

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: P640478

Luminaire Tested: ML5609LSVWFLD2W1E - 694TBZB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640478  
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 - 3000K  
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

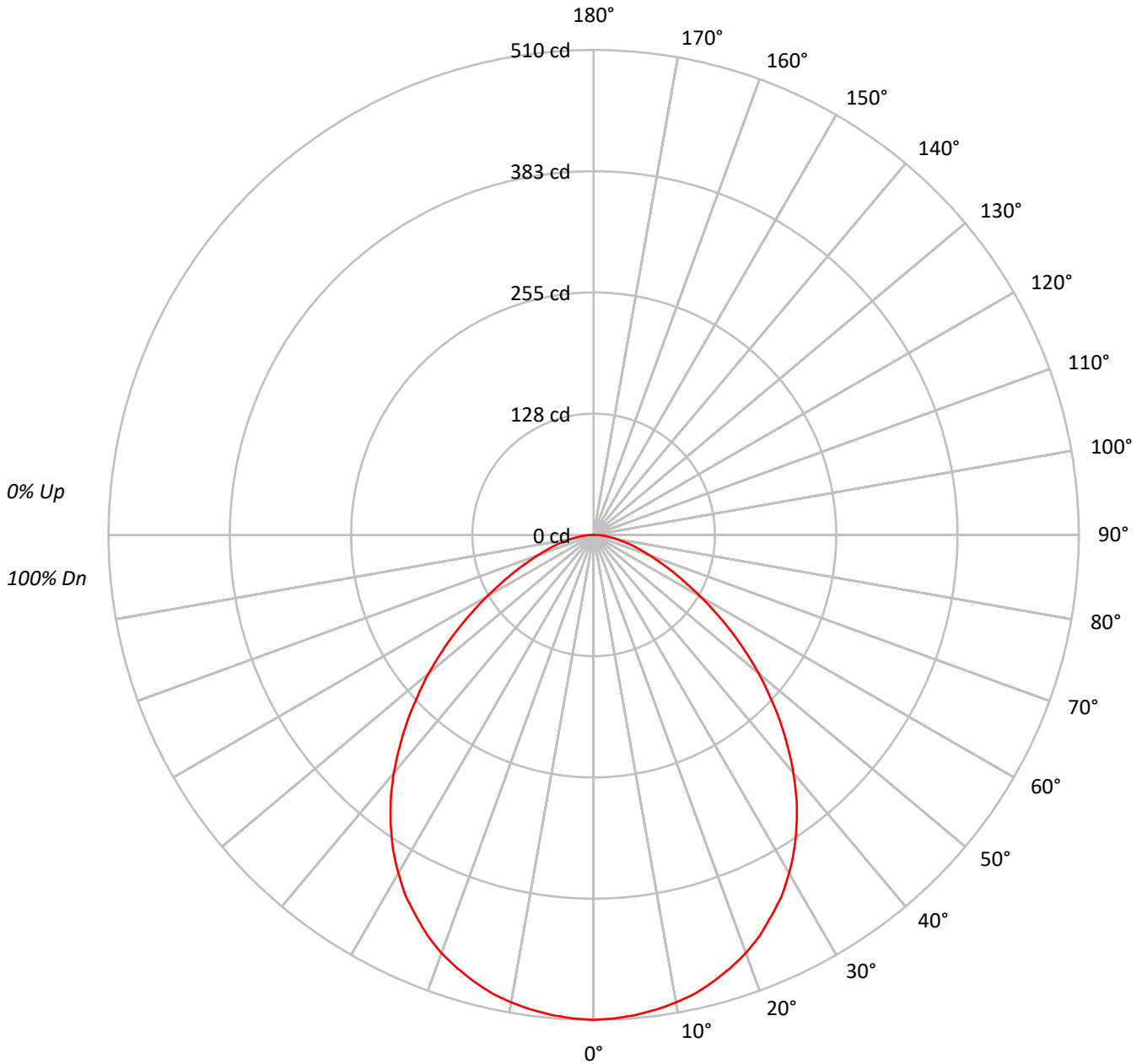
Lumens per Lamp: N/A  
Luminaire Lumens: 1140.3 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	27958
5°	27883
10°	27788
15°	27594
20°	27297
25°	26735
30°	26004
35°	24895
40°	23380
45°	21483
50°	19309
55°	16793
60°	14187
65°	11882
70°	10018
75°	8684
80°	7482
85°	7485

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21483 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.1	4.2
10°-20°	137.1	12.0
20°-30°	203.5	17.8
30°-40°	232.0	20.3
40°-50°	213.2	18.7
50°-60°	157.5	13.8
60°-70°	91.9	8.1
70°-80°	43.8	3.8
80°-90°	13.2	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°	388.8	34.1
0°-40°	620.7	54.4
0°-60°	991.5	86.9
0°-90°	1140.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1140.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	510	
5°	507	48
15°	486	137
25°	442	204
35°	372	232
45°	277	213
55°	176	158
65°	92	92
75°	41	44
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	510.0
2.5°	508.9
5°	506.7
7.5°	503.5
10°	499.2
12.5°	493.8
15°	486.2
17.5°	477.6
20°	467.9
22.5°	456.1
25°	442.0
27.5°	428.0
30°	410.8
32.5°	392.4
35°	372.0
37.5°	350.4
40°	326.7
42.5°	301.9
45°	277.1
47.5°	251.2
50°	226.4
52.5°	200.5
55°	175.7
57.5°	152.0
60°	129.4
62.5°	108.9
65°	91.6
67.5°	75.5
70°	62.5
72.5°	50.7
75°	41.0
77.5°	31.3
80°	23.7
82.5°	17.3
85°	11.9
87.5°	7.5
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)