

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: P643629

Luminaire Tested: ML5615LSVWFL9FS1E - 692W - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-108)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 692W - 900LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

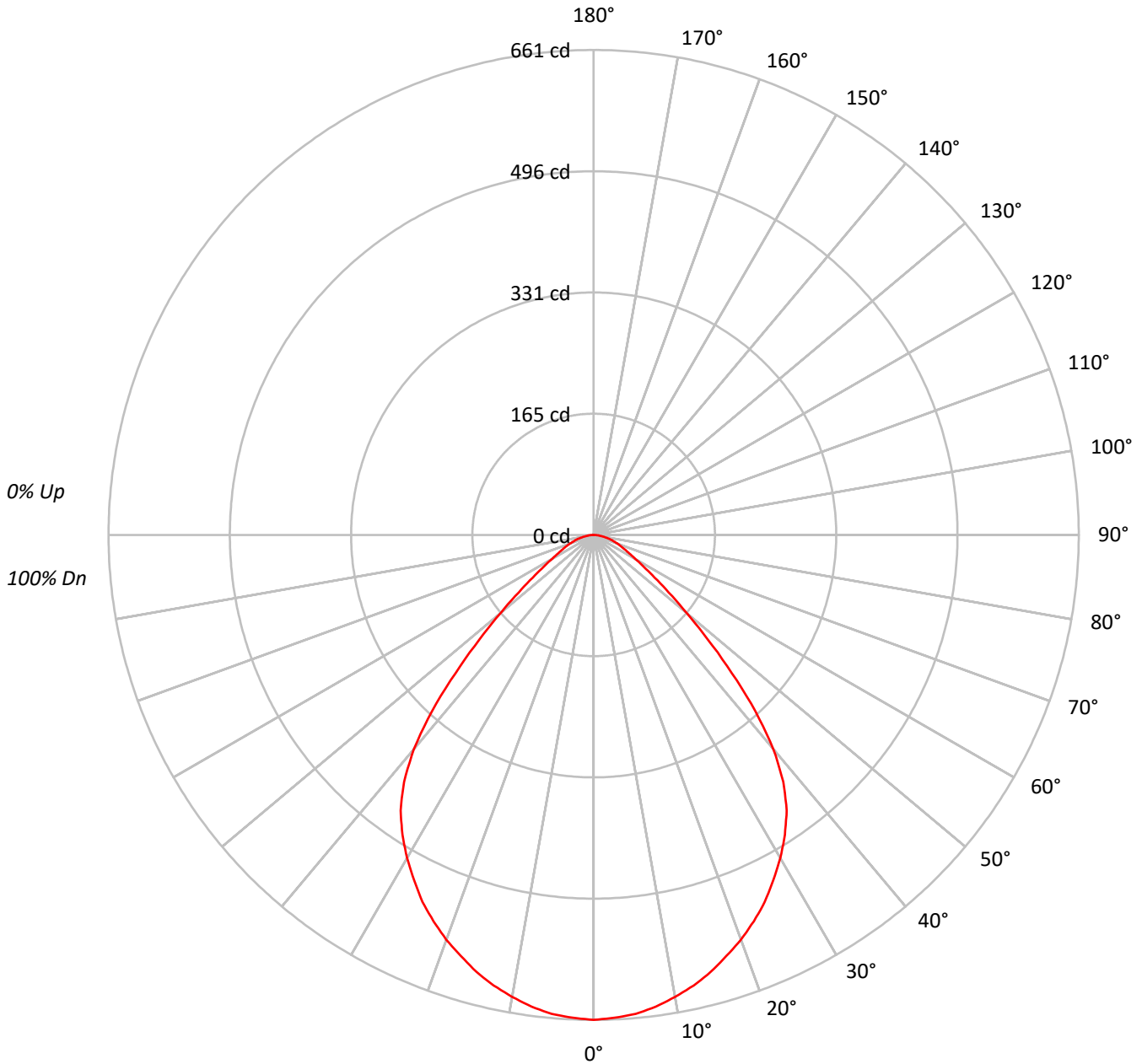
Lumens per Lamp: N/A  
Luminaire Lumens: 1151.6 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P643629  
CATALOG NUMBER: ML5615LSVWFL9FS1E - 692W - 900LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643629

CATALOG NUMBER: ML5615LSVWFL9FS1E - 692W - 900LM - 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	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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70	70	70	70
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63	63	63	63
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56	56	56	56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50	50	50	50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	47	46	46	46	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42	42	42	42
9	64	52	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

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

	0°
0°	36236
5°	36061
10°	35593
15°	34995
20°	34245
25°	33377
30°	32188
35°	30684
40°	27273
45°	20638
50°	14072
55°	9682
60°	7236
65°	6045
70°	5466
75°	5062
80°	4325
85°	3585

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20638 cd/sqm



TEST NUMBER: P643629

CATALOG NUMBER: ML5615LSVWFL9FS1E - 692W - 900LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	5.4
10°-20°	173.6	15.1
20°-30°	253.5	22.0
30°-40°	283.1	24.6
40°-50°	206.0	17.9
50°-60°	94.8	8.2
60°-70°	47.2	4.1
70°-80°	24.9	2.2
80°-90°	6.5	0.6
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°	489.1	42.5
0°-40°	772.2	67.1
0°-60°	1073.0	93.2
0°-90°	1151.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	661	
5°	655	62
15°	617	174
25°	552	253
35°	458	283
45°	266	206
55°	101	95
65°	47	47
75°	24	25
85°	6	7
90°	0	



TEST NUMBER: P643629

CATALOG NUMBER: ML5615LSVWFL9FS1E - 692W - 900LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	661.0
2.5°	658.7
5°	655.3
7.5°	648.5
10°	639.4
12.5°	629.1
15°	616.6
17.5°	601.8
20°	587.0
22.5°	570.0
25°	551.8
27.5°	530.2
30°	508.5
32.5°	484.7
35°	458.5
37.5°	424.4
40°	381.1
42.5°	326.5
45°	266.2
47.5°	210.5
50°	165.0
52.5°	128.6
55°	101.3
57.5°	80.8
60°	66.0
62.5°	54.6
65°	46.6
67.5°	39.8
70°	34.1
72.5°	28.4
75°	23.9
77.5°	18.2
80°	13.7
82.5°	9.1
85°	5.7
87.5°	2.3
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)