

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: P643802

Luminaire Tested: ML5615LSWFL559FS1E - 593BB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 593BB - 1500LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

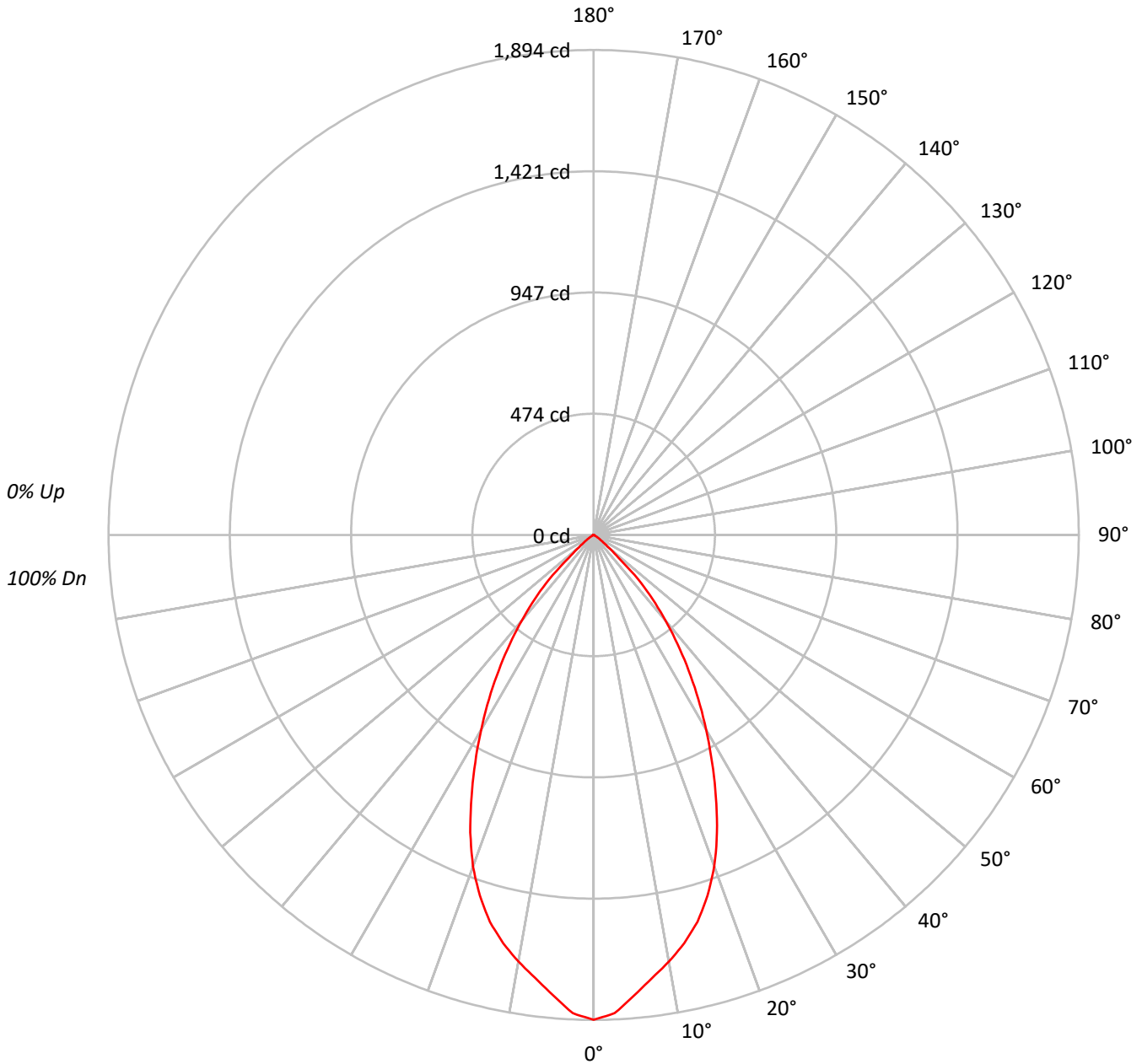
Lumens per Lamp: N/A
Luminaire Lumens: 1738.5 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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: P643802
CATALOG NUMBER: ML5615LSWFL559FS1E - 593BB - 1500LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P643802

CATALOG NUMBER: ML5615LSWFL559FS1E - 593BB - 1500LM - 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	108	106	111	108	106	104	104	102	101	101	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	82	86	83	81	79																			
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73																			
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68																			
6	86	77	71	66	85	76	70	66	75	69	65	73	69	65	72	68	65	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	77	68	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	149490
5°	143096
10°	135645
15°	127835
20°	115686
25°	98355
30°	80042
35°	62274
40°	44827
45°	27497
50°	9039
55°	3964
60°	1010
65°	299
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27497 cd/sqm



TEST NUMBER: P643802

CATALOG NUMBER: ML5615LSWFL559FS1E - 593BB - 1500LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	9.7
10°-20°	435.5	25.1
20°-30°	515.8	29.7
30°-40°	402.9	23.2
40°-50°	184.2	10.6
50°-60°	29.2	1.7
60°-70°	1.9	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1120.2	64.4
0°-40°	1523.1	87.6
0°-60°	1736.6	99.9
0°-90°	1738.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1738.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1894	
5°	1806	169
15°	1564	436
25°	1129	516
35°	646	403
45°	246	184
55°	29	29
65°	2	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P643802

CATALOG NUMBER: ML5615LSWFL559FS1E - 593BB - 1500LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1893.7
2.5°	1869.7
5°	1805.8
7.5°	1745.0
10°	1692.2
12.5°	1633.0
15°	1564.2
17.5°	1477.9
20°	1377.1
22.5°	1258.7
25°	1129.2
27.5°	1001.2
30°	878.1
32.5°	759.7
35°	646.2
37.5°	537.4
40°	435.0
42.5°	340.7
45°	246.3
47.5°	131.2
50°	73.6
52.5°	46.4
55°	28.8
57.5°	17.6
60°	6.4
62.5°	3.2
65°	1.6
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)