

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: P643352

Luminaire Tested: ML5615LSVWFL759FS1E - 694TBZB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 694TBZB - 1500LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1756.1 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

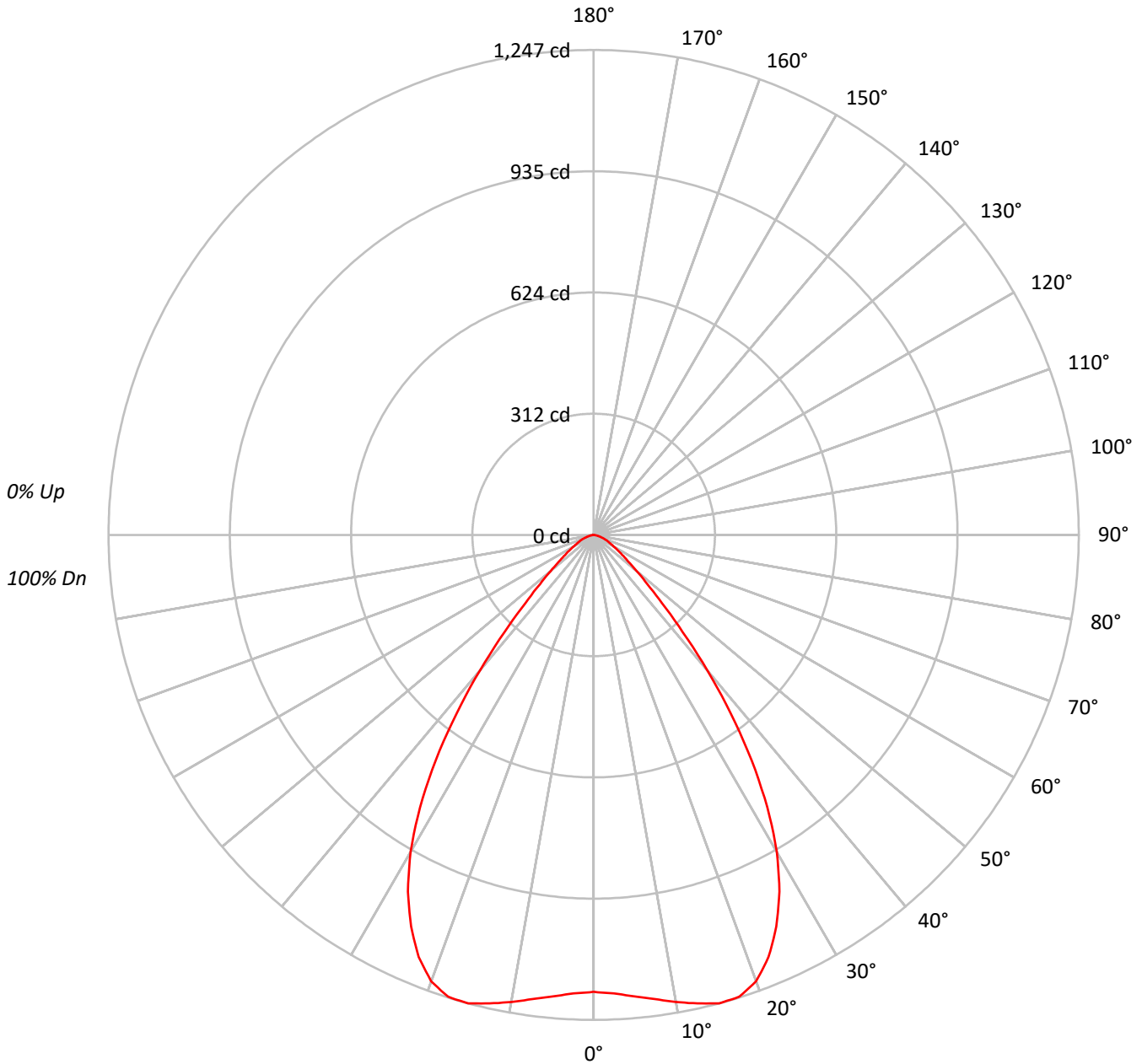
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	87	85	83																			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68																			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62																			
6	82	72	65	60	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	52																			
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48																			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45																			
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	64408
5°	65529
10°	67890
15°	70761
20°	71243
25°	67195
30°	59598
35°	47388
40°	32489
45°	19211
50°	12273
55°	8554
60°	6480
65°	5396
70°	4360
75°	3389
80°	2020
85°	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19211 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	6.5
10°-20°	350.7	20.0
20°-30°	505.5	28.8
30°-40°	436.1	24.8
40°-50°	204.4	11.6
50°-60°	83.7	4.8
60°-70°	41.9	2.4
70°-80°	17.1	1.0
80°-90°	2.2	0.1
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°	970.7	55.3
0°-40°	1406.9	80.1
0°-60°	1695.0	96.5
0°-90°	1756.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1756.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1175	
5°	1191	115
15°	1247	351
25°	1111	506
35°	708	436
45°	248	204
55°	90	84
65°	42	42
75°	16	17
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1174.9
2.5°	1179.7
5°	1190.8
7.5°	1203.6
10°	1219.6
12.5°	1234.0
15°	1246.8
17.5°	1245.2
20°	1221.2
22.5°	1174.9
25°	1110.9
27.5°	1034.2
30°	941.5
32.5°	831.2
35°	708.1
37.5°	578.6
40°	454.0
42.5°	338.9
45°	247.8
47.5°	187.0
50°	143.9
52.5°	111.9
55°	89.5
57.5°	73.5
60°	59.1
62.5°	49.6
65°	41.6
67.5°	35.2
70°	27.2
72.5°	20.8
75°	16.0
77.5°	11.2
80°	6.4
82.5°	3.2
85°	1.6
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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