

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: P643979

Luminaire Tested: ML5615LSWFL559FS1E - 693BB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-64)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 693BB - 1200LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1588.8 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

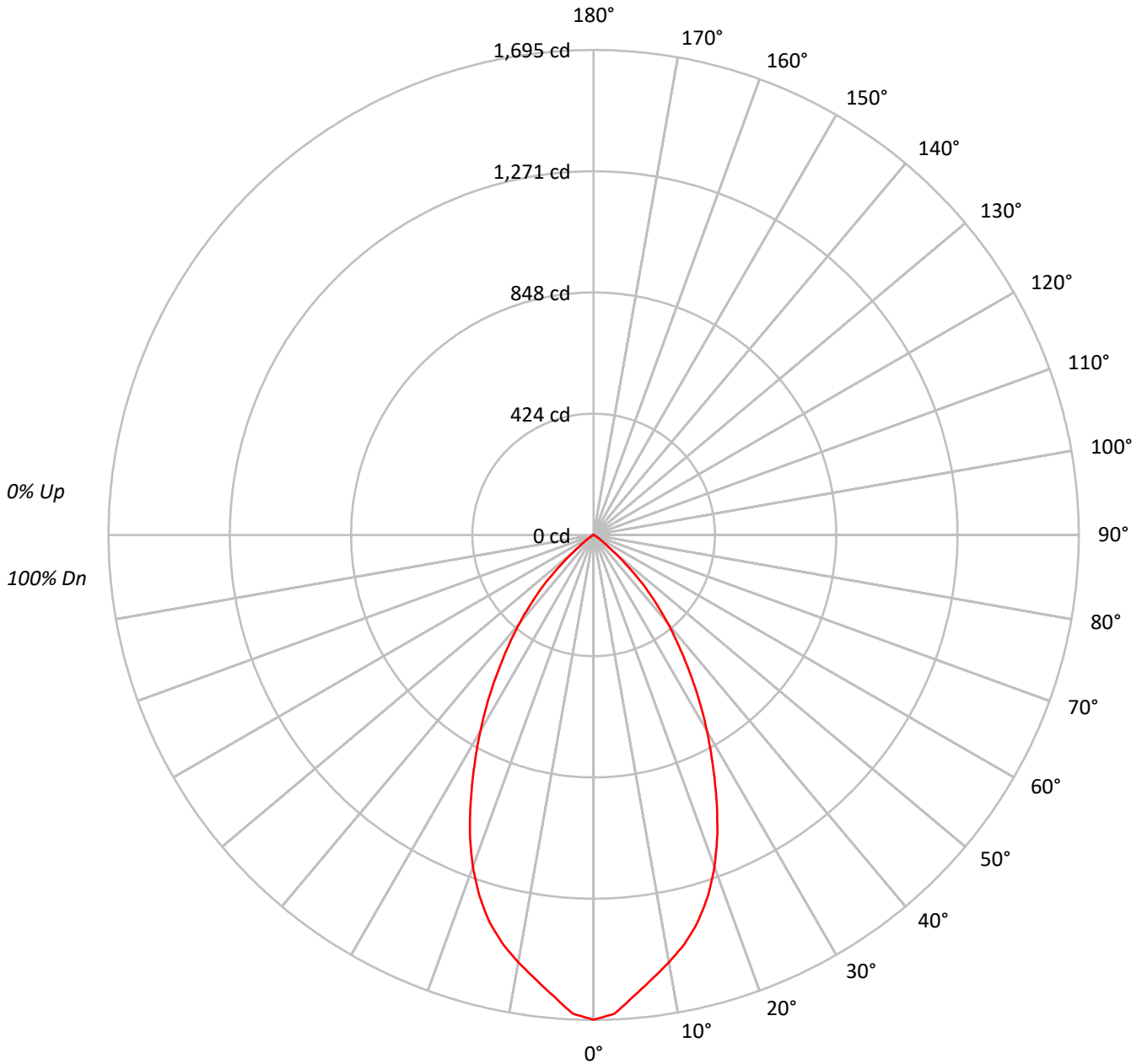
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643979

CATALOG NUMBER: ML5615LSWFL559FS1E - 693BB - 1200LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P643979

CATALOG NUMBER: ML5615LSWFL559FS1E - 693BB - 1200LM - 4000K

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	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	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																												
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86																												
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79																												
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73																												
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67																												
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62																												
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58																												
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54																												
9	73	63	57	53	72	62	56	52	61	56	52	61	56	52	60	55	52	50																												
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47																												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	92904
5°	88983
10°	84406
15°	79609
20°	72013
25°	61352
30°	50090
35°	38996
40°	28825
45°	18738
50°	7727
55°	2886
60°	1261
65°	182
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18738 cd/sqm



TEST NUMBER: P643979

CATALOG NUMBER: ML5615LSWFL559FS1E - 693BB - 1200LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.3	9.5
10°-20°	390.5	24.6
20°-30°	463.2	29.2
30°-40°	365.1	23.0
40°-50°	183.4	11.5
50°-60°	32.5	2.0
60°-70°	2.8	0.2
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°	1005.0	63.3
0°-40°	1370.1	86.2
0°-60°	1586.0	99.8
0°-90°	1588.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1588.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1695	
5°	1617	151
15°	1403	391
25°	1014	463
35°	583	365
45°	242	183
55°	30	32
65°	1	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P643979

CATALOG NUMBER: ML5615LSWFL559FS1E - 693BB - 1200LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1694.7
2.5°	1674.6
5°	1617.0
7.5°	1565.3
10°	1516.3
12.5°	1464.6
15°	1402.7
17.5°	1325.0
20°	1234.4
22.5°	1129.3
25°	1014.3
27.5°	899.2
30°	791.3
32.5°	686.2
35°	582.7
37.5°	489.1
40°	402.8
42.5°	319.4
45°	241.7
47.5°	156.8
50°	90.6
52.5°	47.5
55°	30.2
57.5°	18.7
60°	11.5
62.5°	4.3
65°	1.4
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)