

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: P641378

Luminaire Tested: ML5612LSVWFL7597FS1E - 594TBZB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 594TBZB - 900LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1262.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

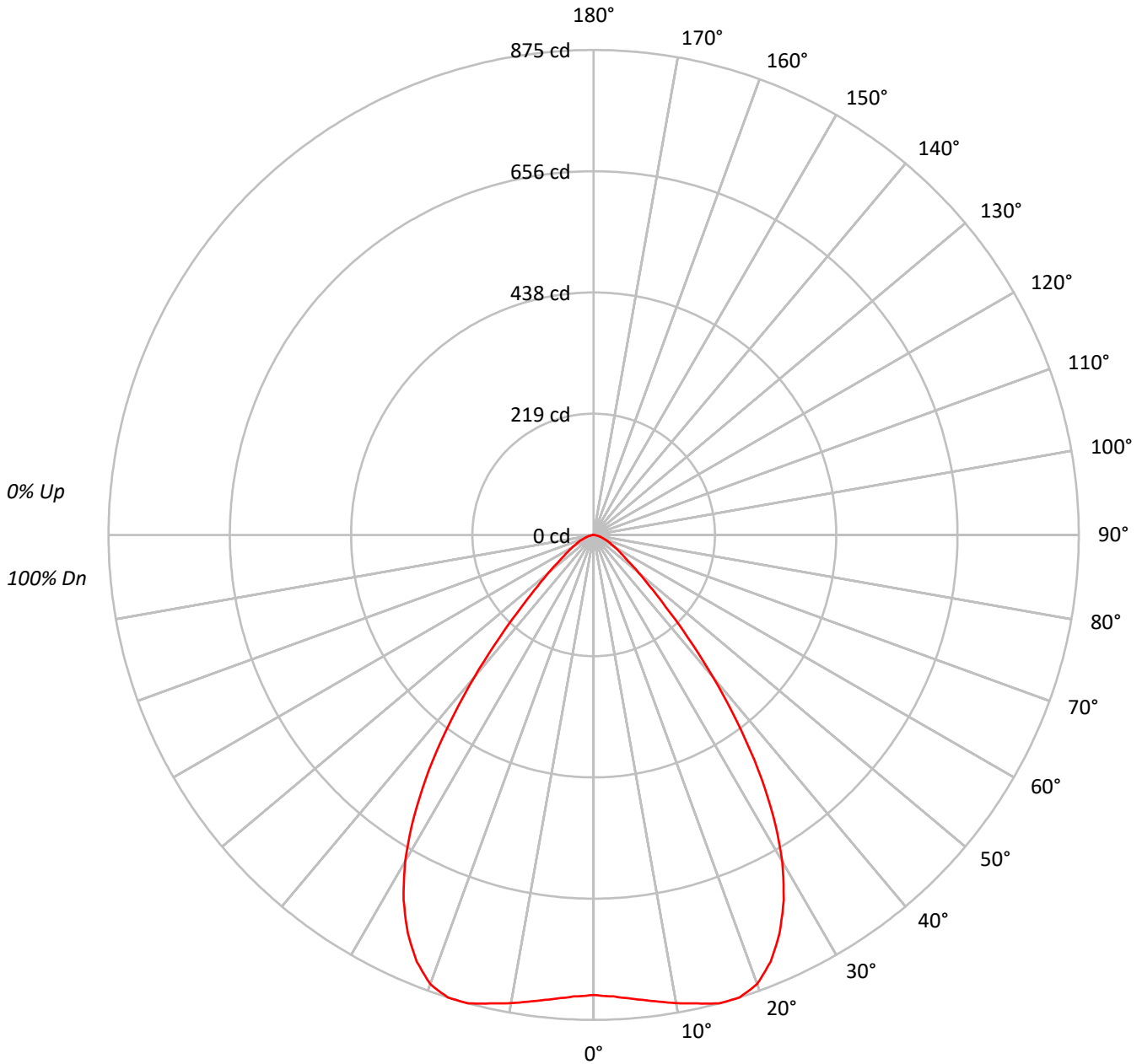
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	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	84	83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48			
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44			
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°	65529
5°	66603
10°	68760
15°	71518
20°	72448
25°	69089
30°	62011
35°	49890
40°	34460
45°	20597
50°	13030
55°	8891
60°	6915
65°	5604
70°	4524
75°	3508
80°	2091
85°	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20597 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	6.4
10°-20°	246.5	19.5
20°-30°	361.0	28.6
30°-40°	318.2	25.2
40°-50°	151.2	12.0
50°-60°	60.8	4.8
60°-70°	30.0	2.4
70°-80°	12.3	1.0
80°-90°	1.6	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°	688.2	54.5
0°-40°	1006.4	79.7
0°-60°	1218.4	96.5
0°-90°	1262.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1262.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	830	
5°	840	81
15°	875	246
25°	793	361
35°	518	318
45°	184	151
55°	65	61
65°	30	30
75°	12	12
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	830.1
2.5°	833.6
5°	840.5
7.5°	848.6
10°	857.8
12.5°	865.9
15°	875.1
17.5°	875.1
20°	862.4
22.5°	833.6
25°	793.2
27.5°	742.5
30°	680.3
32.5°	604.2
35°	517.7
37.5°	424.3
40°	334.4
42.5°	251.3
45°	184.5
47.5°	137.2
50°	106.1
52.5°	80.7
55°	64.6
57.5°	53.0
60°	43.8
62.5°	35.7
65°	30.0
67.5°	24.2
70°	19.6
72.5°	15.0
75°	11.5
77.5°	8.1
80°	4.6
82.5°	2.3
85°	1.2
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)