

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: P641508

Luminaire Tested: ML5612LSVWFL7597FS1E - 693TBZB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-89)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 693TBZB - 600LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 950.6 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

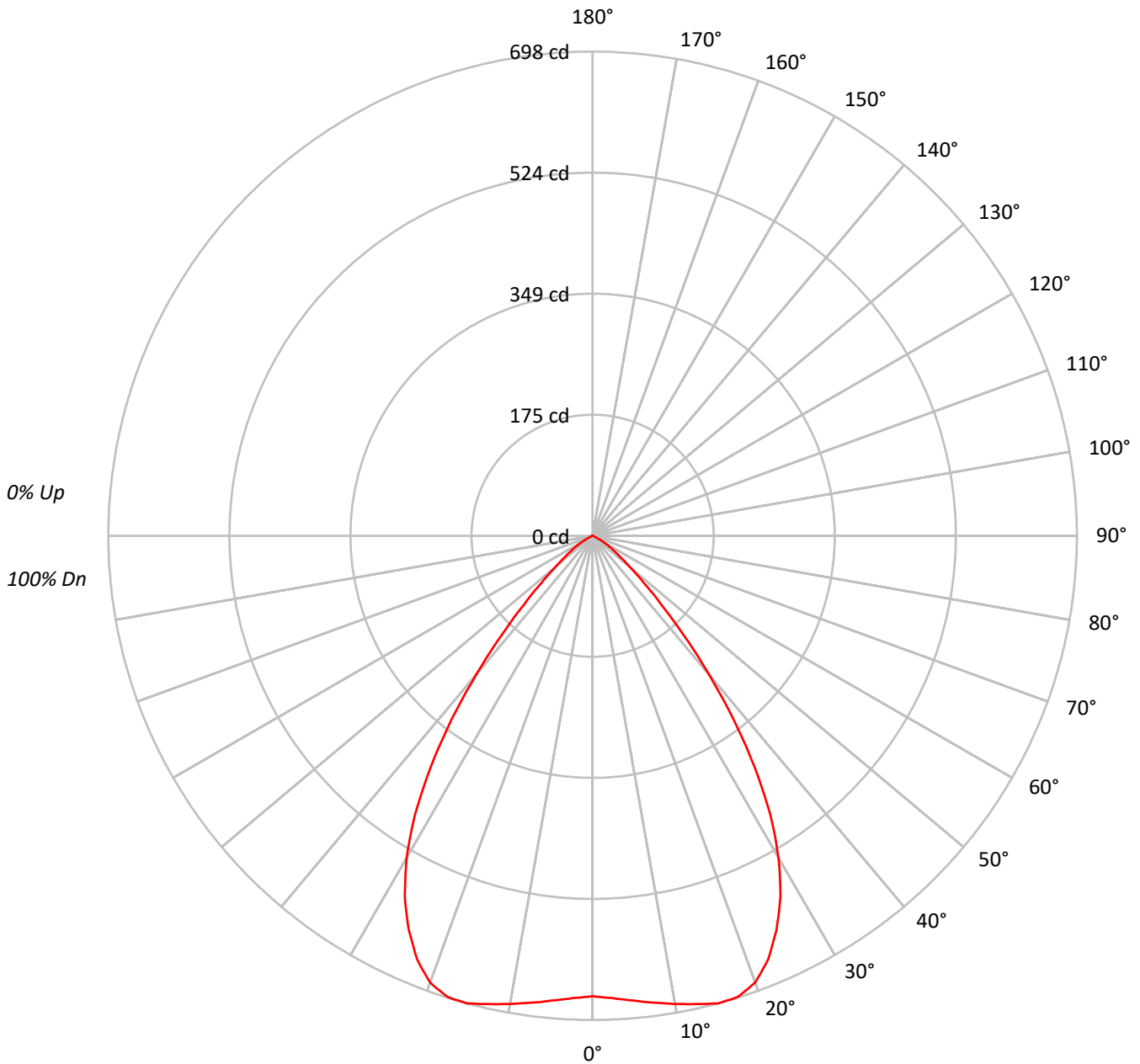
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70				
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65				
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55				
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50				
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47				
10	67	56	49	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36384
5°	37018
10°	38148
15°	39609
20°	39979
25°	37913
30°	33929
35°	27204
40°	18599
45°	10807
50°	5978
55°	3613
60°	1875
65°	467
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10807 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	6.8
10°-20°	196.5	20.7
20°-30°	285.5	30.0
30°-40°	250.2	26.3
40°-50°	113.5	11.9
50°-60°	35.2	3.7
60°-70°	5.1	0.5
70°-80°	0.0	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°	546.6	57.5
0°-40°	796.8	83.8
0°-60°	945.5	99.5
0°-90°	950.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	950.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	664	
5°	673	65
15°	698	196
25°	627	286
35°	406	250
45°	139	114
55°	38	35
65°	4	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	663.7
2.5°	667.3
5°	672.7
7.5°	679.0
10°	685.3
12.5°	691.6
15°	697.9
17.5°	697.0
20°	685.3
22.5°	661.0
25°	626.8
27.5°	586.4
30°	536.0
32.5°	476.6
35°	406.5
37.5°	333.7
40°	259.9
42.5°	193.4
45°	139.4
47.5°	98.9
50°	70.1
52.5°	50.4
55°	37.8
57.5°	27.0
60°	17.1
62.5°	8.1
65°	3.6
67.5°	0.9
70°	0.0
72.5°	0.0
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)