

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: P640896

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 591WB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

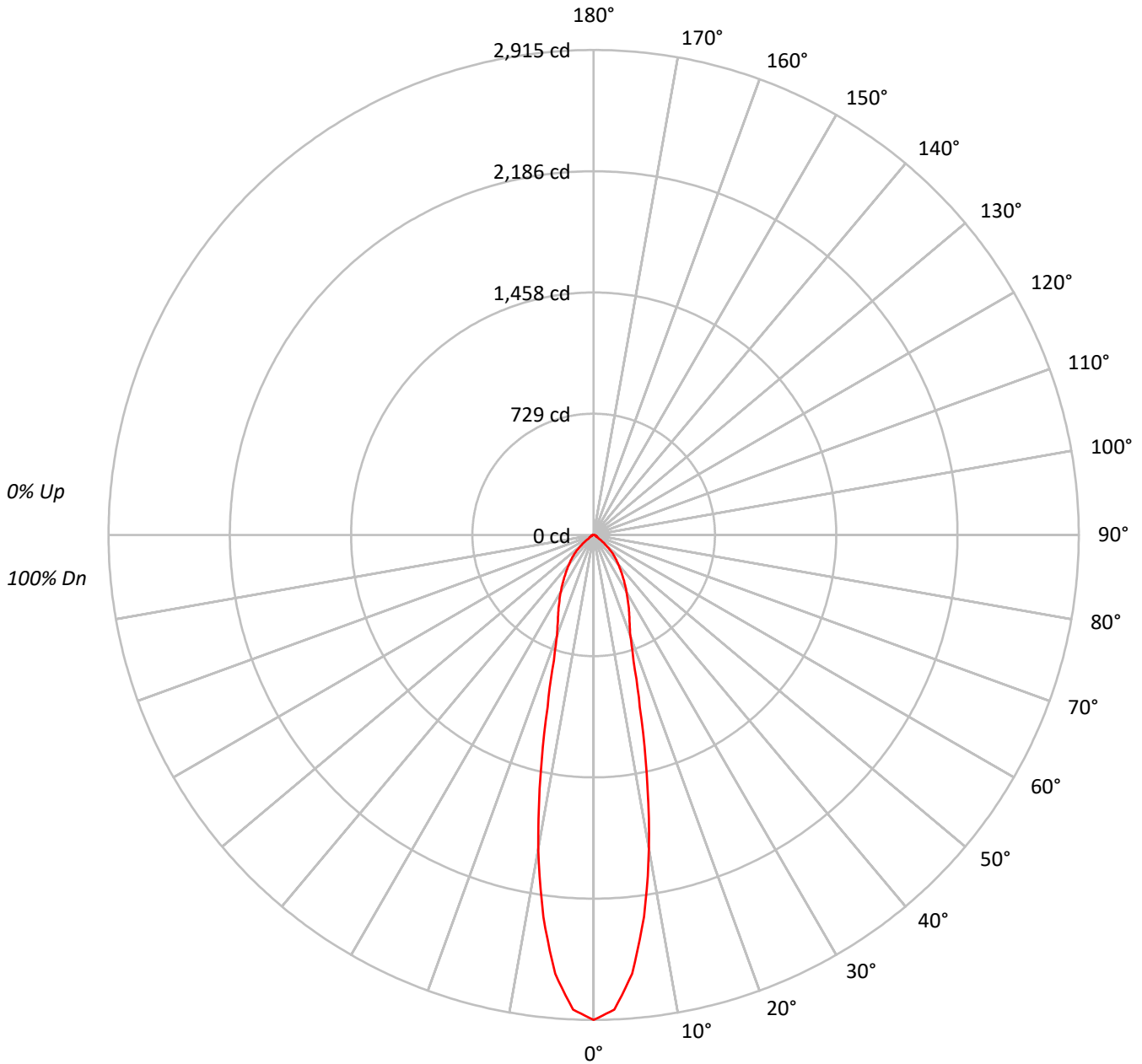
Lumens per Lamp: N/A
Luminaire Lumens: 1158.7 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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: P640896
CATALOG NUMBER: ML5612LSNFL2597FS1E - 591WB - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P640896

CATALOG NUMBER: ML5612LSNFL2597FS1E - 591WB - 900LM - 2700K

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70	70	70	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66	66	66	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62	62	62	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58	58	58	58
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56	56	56	56
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53	53	53	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	230129
5°	209818
10°	153544
15°	87414
20°	53823
25°	43734
30°	36015
35°	29238
40°	23619
45°	18889
50°	12330
55°	5409
60°	3442
65°	3063
70°	2770
75°	2654
80°	2955
85°	2989

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18889 cd/sqm



TEST NUMBER: P640896

CATALOG NUMBER: ML5612LSNFL2597FS1E - 591WB - 900LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	19.8
10°-20°	307.9	26.6
20°-30°	231.2	20.0
30°-40°	190.6	16.5
40°-50°	127.1	11.0
50°-60°	43.1	3.7
60°-70°	16.6	1.4
70°-80°	9.3	0.8
80°-90°	3.9	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°	768.0	66.3
0°-40°	958.6	82.7
0°-60°	1128.9	97.4
0°-90°	1158.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1158.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2915	
5°	2648	229
15°	1070	308
25°	502	231
35°	303	191
45°	169	127
55°	39	43
65°	16	17
75°	9	9
85°	3	4
90°	0	



TEST NUMBER: P640896

CATALOG NUMBER: ML5612LSNFL2597FS1E - 591WB - 900LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2915.2
2.5°	2855.2
5°	2647.8
7.5°	2314.9
10°	1915.5
12.5°	1470.2
15°	1069.6
17.5°	793.5
20°	640.7
22.5°	561.0
25°	502.1
27.5°	445.3
30°	395.1
32.5°	347.1
35°	303.4
37.5°	264.1
40°	229.2
42.5°	197.6
45°	169.2
47.5°	132.1
50°	100.4
52.5°	68.8
55°	39.3
57.5°	26.2
60°	21.8
62.5°	19.6
65°	16.4
67.5°	14.2
70°	12.0
72.5°	9.8
75°	8.7
77.5°	7.6
80°	6.5
82.5°	5.5
85°	3.3
87.5°	2.2
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)