

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: P640443

Luminaire Tested: ML5609LSVWFLD2W1E - 592W - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-96)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFLD2W1E - 592W - 900LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 978.9 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

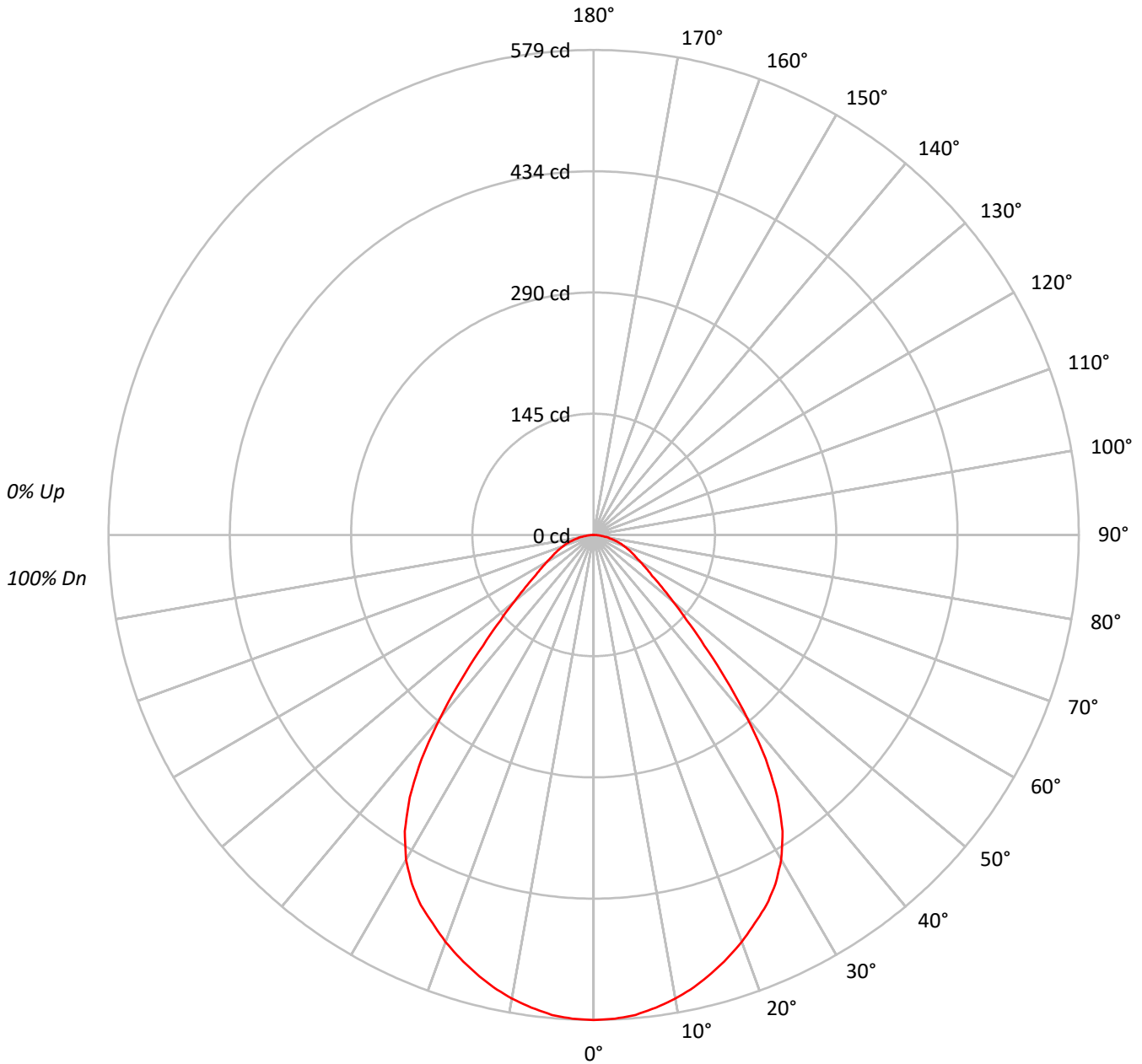
Input Watts (W): 11.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P640443

CATALOG NUMBER: ML5609LSVWFLD2W1E - 592W - 900LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P640443

CATALOG NUMBER: ML5609LSVWFLD2W1E - 592W - 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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	52	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°
0°	31752
5°	31653
10°	31295
15°	30766
20°	30161
25°	29512
30°	28340
35°	25598
40°	20403
45°	14474
50°	10533
55°	8153
60°	7039
65°	6512
70°	6107
75°	5740
80°	5083
85°	3774

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14474 cd/sqm



TEST NUMBER: P640443

CATALOG NUMBER: ML5609LSVWFLD2W1E - 592W - 900LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.5	5.6
10°-20°	152.8	15.6
20°-30°	223.8	22.9
30°-40°	234.5	24.0
40°-50°	148.2	15.1
50°-60°	79.3	8.1
60°-70°	49.9	5.1
70°-80°	28.6	2.9
80°-90°	7.4	0.8
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°	431.0	44.0
0°-40°	665.5	68.0
0°-60°	893.1	91.2
0°-90°	978.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	978.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	579	
5°	575	54
15°	542	153
25°	488	224
35°	382	234
45°	187	148
55°	85	79
65°	50	50
75°	27	29
85°	6	7
90°	0	



TEST NUMBER: P640443

CATALOG NUMBER: ML5609LSVWFLD2W1E - 592W - 900LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	579.2
2.5°	578.2
5°	575.2
7.5°	569.2
10°	562.2
12.5°	553.1
15°	542.1
17.5°	530.1
20°	517.0
22.5°	501.9
25°	487.9
27.5°	469.8
30°	447.7
32.5°	419.6
35°	382.5
37.5°	337.3
40°	285.1
42.5°	232.9
45°	186.7
47.5°	150.6
50°	123.5
52.5°	102.4
55°	85.3
57.5°	74.3
60°	64.2
62.5°	56.2
65°	50.2
67.5°	44.2
70°	38.1
72.5°	33.1
75°	27.1
77.5°	21.1
80°	16.1
82.5°	11.0
85°	6.0
87.5°	2.0
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)