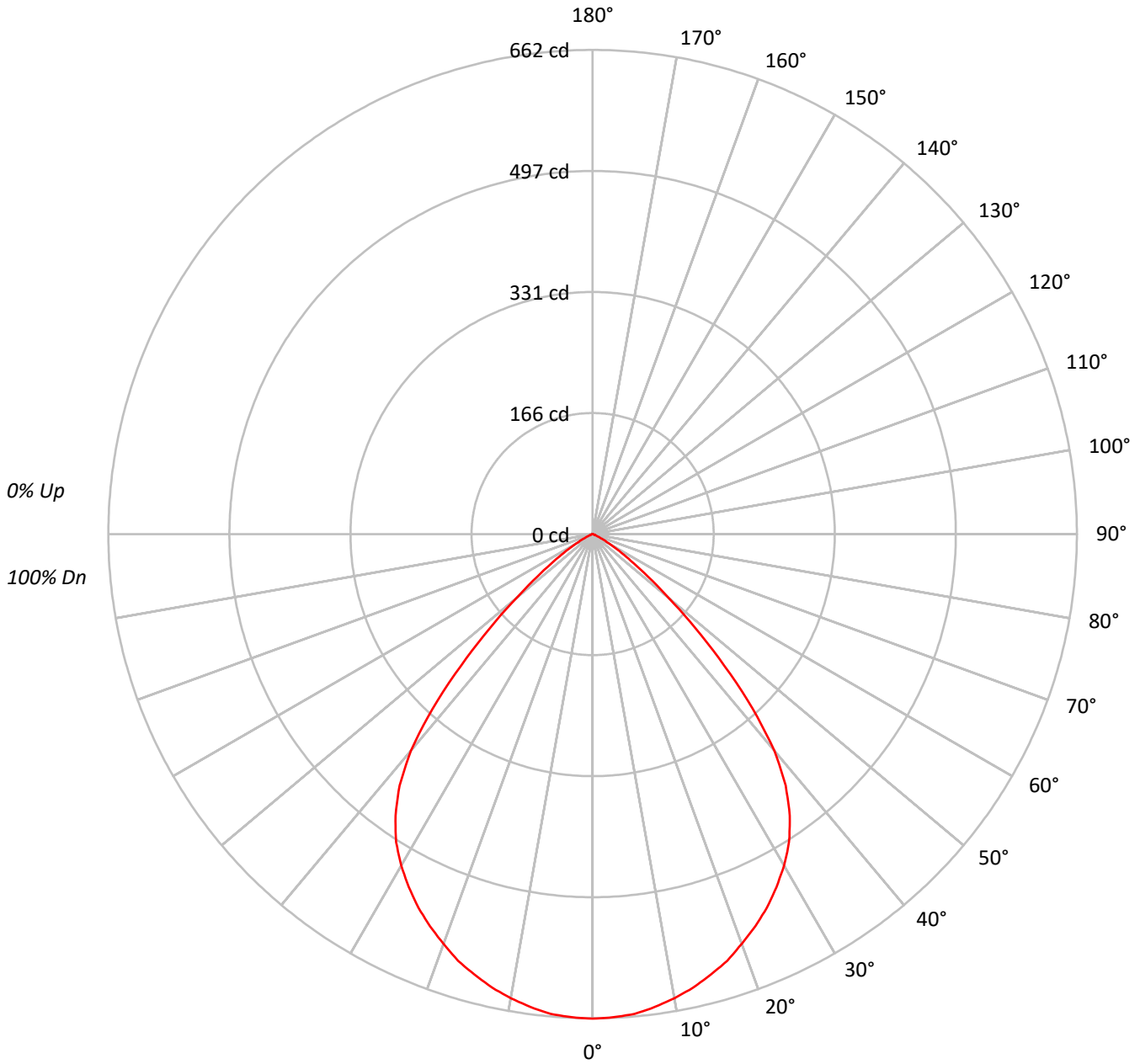
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82																			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74																			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67																			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60																			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55																			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50																			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46																			
9	67	56	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42																			
10	63	52	45	40	62	51	45	40	50	44	40	50	44	40	49	44	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36318
5°	36242
10°	35866
15°	35386
20°	34776
25°	34091
30°	33125
35°	31447
40°	27666
45°	19777
50°	11548
55°	6098
60°	2851
65°	1180
70°	417
75°	275
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19777 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	5.9
10°-20°	175.8	16.6
20°-30°	259.1	24.5
30°-40°	290.2	27.4
40°-50°	196.7	18.6
50°-60°	62.4	5.9
60°-70°	10.5	1.0
70°-80°	1.4	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°	497.3	47.0
0°-40°	787.5	74.4
0°-60°	1046.7	98.9
0°-90°	1058.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1058.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	662	
5°	659	62
15°	624	176
25°	564	259
35°	470	290
45°	255	197
55°	64	62
65°	9	10
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	662.5
2.5°	661.2
5°	658.6
7.5°	652.1
10°	644.3
12.5°	635.2
15°	623.5
17.5°	611.8
20°	596.1
22.5°	580.5
25°	563.6
27.5°	544.1
30°	523.3
32.5°	499.8
35°	469.9
37.5°	433.4
40°	386.6
42.5°	324.1
45°	255.1
47.5°	190.0
50°	135.4
52.5°	95.0
55°	63.8
57.5°	43.0
60°	26.0
62.5°	15.6
65°	9.1
67.5°	3.9
70°	2.6
72.5°	1.3
75°	1.3
77.5°	1.3
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)