

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: P641538

Luminaire Tested: ML5612LSVWFL7597FS1E - 694TBZB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641538
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: ML5612LSVWFL7597FS1E - 694TBZB - 600LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

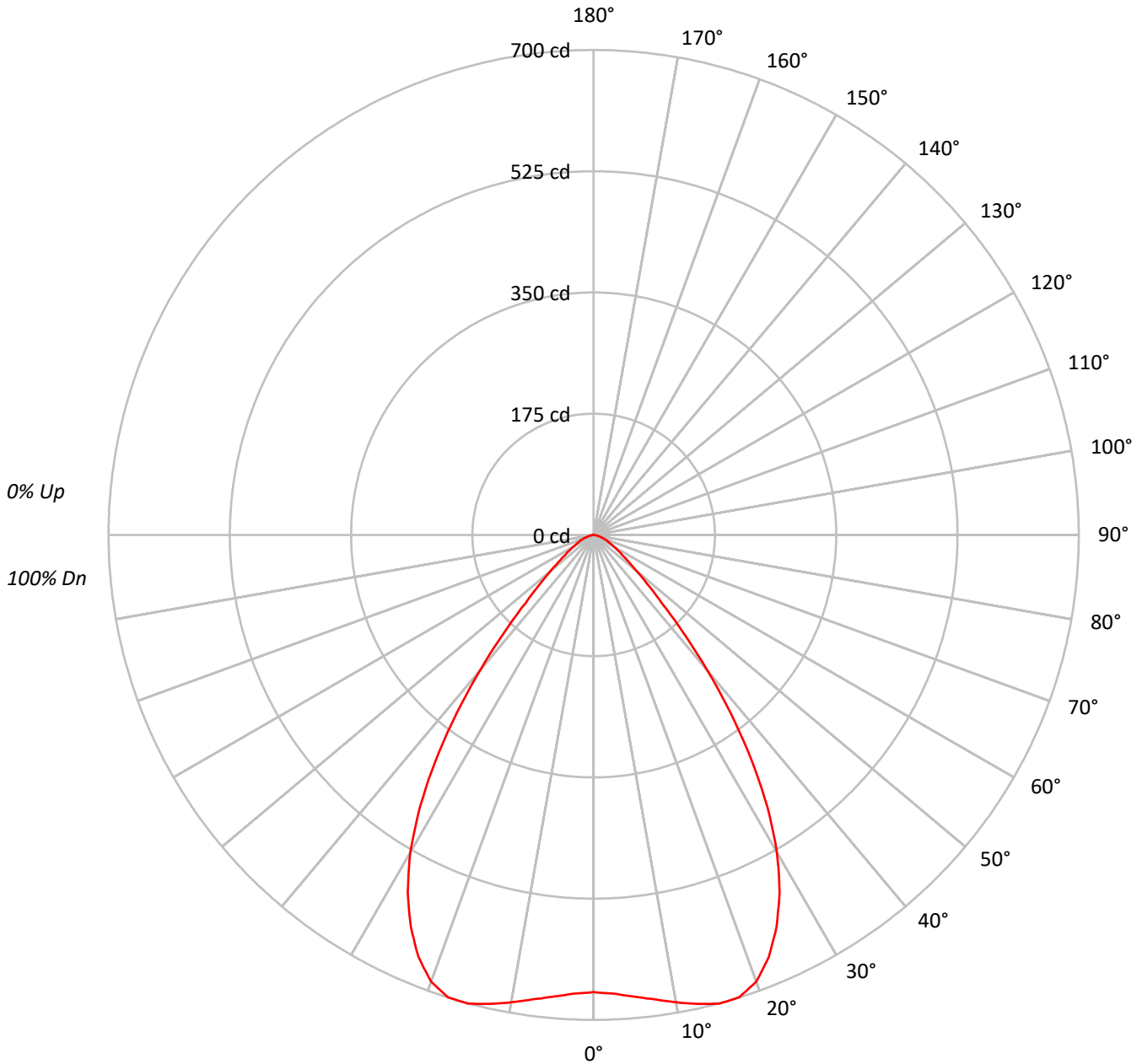
Lumens per Lamp: N/A
Luminaire Lumens: 986.6 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
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°	36181
5°	36815
10°	38142
15°	39751
20°	40026
25°	37750
30°	33480
35°	26622
40°	18248
45°	10792
50°	6891
55°	4807
60°	3640
65°	3022
70°	2452
75°	1906
80°	1137
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10792 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	6.5
10°-20°	197.0	20.0
20°-30°	284.0	28.8
30°-40°	245.0	24.8
40°-50°	114.8	11.6
50°-60°	47.0	4.8
60°-70°	23.5	2.4
70°-80°	9.6	1.0
80°-90°	1.2	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°	545.3	55.3
0°-40°	790.4	80.1
0°-60°	952.3	96.5
0°-90°	986.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	986.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	660	
5°	669	64
15°	700	197
25°	624	284
35°	398	245
45°	139	115
55°	50	47
65°	23	24
75°	9	10
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	660.0
2.5°	662.7
5°	669.0
7.5°	676.2
10°	685.2
12.5°	693.3
15°	700.4
17.5°	699.5
20°	686.1
22.5°	660.0
25°	624.1
27.5°	581.0
30°	528.9
32.5°	467.0
35°	397.8
37.5°	325.1
40°	255.0
42.5°	190.4
45°	139.2
47.5°	105.1
50°	80.8
52.5°	62.9
55°	50.3
57.5°	41.3
60°	33.2
62.5°	27.8
65°	23.3
67.5°	19.8
70°	15.3
72.5°	11.7
75°	9.0
77.5°	6.3
80°	3.6
82.5°	1.8
85°	0.9
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)