

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: P642264

Luminaire Tested: ML5612LSWFL5597FS1E - 696WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642264
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 - 900LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

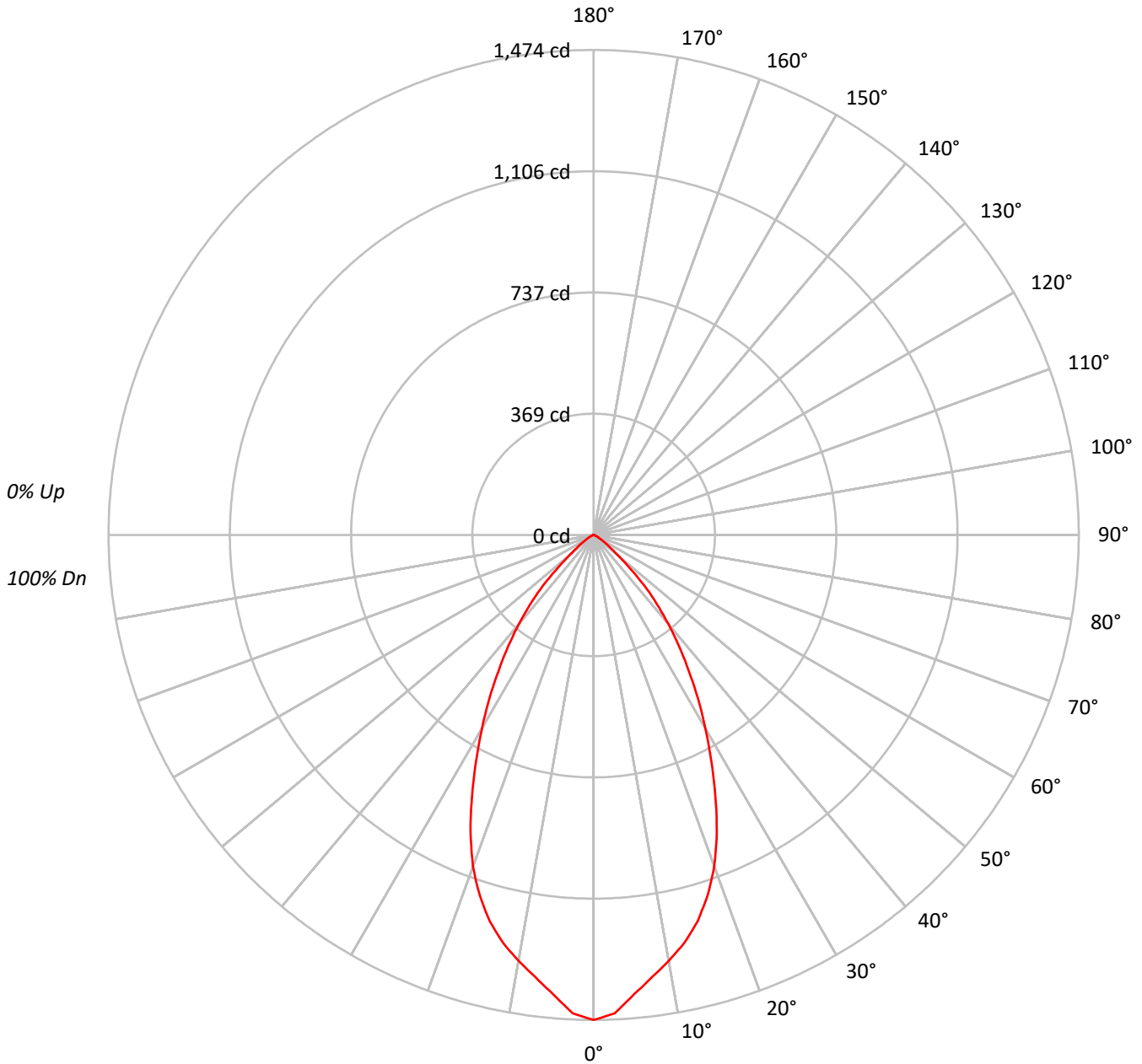
Lumens per Lamp: N/A
Luminaire Lumens: 1407.7 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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									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																												
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																												
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																												
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78																												
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72																												
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66																												
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61																												
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57																												
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53																												
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49																												
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80805
5°	77157
10°	73145
15°	69081
20°	62539
25°	52908
30°	42962
35°	33629
40°	25219
45°	16831
50°	8145
55°	4272
60°	2182
65°	1453
70°	593
75°	530
80°	379
85°	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16831 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	9.3
10°-20°	338.9	24.1
20°-30°	399.7	28.4
30°-40°	315.3	22.4
40°-50°	165.2	11.7
50°-60°	43.2	3.1
60°-70°	10.8	0.8
70°-80°	2.6	0.2
80°-90°	0.8	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°	869.8	61.8
0°-40°	1185.0	84.2
0°-60°	1393.5	99.0
0°-90°	1407.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1407.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1474	
5°	1402	131
15°	1217	339
25°	875	400
35°	502	315
45°	217	165
55°	45	43
65°	11	11
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1474.0
2.5°	1455.4
5°	1402.1
7.5°	1356.1
10°	1314.0
12.5°	1270.5
15°	1217.2
17.5°	1150.2
20°	1072.0
22.5°	977.7
25°	874.7
27.5°	773.0
30°	678.7
32.5°	589.4
35°	502.5
37.5°	425.6
40°	352.4
42.5°	282.9
45°	217.1
47.5°	143.9
50°	95.5
52.5°	64.5
55°	44.7
57.5°	28.5
60°	19.9
62.5°	14.9
65°	11.2
67.5°	6.2
70°	3.7
72.5°	2.5
75°	2.5
77.5°	2.5
80°	1.2
82.5°	1.2
85°	1.2
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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