

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: P641001

Luminaire Tested: ML5612LSNFL2597FS1E - 593WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 593WB - 900LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

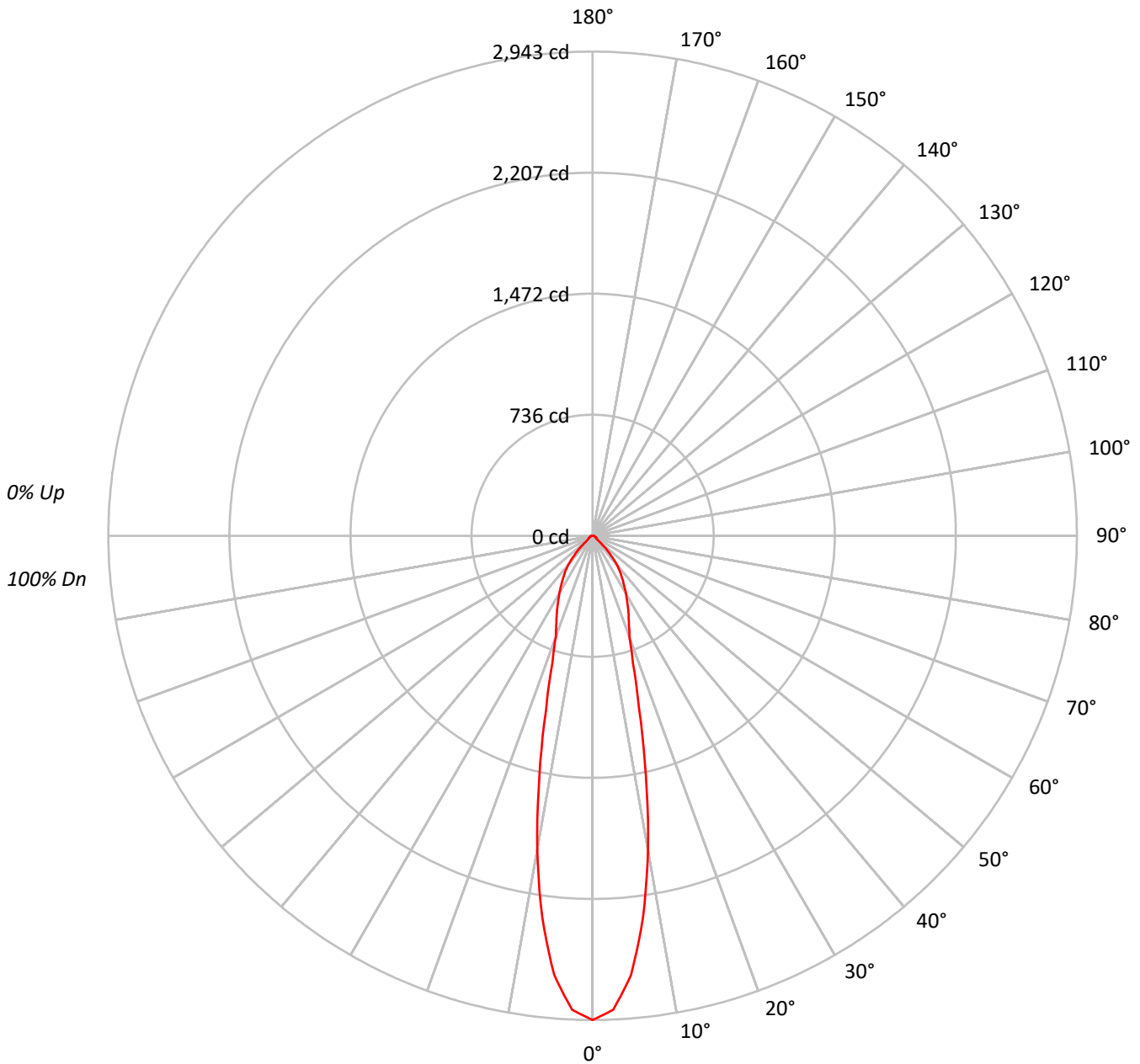
Lumens per Lamp: N/A
Luminaire Lumens: 1139.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (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: P641001
CATALOG NUMBER: ML5612LSNFL2597FS1E - 593WB - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641001

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593WB - 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	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	80	77	75																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	66	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	77	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	232347
5°	212298
10°	155508
15°	89220
20°	55025
25°	44788
30°	36817
35°	29980
40°	23629
45°	14502
50°	5367
55°	4060
60°	3789
65°	3474
70°	3531
75°	3660
80°	3455
85°	3985

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14502 cd/sqm



TEST NUMBER: P641001

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593WB - 900LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.6	20.3
10°-20°	313.7	27.5
20°-30°	236.7	20.8
30°-40°	194.9	17.1
40°-50°	99.3	8.7
50°-60°	27.8	2.4
60°-70°	18.9	1.7
70°-80°	12.2	1.1
80°-90°	4.0	0.4
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°	781.9	68.6
0°-40°	976.8	85.8
0°-60°	1103.9	96.9
0°-90°	1139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2943	
5°	2679	232
15°	1092	314
25°	514	237
35°	311	195
45°	130	99
55°	30	28
65°	19	19
75°	12	12
85°	4	4
90°	0	



TEST NUMBER: P641001

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593WB - 900LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2943.3
2.5°	2883.3
5°	2679.1
7.5°	2344.0
10°	1940.0
12.5°	1491.3
15°	1091.7
17.5°	813.3
20°	655.0
22.5°	574.3
25°	514.2
27.5°	456.3
30°	403.9
32.5°	354.8
35°	311.1
37.5°	271.8
40°	229.3
42.5°	176.9
45°	129.9
47.5°	79.7
50°	43.7
52.5°	33.8
55°	29.5
57.5°	27.3
60°	24.0
62.5°	21.8
65°	18.6
67.5°	16.4
70°	15.3
72.5°	13.1
75°	12.0
77.5°	9.8
80°	7.6
82.5°	5.5
85°	4.4
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)