

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: P642258

Luminaire Tested: ML5612LSWFL5597FS1E - 696WB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 696WB - 600LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1019.8 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

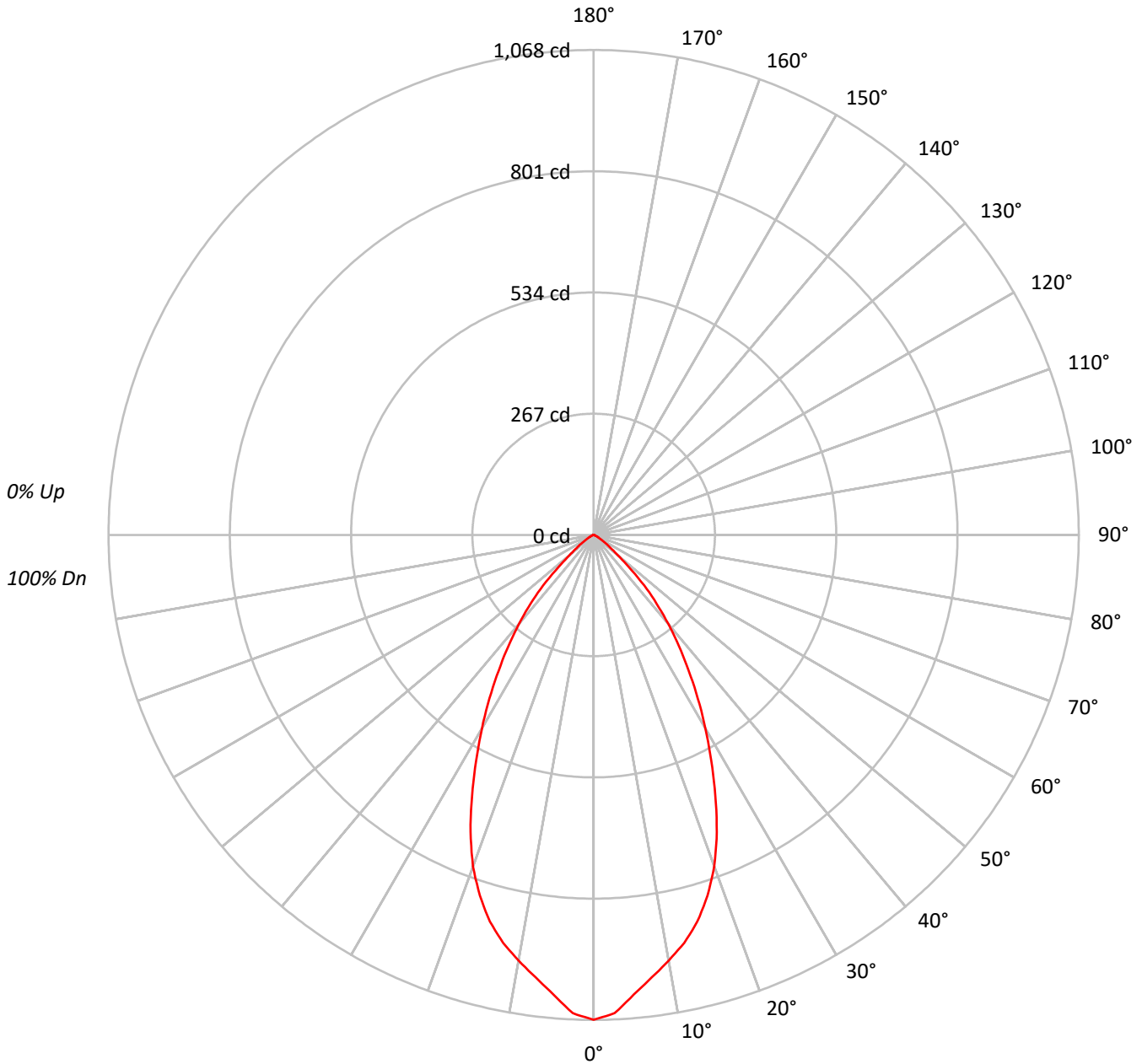
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	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	106	103	104	102	100	100	99	97	97	96	94	93							93																					
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85							85																					
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78							78																					
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72							72																					
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66							66																					
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61							61																					
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57							57																					
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53							53																					
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49							49																					
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46							46																					

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58537
5°	55894
10°	52988
15°	50040
20°	45306
25°	38331
30°	31125
35°	24360
40°	18270
45°	12195
50°	5902
55°	3097
60°	1579
65°	1051
70°	433
75°	381
80°	284
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12195 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	9.3
10°-20°	245.5	24.1
20°-30°	289.6	28.4
30°-40°	228.4	22.4
40°-50°	119.7	11.7
50°-60°	31.3	3.1
60°-70°	7.9	0.8
70°-80°	1.9	0.2
80°-90°	0.6	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°	630.1	61.8
0°-40°	858.5	84.2
0°-60°	1009.5	99.0
0°-90°	1019.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1019.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1068	
5°	1016	95
15°	882	245
25°	634	290
35°	364	228
45°	157	120
55°	32	31
65°	8	8
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1067.8
2.5°	1054.3
5°	1015.7
7.5°	982.4
10°	951.9
12.5°	920.4
15°	881.7
17.5°	833.2
20°	776.6
22.5°	708.3
25°	633.7
27.5°	560.0
30°	491.7
32.5°	426.9
35°	364.0
37.5°	308.3
40°	255.3
42.5°	204.9
45°	157.3
47.5°	104.3
50°	69.2
52.5°	46.7
55°	32.4
57.5°	20.7
60°	14.4
62.5°	10.8
65°	8.1
67.5°	4.5
70°	2.7
72.5°	1.8
75°	1.8
77.5°	1.8
80°	0.9
82.5°	0.9
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)