

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: P643318

Luminaire Tested: ML5615LSVWFL759FS1E - 693TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-89)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 693TBZB - 1200LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

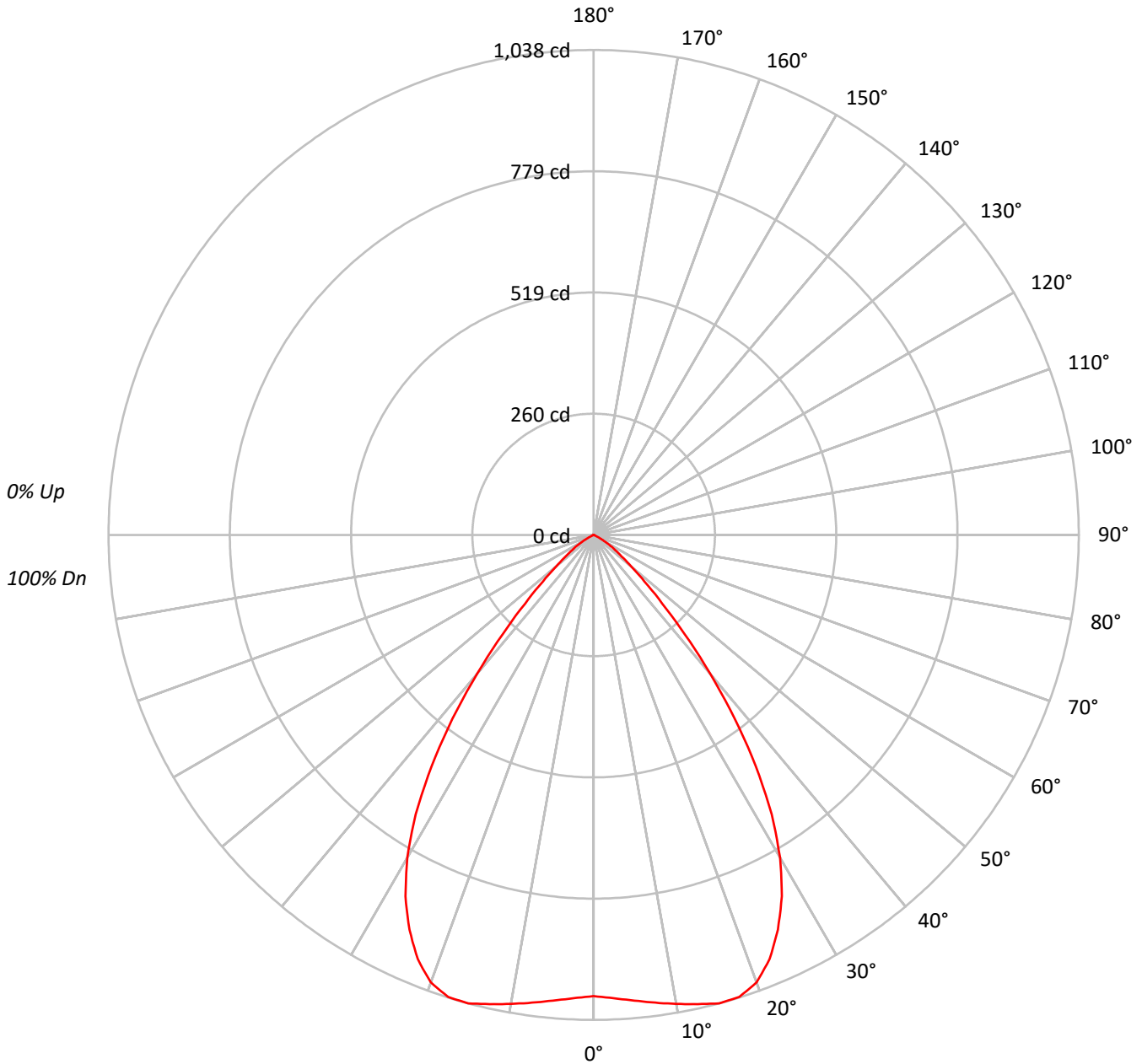
Lumens per Lamp: N/A
Luminaire Lumens: 1413.8 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
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: P643318
CATALOG NUMBER: ML5615LSVWFL759FS1E - 693TBZB - 1200LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643318

CATALOG NUMBER: ML5615LSVWFL759FS1E - 693TBZB - 1200LM - 3500K

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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70	70	70	70
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65	65	65	65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59	59	59	59
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55	55	55	55
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50	50	50	50
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47	47	47	47
10	67	56	49	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43	43	43	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	54113
5°	55057
10°	56735
15°	58905
20°	59459
25°	56392
30°	50463
35°	40462
40°	27659
45°	16071
50°	8895
55°	5371
60°	2785
65°	700
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16071 cd/sqm



TEST NUMBER: P643318

CATALOG NUMBER: ML5615LSVWFL759FS1E - 693TBZB - 1200LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	6.8
10°-20°	292.2	20.7
20°-30°	424.6	30.0
30°-40°	372.1	26.3
40°-50°	168.8	11.9
50°-60°	52.3	3.7
60°-70°	7.6	0.5
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°	813.0	57.5
0°-40°	1185.0	83.8
0°-60°	1406.2	99.5
0°-90°	1413.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1413.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	987	
5°	1000	96
15°	1038	292
25°	932	425
35°	605	372
45°	207	169
55°	56	52
65°	5	8
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P643318

CATALOG NUMBER: ML5615LSVWFL759FS1E - 693TBZB - 1200LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	987.1
2.5°	992.4
5°	1000.5
7.5°	1009.8
10°	1019.2
12.5°	1028.6
15°	1037.9
17.5°	1036.6
20°	1019.2
22.5°	983.1
25°	932.3
27.5°	872.1
30°	797.2
32.5°	708.9
35°	604.6
37.5°	496.2
40°	386.5
42.5°	287.6
45°	207.3
47.5°	147.1
50°	104.3
52.5°	74.9
55°	56.2
57.5°	40.1
60°	25.4
62.5°	12.0
65°	5.4
67.5°	1.3
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)