

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: P643236

Luminaire Tested: ML5615LSVWFL759FS1E - 691WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 691WB - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1093.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

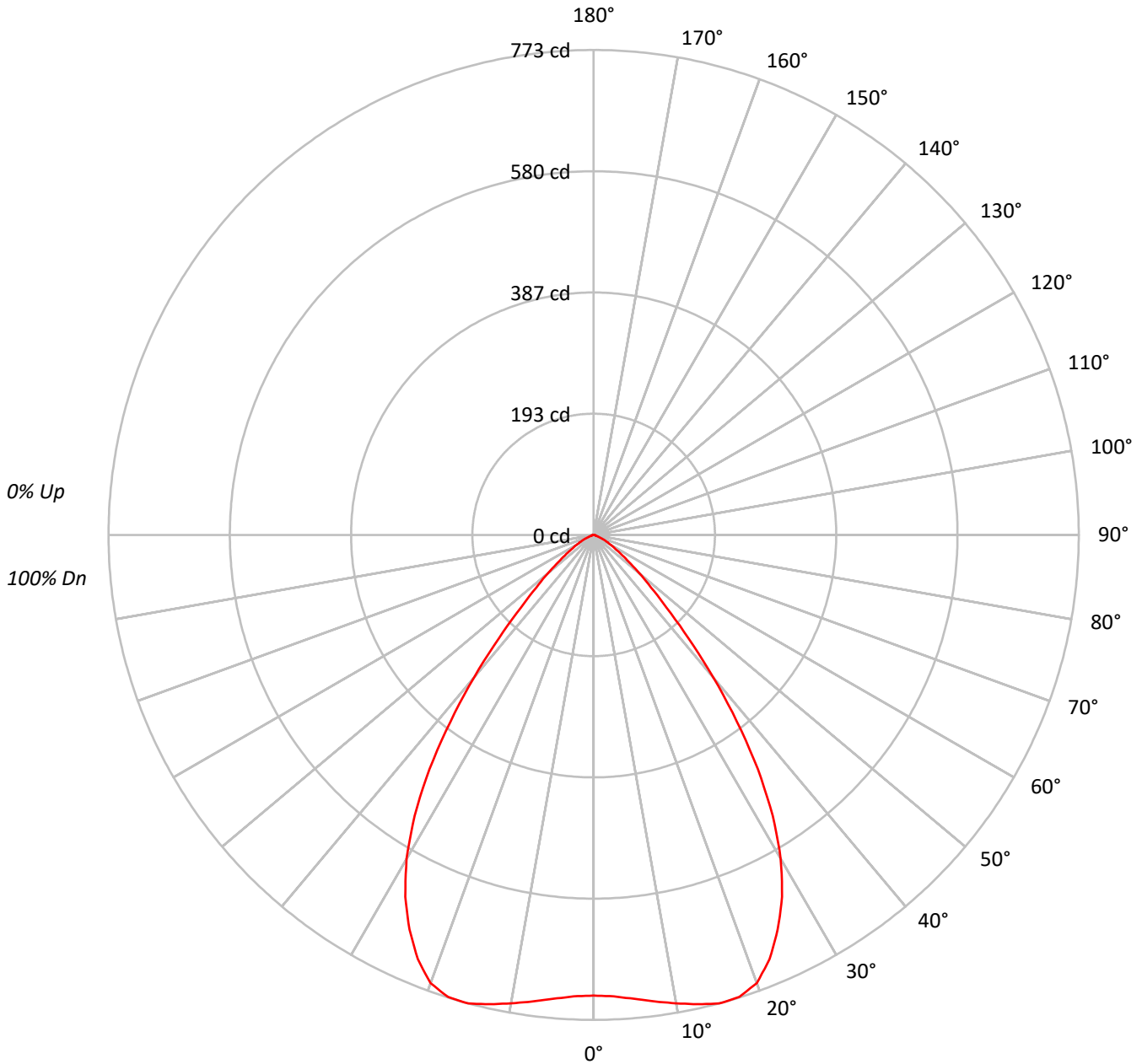
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643236

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P643236

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 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	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																			
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69																			
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58																			
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53																			
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49																			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40243
5°	40837
10°	42200
15°	43877
20°	44343
25°	41984
30°	37734
35°	30517
40°	21183
45°	12714
50°	8102
55°	5066
60°	3399
65°	2205
70°	1122
75°	635
80°	631
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12714 cd/sqm



TEST NUMBER: P643236

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 900LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	6.5
10°-20°	217.7	19.9
20°-30°	316.5	29.0
30°-40°	280.2	25.6
40°-50°	134.7	12.3
50°-60°	50.2	4.6
60°-70°	17.2	1.6
70°-80°	3.8	0.3
80°-90°	1.4	0.1
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°	605.5	55.4
0°-40°	885.8	81.0
0°-60°	1070.6	98.0
0°-90°	1093.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1093.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	734	
5°	742	71
15°	773	218
25°	694	317
35°	456	280
45°	164	135
55°	53	50
65°	17	17
75°	3	4
85°	1	1
90°	0	



TEST NUMBER: P643236

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 900LM - 2700K

CANDELA DISTRIBUTION (FULL):

0°	
0°	734.1
2.5°	736.1
5°	742.1
7.5°	750.1
10°	758.1
12.5°	766.1
15°	773.1
17.5°	772.1
20°	760.1
22.5°	732.1
25°	694.1
27.5°	650.1
30°	596.1
32.5°	531.1
35°	456.0
37.5°	375.0
40°	296.0
42.5°	223.0
45°	164.0
47.5°	124.0
50°	95.0
52.5°	70.0
55°	53.0
57.5°	40.0
60°	31.0
62.5°	24.0
65°	17.0
67.5°	10.0
70°	7.0
72.5°	4.0
75°	3.0
77.5°	3.0
80°	2.0
82.5°	2.0
85°	1.0
87.5°	1.0
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)