

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: P640456

Luminaire Tested: ML5609LSVWFLD2W1E - 594TBZB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-103)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFLD2W1E - 594TBZB - 900LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

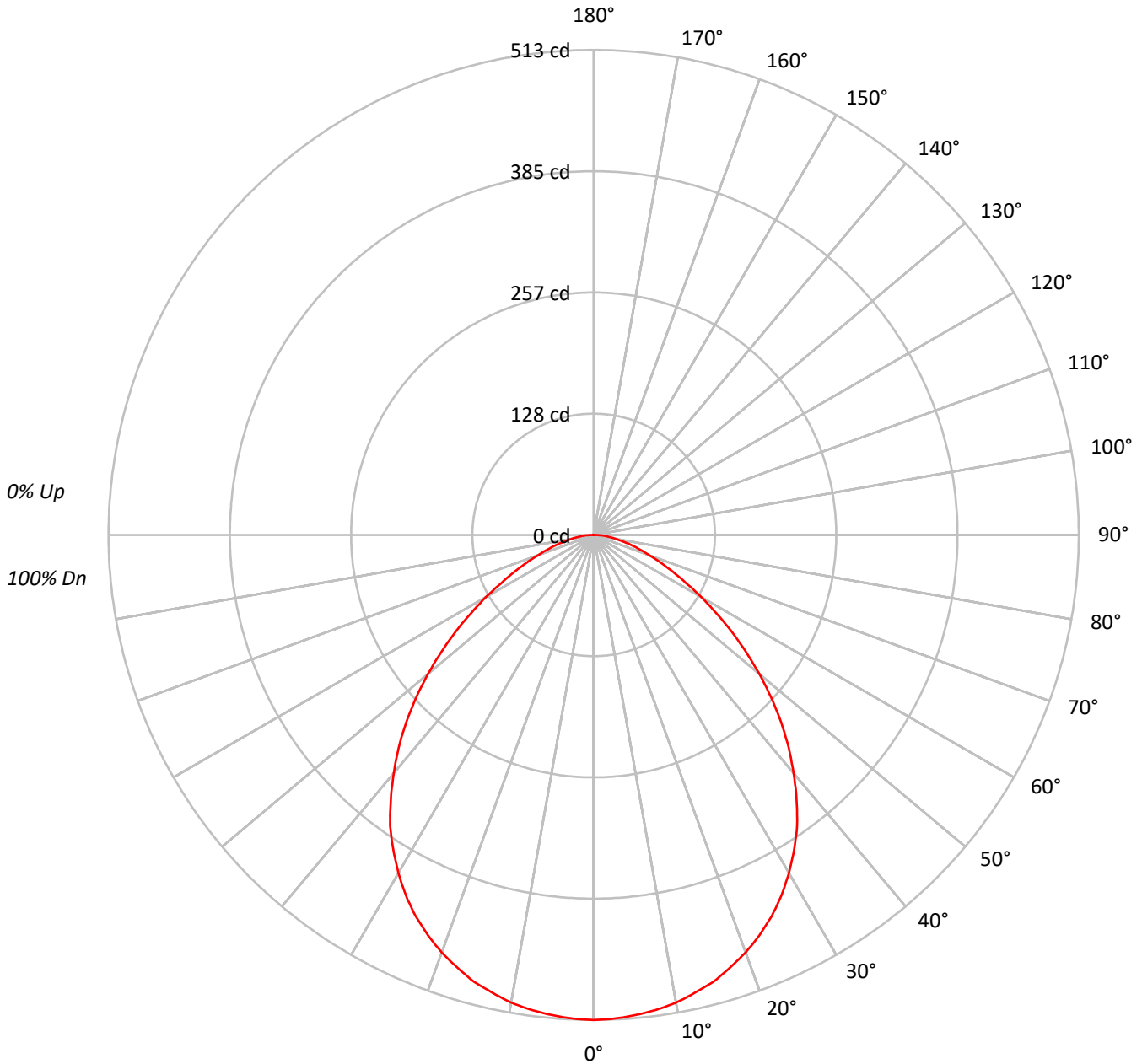
Lumens per Lamp: N/A  
Luminaire Lumens: 1148.9 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.8  
Input Voltage (V): NR  
Input Current (Ain): 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	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49				49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	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	44	38	34	43	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°	40512
5°	40406
10°	40272
15°	39997
20°	39483
25°	38778
30°	37637
35°	36158
40°	33883
45°	31293
50°	28062
55°	24484
60°	20761
65°	17315
70°	14425
75°	12505
80°	10774
85°	10778

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31293 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.4	4.2
10°-20°	137.8	12.0
20°-30°	204.6	17.8
30°-40°	233.5	20.3
40°-50°	215.5	18.8
50°-60°	159.2	13.9
60°-70°	92.9	8.1
70°-80°	43.8	3.8
80°-90°	13.2	1.1
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°	390.9	34.0
0°-40°	624.3	54.3
0°-60°	999.1	87.0
0°-90°	1148.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1148.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	513	
5°	510	48
15°	489	138
25°	445	205
35°	375	233
45°	280	215
55°	178	159
65°	93	93
75°	41	44
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	513.2
2.5°	512.1
5°	509.9
7.5°	506.7
10°	502.4
12.5°	495.9
15°	489.4
17.5°	479.7
20°	470.0
22.5°	458.2
25°	445.2
27.5°	430.1
30°	412.9
32.5°	394.6
35°	375.2
37.5°	352.5
40°	328.8
42.5°	305.1
45°	280.3
47.5°	254.4
50°	228.5
52.5°	202.7
55°	177.9
57.5°	153.1
60°	131.5
62.5°	110.0
65°	92.7
67.5°	76.5
70°	62.5
72.5°	50.7
75°	41.0
77.5°	31.3
80°	23.7
82.5°	17.2
85°	11.9
87.5°	7.5
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)