

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: P641167

Luminaire Tested: ML5612LSNFL2597FS1E - 693TBZB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 693TBZB - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1134.5 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

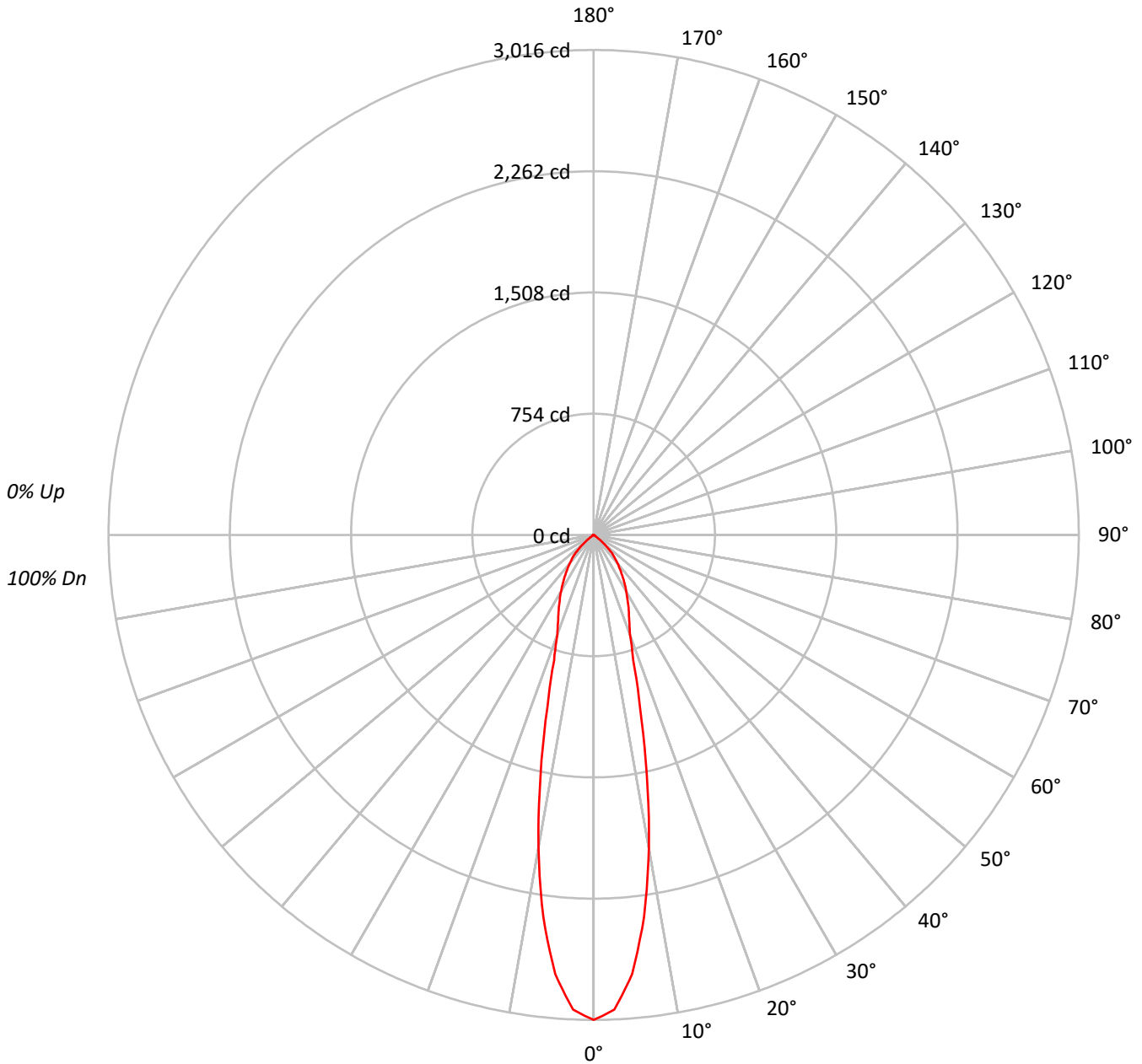
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	93	96	94	91	93	91	90	88																			
3	103	97	92	89	101	96	91	88	93	89	86	91	88	85	89	86	84	82																			
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77																			
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72																			
6	90	81	75	71	88	80	75	71	79	74	71	77	73	70	76	73	70	68																			
7	86	77	71	67	84	76	71	67	75	70	67	74	69	66	73	69	66	65																			
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	63	61																			
9	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	62	59	58																			
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165349
5°	150847
10°	110102
15°	63008
20°	38439
25°	31163
30°	25650
35°	20806
40°	16467
45°	12621
50°	6413
55°	1606
60°	987
65°	441
70°	176
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12621 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	20.9
10°-20°	318.4	28.1
20°-30°	237.3	20.9
30°-40°	194.9	17.2
40°-50°	120.0	10.6
50°-60°	22.8	2.0
60°-70°	3.7	0.3
70°-80°	0.4	0.0
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°	792.6	69.9
0°-40°	987.5	87.0
0°-60°	1130.4	99.6
0°-90°	1134.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1134.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3016	
5°	2741	237
15°	1110	318
25°	515	237
35°	311	195
45°	163	120
55°	17	23
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3016.2
2.5°	2955.6
5°	2741.2
7.5°	2397.7
10°	1977.9
12.5°	1521.0
15°	1110.2
17.5°	819.4
20°	658.9
22.5°	575.8
25°	515.2
27.5°	456.9
30°	405.2
32.5°	357.0
35°	310.9
37.5°	269.4
40°	230.1
42.5°	196.4
45°	162.8
47.5°	116.7
50°	75.2
52.5°	33.7
55°	16.8
57.5°	11.2
60°	9.0
62.5°	5.6
65°	3.4
67.5°	1.1
70°	1.1
72.5°	1.1
75°	0.0
77.5°	0.0
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)