

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: P643487

Luminaire Tested: ML5615LSVWFL9FS1E - 593TBZB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643487
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 - 3000K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1173.9 lumens
Efficiency: N/A
Efficacy: 68.6 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

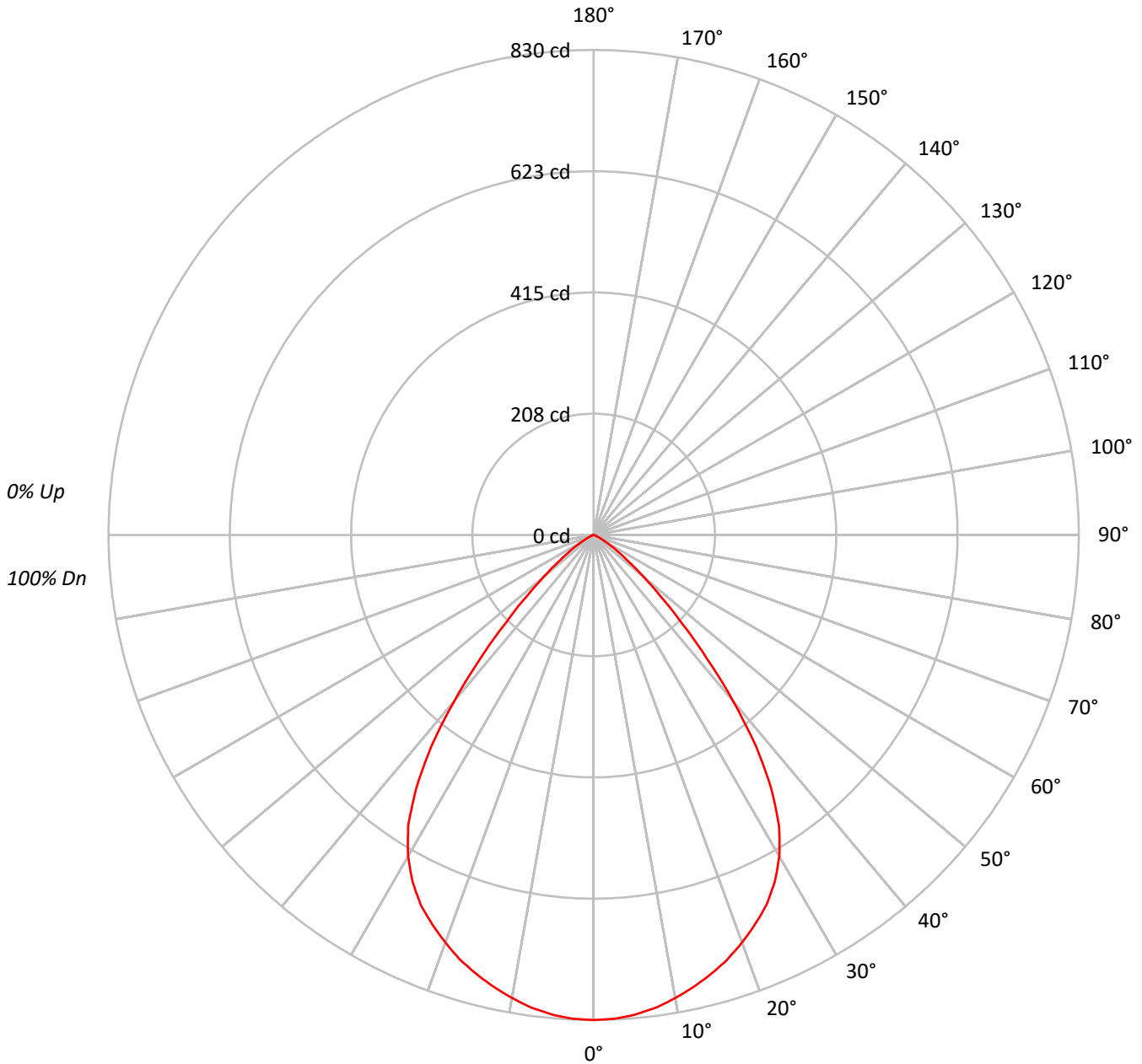
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	65553
5°	65296
10°	64512
15°	63550
20°	62367
25°	60901
30°	57900
35°	51037
40°	38252
45°	23757
50°	13558
55°	7267
60°	3537
65°	1494
70°	739
75°	488
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23757 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	6.6
10°-20°	219.1	18.7
20°-30°	320.3	27.3
30°-40°	323.3	27.5
40°-50°	170.6	14.5
50°-60°	51.1	4.4
60°-70°	9.8	0.8
70°-80°	1.7	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°	617.4	52.6
0°-40°	940.7	80.1
0°-60°	1162.4	99.0
0°-90°	1173.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1173.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	830	
5°	824	78
15°	778	219
25°	699	320
35°	530	323
45°	213	171
55°	53	51
65°	8	10
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	830.4
2.5°	828.8
5°	824.0
7.5°	816.0
10°	804.8
12.5°	792.0
15°	777.6
17.5°	761.6
20°	742.4
22.5°	721.6
25°	699.2
27.5°	670.4
30°	635.2
32.5°	590.4
35°	529.6
37.5°	456.0
40°	371.2
42.5°	286.4
45°	212.8
47.5°	155.2
50°	110.4
52.5°	76.8
55°	52.8
57.5°	35.2
60°	22.4
62.5°	14.4
65°	8.0
67.5°	4.8
70°	3.2
72.5°	1.6
75°	1.6
77.5°	1.6
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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