

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P640463

Luminaire Tested: ML5609LSVWFLD2W1E - 692H - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640463  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-107)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFLD2W1E - 692H - 900LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" HAZE TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 979.0 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.1  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

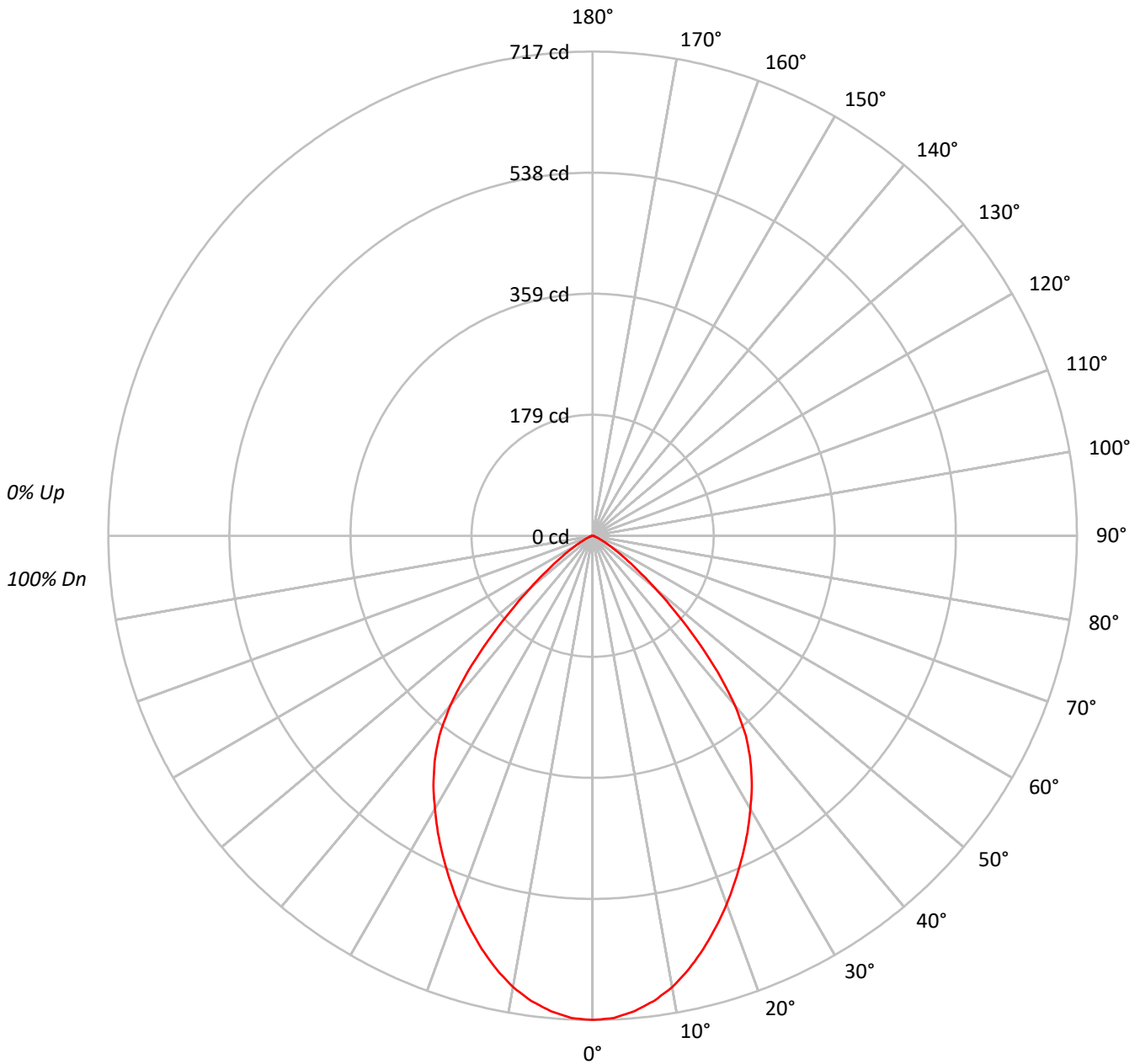
Input Watts (W): 11.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**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
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83			83
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75			75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67			67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61			61
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56			56
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51			51
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47			47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			43
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40			40

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

	0°
0°	39301
5°	38895
10°	37780
15°	35954
20°	33854
25°	31701
30°	29555
35°	27278
40°	23422
45°	16816
50°	10192
55°	5754
60°	3081
65°	1427
70°	801
75°	635
80°	316
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16816 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.6	6.8
10°-20°	177.7	18.2
20°-30°	241.0	24.6
30°-40°	252.1	25.8
40°-50°	167.8	17.1
50°-60°	57.7	5.9
60°-70°	12.9	1.3
70°-80°	2.9	0.3
80°-90°	0.4	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°	485.3	49.6
0°-40°	737.4	75.3
0°-60°	962.8	98.3
0°-90°	979.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	979.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	717	
5°	707	67
15°	634	178
25°	524	241
35°	408	252
45°	217	168
55°	60	58
65°	11	13
75°	3	3
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	716.9
2.5°	714.8
5°	706.8
7.5°	694.8
10°	678.7
12.5°	657.6
15°	633.5
17.5°	607.4
20°	580.3
22.5°	552.2
25°	524.1
27.5°	496.0
30°	466.9
32.5°	438.7
35°	407.6
37.5°	372.5
40°	327.3
42.5°	274.1
45°	216.9
47.5°	163.7
50°	119.5
52.5°	85.3
55°	60.2
57.5°	41.2
60°	28.1
62.5°	18.1
65°	11.0
67.5°	7.0
70°	5.0
72.5°	3.0
75°	3.0
77.5°	2.0
80°	1.0
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)