

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: P642261

Luminaire Tested: ML5612LSWFL5597FS1E - 696WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642261
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 - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

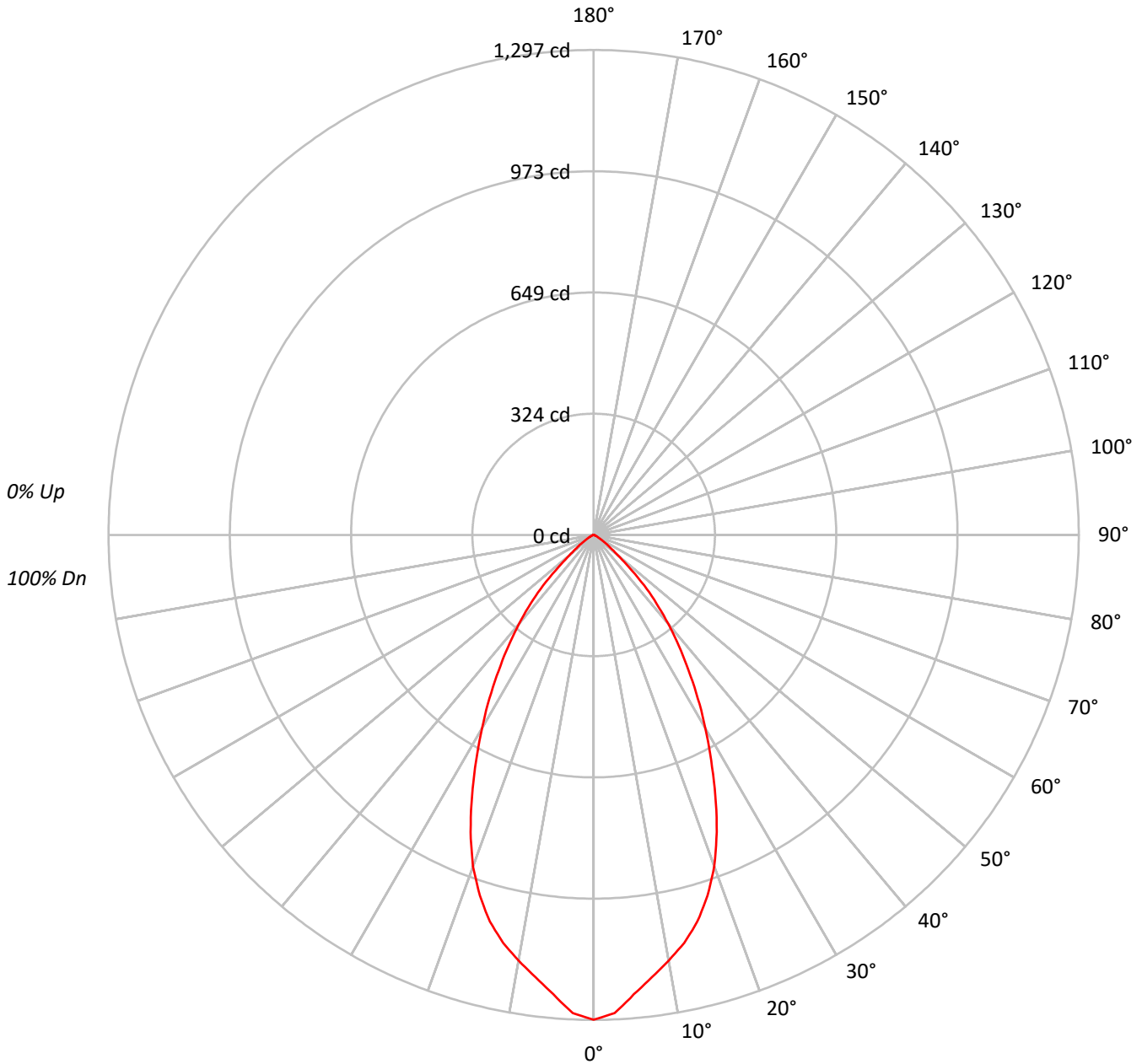
Lumens per Lamp: N/A
Luminaire Lumens: 1238.4 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P642261
CATALOG NUMBER: ML5612LSWFL5597FS1E - 696WB - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P642261

CATALOG NUMBER: ML5612LSWFL5597FS1E - 696WB - 900LM - 2700K

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	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°	71080
5°	67868
10°	64339
15°	60767
20°	55013
25°	46545
30°	37791
35°	29580
40°	22184
45°	14808
50°	7164
55°	3756
60°	1919
65°	1271
70°	529
75°	466
80°	347
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14808 cd/sqm



TEST NUMBER: P642261

CATALOG NUMBER: ML5612LSWFL5597FS1E - 696WB - 900LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	9.3
10°-20°	298.1	24.1
20°-30°	351.6	28.4
30°-40°	277.3	22.4
40°-50°	145.3	11.7
50°-60°	38.0	3.1
60°-70°	9.5	0.8
70°-80°	2.3	0.2
80°-90°	0.7	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°	765.1	61.8
0°-40°	1042.4	84.2
0°-60°	1225.8	99.0
0°-90°	1238.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1238.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1297	
5°	1233	115
15°	1071	298
25°	770	352
35°	442	277
45°	191	145
55°	39	38
65°	10	10
75°	2	2
85°	1	1
90°	0	



TEST NUMBER: P642261

CATALOG NUMBER: ML5612LSWFL5597FS1E - 696WB - 900LM - 2700K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1296.6
2.5°	1280.2
5°	1233.3
7.5°	1192.9
10°	1155.8
12.5°	1117.6
15°	1070.7
17.5°	1011.7
20°	943.0
22.5°	860.0
25°	769.5
27.5°	680.0
30°	597.0
32.5°	518.4
35°	442.0
37.5°	374.4
40°	310.0
42.5°	248.8
45°	191.0
47.5°	126.6
50°	84.0
52.5°	56.8
55°	39.3
57.5°	25.1
60°	17.5
62.5°	13.1
65°	9.8
67.5°	5.5
70°	3.3
72.5°	2.2
75°	2.2
77.5°	2.2
80°	1.1
82.5°	1.1
85°	1.1
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)