

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: P640442

Luminaire Tested: ML5609LSVWFLD2W1E - 592SC - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-94)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFLD2W1E - 592SC - 900LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" SPECULAR CLEAR TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1089.7 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.95  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

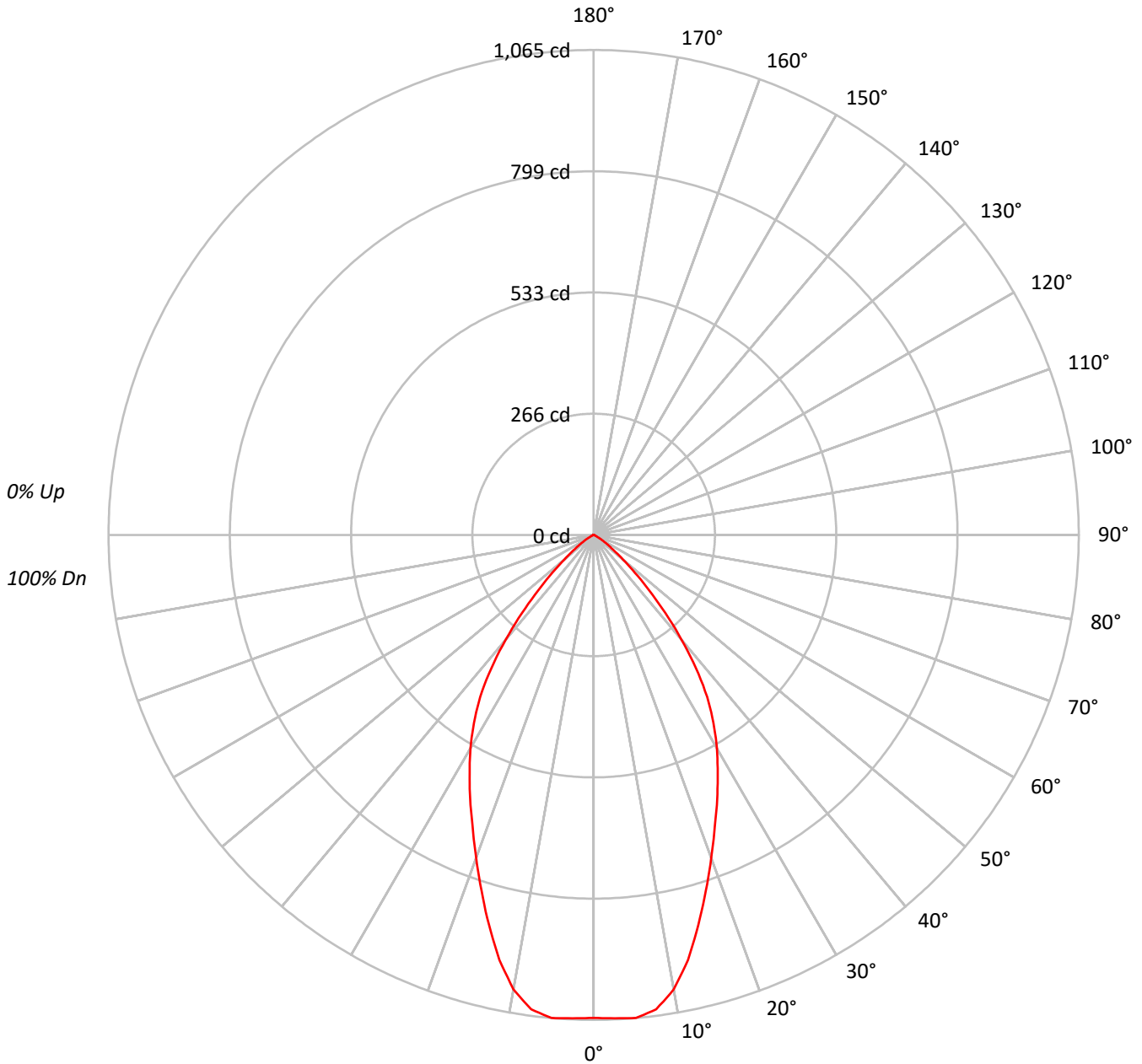
Input Watts (W): 11.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**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			100																
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93																
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71			71																
5	90	81	74	69	88	80	74	69	78	73	69	76	71	68	74	70	67	66			66																
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	65	62	61			61																
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56			56																
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52			52																
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48			48																
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45																

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

	0°
0°	83717
5°	84377
10°	81209
15°	72491
20°	63375
25°	55850
30°	49314
35°	41853
40°	30874
45°	19135
50°	10328
55°	5189
60°	2384
65°	1009
70°	508
75°	336
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19135 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.0	9.2
10°-20°	247.5	22.7
20°-30°	294.8	27.1
30°-40°	266.2	24.4
40°-50°	136.9	12.6
50°-60°	37.1	3.4
60°-70°	6.1	0.6
70°-80°	1.2	0.1
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°	642.3	58.9
0°-40°	908.5	83.4
0°-60°	1082.5	99.3
0°-90°	1089.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1089.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1060	
5°	1065	100
15°	887	247
25°	641	295
35°	434	266
45°	171	137
55°	38	37
65°	5	6
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1060.5
2.5°	1062.6
5°	1064.8
7.5°	1050.8
10°	1013.1
12.5°	955.9
15°	887.0
17.5°	819.1
20°	754.4
22.5°	694.0
25°	641.2
27.5°	589.5
30°	541.0
32.5°	489.3
35°	434.3
37.5°	369.7
40°	299.6
42.5°	232.8
45°	171.4
47.5°	122.9
50°	84.1
52.5°	56.0
55°	37.7
57.5°	24.8
60°	15.1
62.5°	8.6
65°	5.4
67.5°	2.2
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
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

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— 0°-180°

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(END OF REPORT)