

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: P640468

Luminaire Tested: ML5609LSVWFLD2W1E - 692W - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640468  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-108)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFLD2W1E - 692W - 900LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

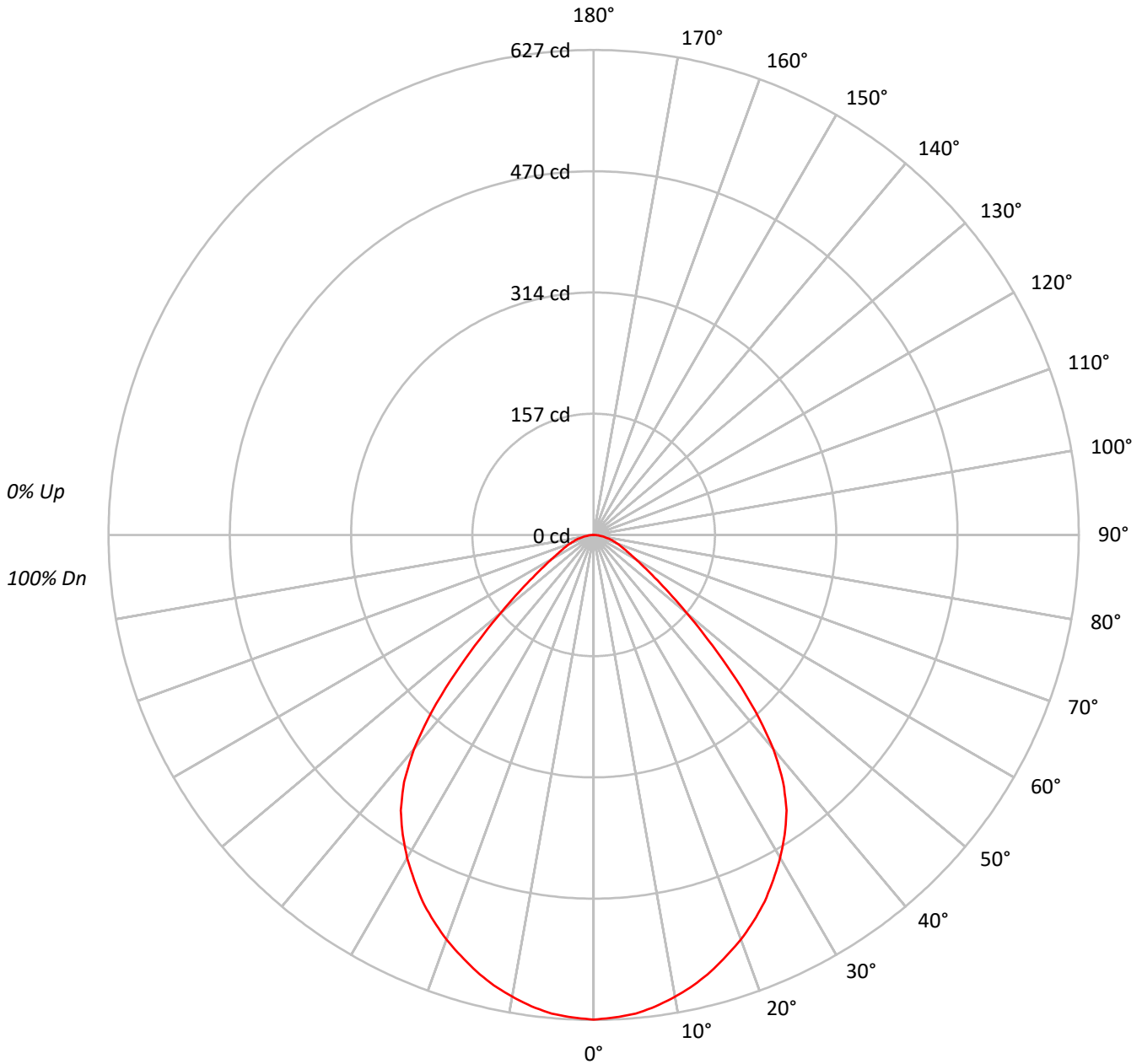
Lumens per Lamp: N/A  
Luminaire Lumens: 1091.9 lumens  
Efficiency: N/A  
Efficacy: 92.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	47	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	52	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

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

	0°
0°	34356
5°	34190
10°	33745
15°	33178
20°	32471
25°	31641
30°	30517
35°	29091
40°	25856
45°	19568
50°	13339
55°	9175
60°	6863
65°	5733
70°	5193
75°	4808
80°	4072
85°	3397

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19568 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.8	5.4
10°-20°	164.6	15.1
20°-30°	240.3	22.0
30°-40°	268.4	24.6
40°-50°	195.3	17.9
50°-60°	89.8	8.2
60°-70°	44.8	4.1
70°-80°	23.6	2.2
80°-90°	6.2	0.6
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°	463.7	42.5
0°-40°	732.1	67.1
0°-60°	1017.3	93.2
0°-90°	1091.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1091.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	627	
5°	621	59
15°	585	165
25°	523	240
35°	435	268
45°	252	195
55°	96	90
65°	44	45
75°	23	24
85°	5	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	626.7
2.5°	624.5
5°	621.3
7.5°	614.8
10°	606.2
12.5°	596.5
15°	584.6
17.5°	570.6
20°	556.6
22.5°	540.4
25°	523.1
27.5°	502.6
30°	482.1
32.5°	459.5
35°	434.7
37.5°	402.3
40°	361.3
42.5°	309.6
45°	252.4
47.5°	199.5
50°	156.4
52.5°	121.9
55°	96.0
57.5°	76.6
60°	62.6
62.5°	51.8
65°	44.2
67.5°	37.8
70°	32.4
72.5°	27.0
75°	22.7
77.5°	17.3
80°	12.9
82.5°	8.6
85°	5.4
87.5°	2.2
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)