

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: P640939

Luminaire Tested: ML5612LSNFL2597FS1E - 592W - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 592W - 600LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

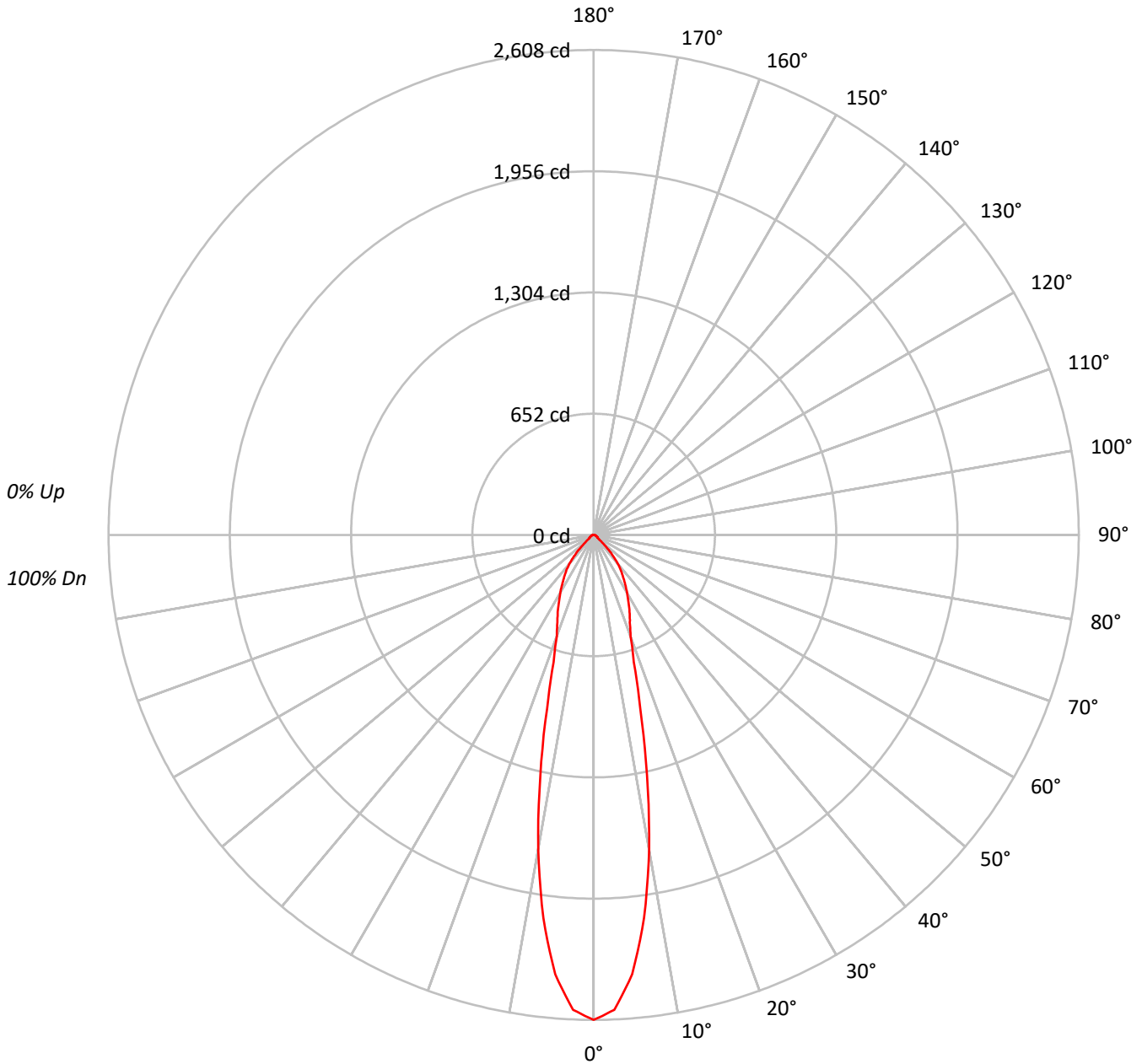
Lumens per Lamp: N/A
Luminaire Lumens: 1010.2 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): 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: P640939
CATALOG NUMBER: ML5612LSNFL2597FS1E - 592W - 600LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P640939

CATALOG NUMBER: ML5612LSNFL2597FS1E - 592W - 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	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75																			
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63																			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60																			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	205886
5°	187979
10°	137616
15°	79004
20°	48640
25°	39744
30°	32605
35°	26550
40°	20919
45°	12950
50°	4863
55°	3730
60°	3505
65°	3250
70°	3116
75°	3233
80°	3091
85°	2627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12950 cd/sqm



TEST NUMBER: P640939

CATALOG NUMBER: ML5612LSNFL2597FS1E - 592W - 600LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	20.3
10°-20°	277.5	27.5
20°-30°	209.7	20.8
30°-40°	172.7	17.1
40°-50°	88.4	8.7
50°-60°	25.2	2.5
60°-70°	17.3	1.7
70°-80°	11.1	1.1
80°-90°	3.3	0.3
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°	692.2	68.5
0°-40°	864.9	85.6
0°-60°	978.5	96.9
0°-90°	1010.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1010.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2608	
5°	2372	205
15°	967	277
25°	456	210
35°	276	173
45°	116	88
55°	27	25
65°	17	17
75°	11	11
85°	3	3
90°	0	



TEST NUMBER: P640939

CATALOG NUMBER: ML5612LSNFL2597FS1E - 592W - 600LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2608.1
2.5°	2555.9
5°	2372.2
7.5°	2076.4
10°	1716.8
12.5°	1322.4
15°	966.7
17.5°	716.3
20°	579.0
22.5°	508.5
25°	456.3
27.5°	404.1
30°	357.7
32.5°	315.1
35°	275.5
37.5°	240.7
40°	203.0
42.5°	156.6
45°	116.0
47.5°	71.5
50°	39.6
52.5°	30.9
55°	27.1
57.5°	24.2
60°	22.2
62.5°	19.3
65°	17.4
67.5°	15.5
70°	13.5
72.5°	12.6
75°	10.6
77.5°	8.7
80°	6.8
82.5°	4.8
85°	2.9
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)