

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: P641328

Luminaire Tested: ML5612LSVWFL7597FS1E - 593TBZB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-77)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 593TBZB - 600LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 927.2 lumens
Efficiency: N/A
Efficacy: 90.0 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

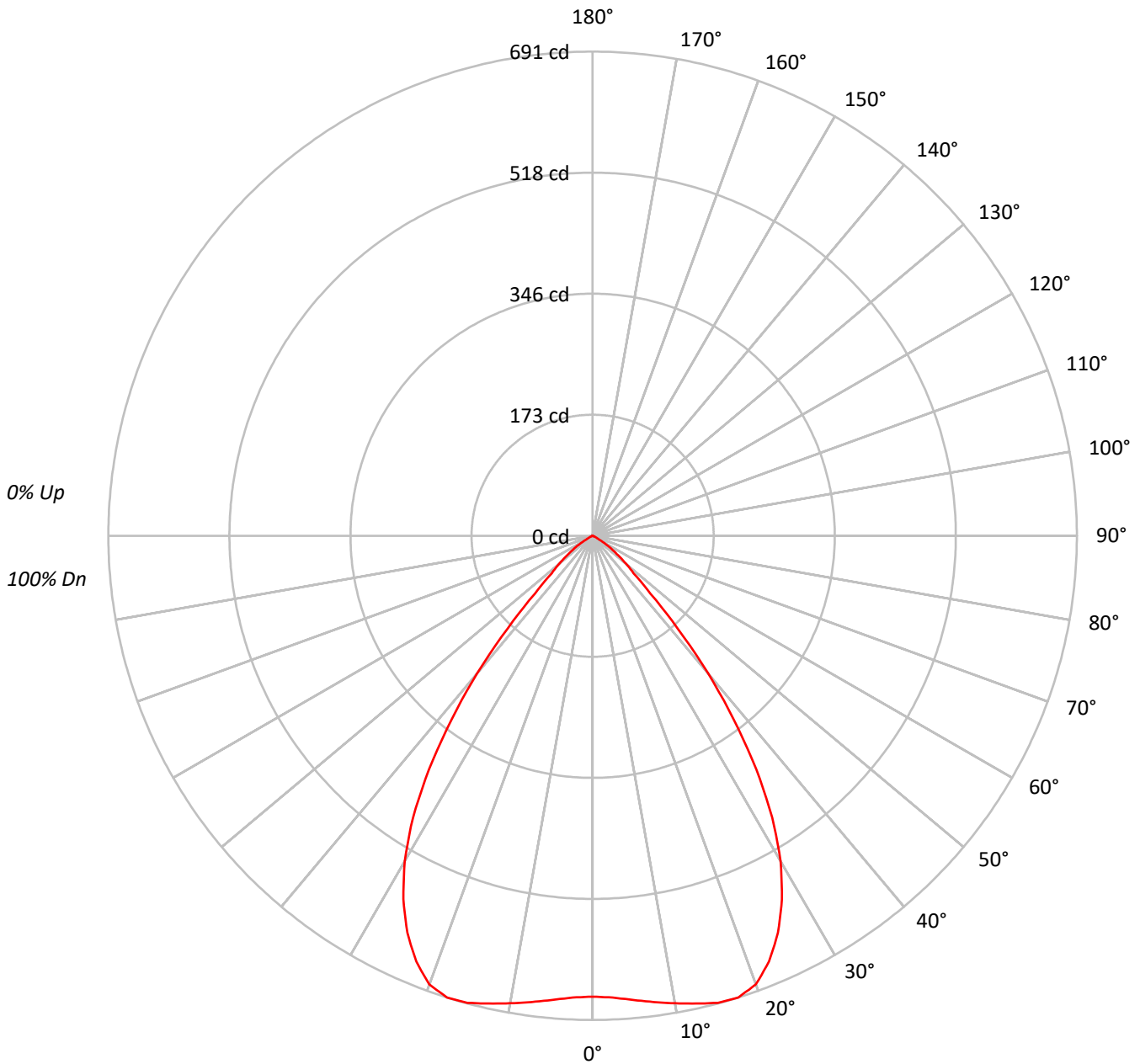
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94				92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86				85
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79				78
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73				71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67				65
6	84	74	68	63	83	73	67	63	72	66	62	70	66	62	69	65	61				60
7	79	69	62	58	78	68	62	58	67	61	57	66	61	57	65	60	57				55
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52				51
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49				47
10	67	56	50	46	66	56	50	46	55	49	46	54	49	45	53	49	45				44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	51919
5°	52688
10°	54308
15°	56399
20°	57217
25°	54473
30°	48895
35°	39222
40°	26391
45°	13039
50°	7614
55°	4569
60°	1563
65°	336
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13039 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	6.9
10°-20°	194.6	21.0
20°-30°	284.6	30.7
30°-40°	249.5	26.9
40°-50°	101.3	10.9
50°-60°	30.2	3.3
60°-70°	3.2	0.3
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°	543.1	58.6
0°-40°	792.6	85.5
0°-60°	924.1	99.7
0°-90°	927.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	927.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	658	
5°	665	64
15°	690	195
25°	625	285
35°	407	250
45°	117	101
55°	33	30
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	657.7
2.5°	659.5
5°	664.9
7.5°	671.2
10°	677.5
12.5°	683.8
15°	690.1
17.5°	691.0
20°	681.1
22.5°	657.7
25°	625.4
27.5°	584.9
30°	536.4
32.5°	477.1
35°	407.0
37.5°	330.7
40°	256.1
42.5°	178.8
45°	116.8
47.5°	79.1
50°	62.0
52.5°	45.8
55°	33.2
57.5°	21.6
60°	9.9
62.5°	5.4
65°	1.8
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)