

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: P641224

Luminaire Tested: ML5612LSNFL2597FS1E - 696WB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 696WB - 600LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

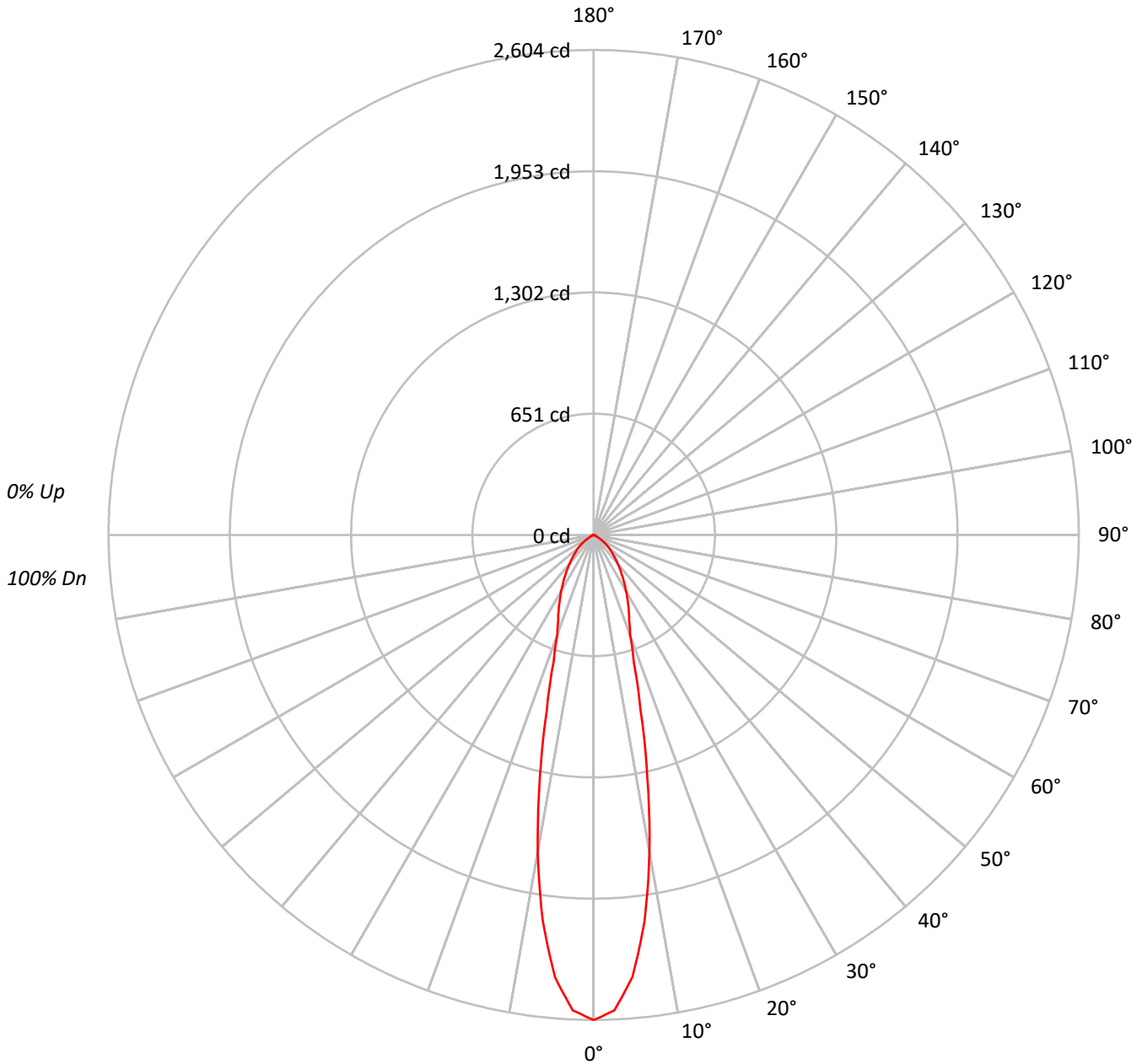
Lumens per Lamp: N/A
Luminaire Lumens: 1050.8 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P641224
CATALOG NUMBER: ML5612LSNFL2597FS1E - 696WB - 600LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641224

CATALOG NUMBER: ML5612LSNFL2597FS1E - 696WB - 600LM - 4000K

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	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80																			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74																			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69																			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65																			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61																			
8	80	70	64	60	78	70	64	60	69	63	60	68	63	60	67	62	59	58																			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55																			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	142779
5°	131146
10°	96135
15°	55233
20°	33323
25°	26893
30°	22022
35°	17848
40°	14320
45°	11389
50°	8981
55°	6279
60°	2752
65°	1634
70°	1234
75°	1017
80°	916
85°	1195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11389 cd/sqm



TEST NUMBER: P641224

CATALOG NUMBER: ML5612LSNFL2597FS1E - 696WB - 600LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.1	19.6
10°-20°	278.5	26.5
20°-30°	205.0	19.5
30°-40°	167.5	15.9
40°-50°	114.4	10.9
50°-60°	58.3	5.6
60°-70°	13.8	1.3
70°-80°	5.2	0.5
80°-90°	2.0	0.2
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°	689.6	65.6
0°-40°	857.0	81.6
0°-60°	1029.8	98.0
0°-90°	1050.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2604	
5°	2383	206
15°	973	278
25°	445	205
35°	267	167
45°	147	114
55°	66	58
65°	13	14
75°	5	5
85°	2	2
90°	0	



TEST NUMBER: P641224

CATALOG NUMBER: ML5612LSNFL2597FS1E - 696WB - 600LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2604.5
2.5°	2555.2
5°	2383.2
7.5°	2091.4
10°	1727.0
12.5°	1332.7
15°	973.2
17.5°	716.1
20°	571.2
22.5°	498.7
25°	444.6
27.5°	394.3
30°	347.9
32.5°	305.4
35°	266.7
37.5°	231.9
40°	200.1
42.5°	172.0
45°	146.9
47.5°	124.7
50°	105.3
52.5°	87.9
55°	65.7
57.5°	44.5
60°	25.1
62.5°	16.4
65°	12.6
67.5°	10.6
70°	7.7
72.5°	5.8
75°	4.8
77.5°	3.9
80°	2.9
82.5°	2.9
85°	1.9
87.5°	1.0
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)