

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: P641572

Luminaire Tested: ML5612LSVWFL7597FS1E - 696WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641572
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-92)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 696WB - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

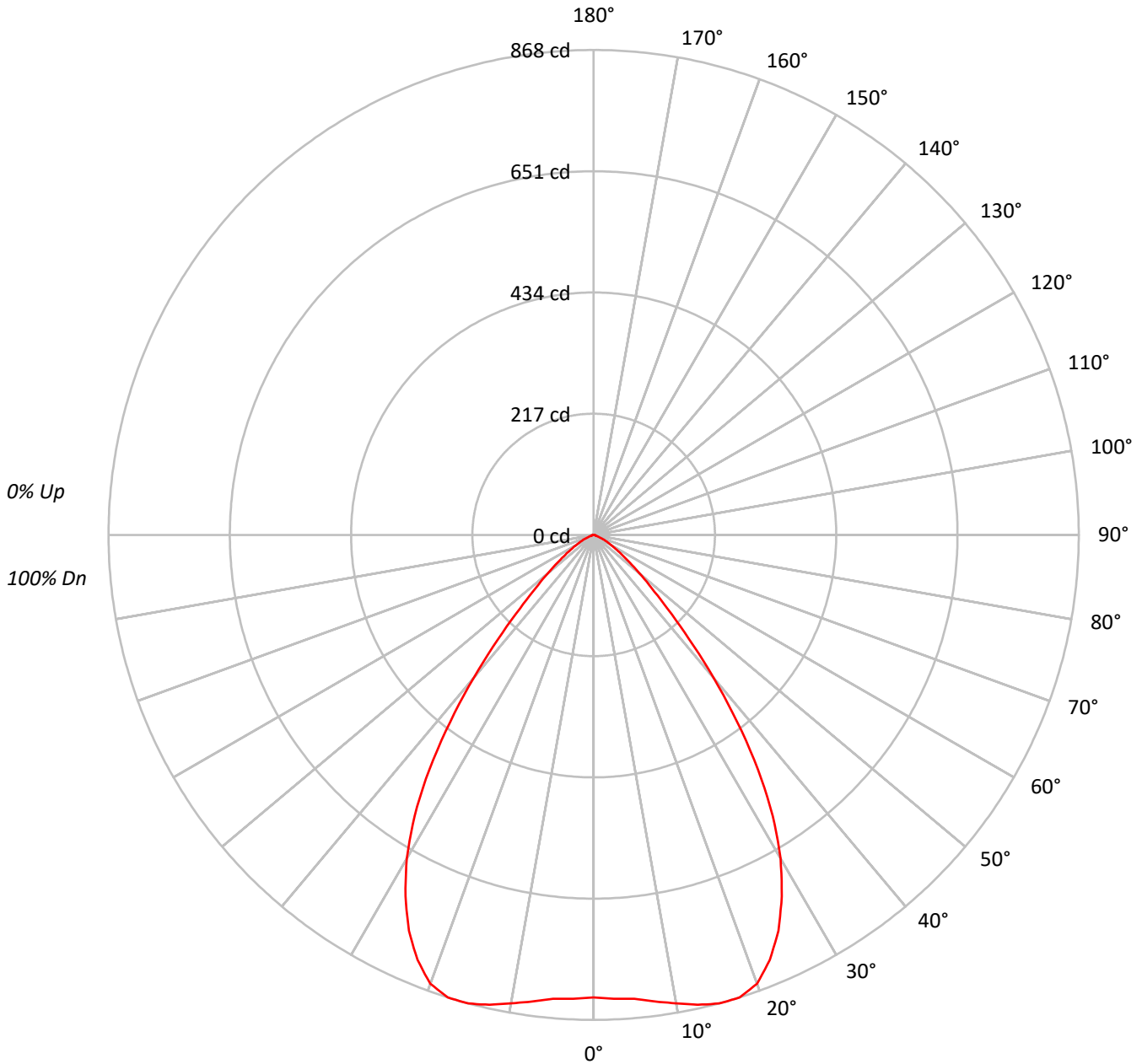
Lumens per Lamp: N/A
Luminaire Lumens: 1231.1 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P641572
CATALOG NUMBER: ML5612LSVWFL7597FS1E - 696WB - 900LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641572

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 696WB - 900LM - 3000K

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	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92																			
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	77	76																			
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69																			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58																			
7	78	67	60	56	76	67	60	55	65	59	55	64	59	55	63	58	55	53																			
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49																			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	52	47	43	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	45375
5°	45856
10°	47388
15°	49268
20°	49862
25°	47289
30°	42317
35°	34305
40°	23838
45°	14436
50°	9185
55°	5897
60°	3936
65°	2620
70°	1266
75°	720
80°	695
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14436 cd/sqm



TEST NUMBER: P641572

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 696WB - 900LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	6.5
10°-20°	244.6	19.9
20°-30°	355.7	28.9
30°-40°	314.9	25.6
40°-50°	152.1	12.4
50°-60°	58.0	4.7
60°-70°	20.0	1.6
70°-80°	4.0	0.3
80°-90°	1.5	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°	680.5	55.3
0°-40°	995.4	80.9
0°-60°	1205.6	97.9
0°-90°	1231.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1231.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	828	
5°	833	80
15°	868	245
25°	782	356
35°	513	315
45°	186	152
55°	62	58
65°	20	20
75°	3	4
85°	1	1
90°	0	



TEST NUMBER: P641572

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 696WB - 900LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	827.7
2.5°	831.1
5°	833.3
7.5°	842.3
10°	851.3
12.5°	861.4
15°	868.1
17.5°	868.1
20°	854.7
22.5°	823.3
25°	781.8
27.5°	729.0
30°	668.5
32.5°	596.7
35°	512.6
37.5°	421.7
40°	333.1
42.5°	252.4
45°	186.2
47.5°	139.1
50°	107.7
52.5°	81.9
55°	61.7
57.5°	46.0
60°	35.9
62.5°	26.9
65°	20.2
67.5°	12.3
70°	7.9
72.5°	4.5
75°	3.4
77.5°	2.2
80°	2.2
82.5°	2.2
85°	1.1
87.5°	1.1
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)