

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: P640477

Luminaire Tested: ML5609LSVWFLD2W1E - 694TBZB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-114)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFLD2W1E - 694TBZB - 900LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

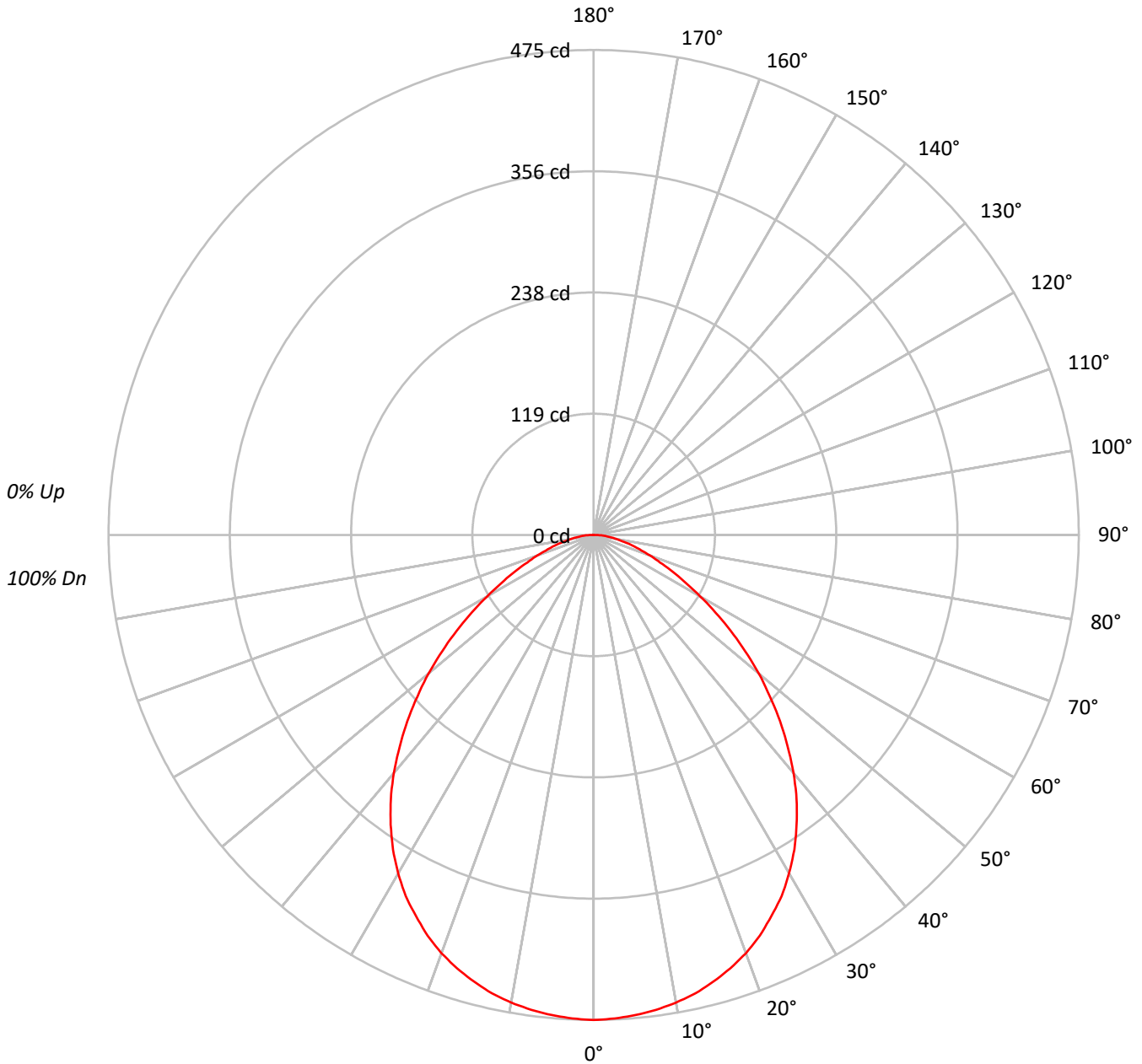
Lumens per Lamp: N/A  
Luminaire Lumens: 1062.3 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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				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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87				87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74				74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64				64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56				56
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49				49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44				44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39				39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35				35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32				32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29				29

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

	0°
0°	26045
5°	25979
10°	25890
15°	25710
20°	25430
25°	24909
30°	24225
35°	23189
40°	21784
45°	20010
50°	17987
55°	15646
60°	13212
65°	11078
70°	9345
75°	8091
80°	6977
85°	6919

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20010 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.8	4.2
10°-20°	127.7	12.0
20°-30°	189.6	17.8
30°-40°	216.1	20.3
40°-50°	198.6	18.7
50°-60°	146.8	13.8
60°-70°	85.6	8.1
70°-80°	40.8	3.8
80°-90°	12.3	1.2
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°	362.2	34.1
0°-40°	578.3	54.4
0°-60°	923.7	86.9
0°-90°	1062.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1062.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	475	
5°	472	45
15°	453	128
25°	412	190
35°	346	216
45°	258	199
55°	164	147
65°	85	86
75°	38	41
85°	11	12
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	475.1
2.5°	474.1
5°	472.1
7.5°	469.1
10°	465.1
12.5°	460.0
15°	453.0
17.5°	445.0
20°	435.9
22.5°	424.9
25°	411.8
27.5°	398.8
30°	382.7
32.5°	365.6
35°	346.5
37.5°	326.4
40°	304.4
42.5°	281.2
45°	258.1
47.5°	234.0
50°	210.9
52.5°	186.8
55°	163.7
57.5°	141.6
60°	120.5
62.5°	101.5
65°	85.4
67.5°	70.3
70°	58.3
72.5°	47.2
75°	38.2
77.5°	29.1
80°	22.1
82.5°	16.1
85°	11.0
87.5°	7.0
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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Scaled Data Report



(END OF REPORT)