

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: P643060

Luminaire Tested: ML5615LSVWFL759FS1E - 591WB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 591WB - 900LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

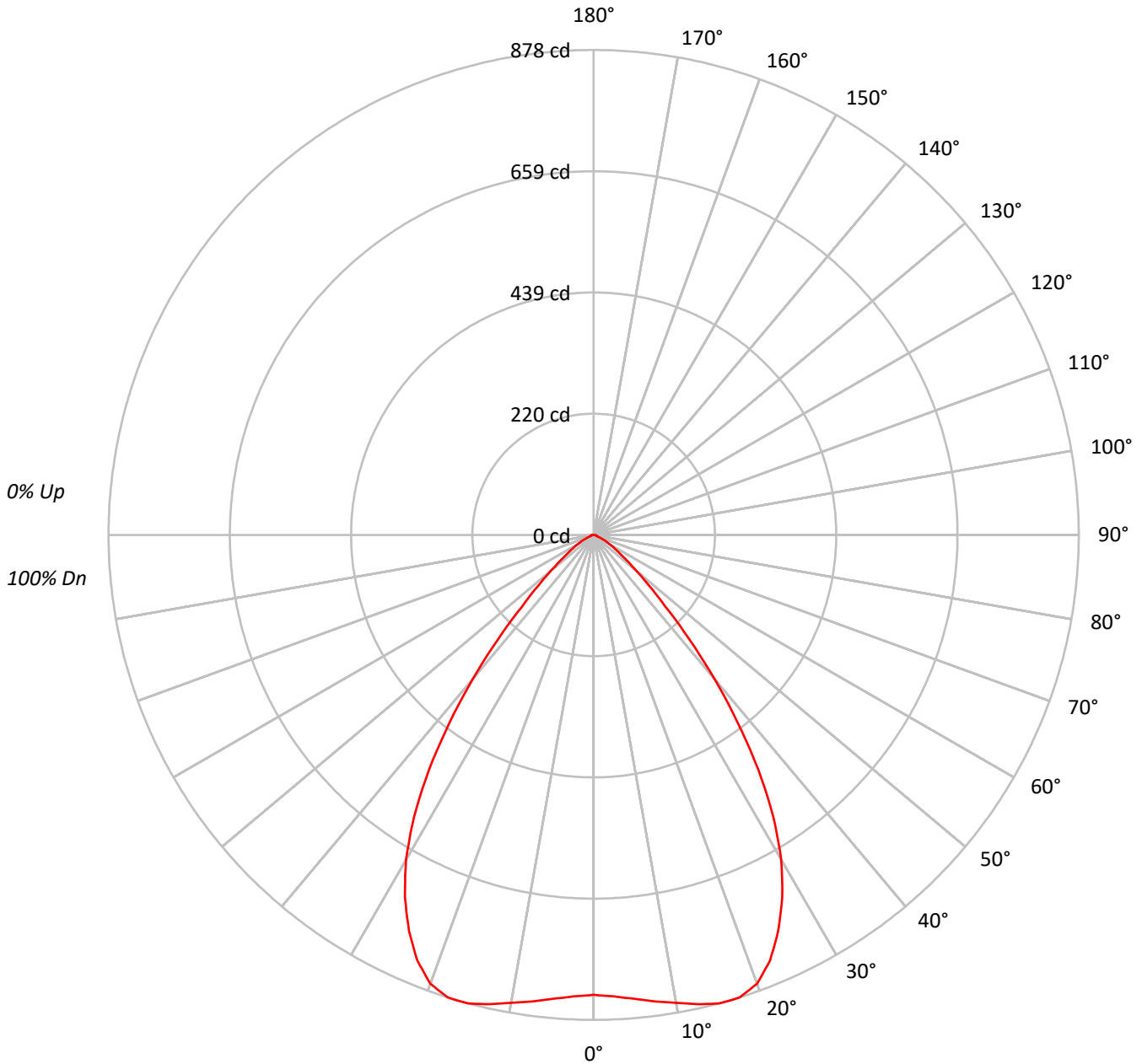
Lumens per Lamp: N/A  
Luminaire Lumens: 1237.3 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P643060  
CATALOG NUMBER: ML5615LSVWFL759FS1E - 591WB - 900LM - 5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643060

CATALOG NUMBER: ML5615LSVWFL759FS1E - 591WB - 900LM - 5000K

**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	99	98	96	96	95	94	92																			
2	106	101	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	77	73	80	75	72	78	74	71	69																			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58																			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53																			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49																			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	45649
5°	46384
10°	47873
15°	49841
20°	50434
25°	47821
30°	42988
35°	34787
40°	24338
45°	14288
50°	8537
55°	5324
60°	3618
65°	2062
70°	1090
75°	974
80°	1073
85°	1447

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14288 cd/sqm



TEST NUMBER: P643060

CATALOG NUMBER: ML5615LSVWFL759FS1E - 591WB - 900LM - 5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	6.5
10°-20°	247.4	20.0
20°-30°	360.3	29.1
30°-40°	319.7	25.8
40°-50°	151.3	12.2
50°-60°	52.9	4.3
60°-70°	17.2	1.4
70°-80°	5.3	0.4
80°-90°	2.3	0.2
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°	688.7	55.7
0°-40°	1008.4	81.5
0°-60°	1212.6	98.0
0°-90°	1237.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1237.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	833	
5°	843	81
15°	878	247
25°	791	360
35°	520	320
45°	184	151
55°	56	53
65°	16	17
75°	5	5
85°	2	2
90°	0	



TEST NUMBER: P643060

CATALOG NUMBER: ML5615LSVWFL759FS1E - 591WB - 900LM - 5000K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	832.7
2.5°	836.1
5°	842.9
7.5°	852.0
10°	860.0
12.5°	870.2
15°	878.2
17.5°	878.2
20°	864.5
22.5°	833.8
25°	790.6
27.5°	739.4
30°	679.1
32.5°	605.2
35°	519.8
37.5°	427.7
40°	340.1
42.5°	254.8
45°	184.3
47.5°	135.4
50°	100.1
52.5°	72.8
55°	55.7
57.5°	43.2
60°	33.0
62.5°	23.9
65°	15.9
67.5°	10.2
70°	6.8
72.5°	5.7
75°	4.6
77.5°	4.6
80°	3.4
82.5°	3.4
85°	2.3
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)