

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: P640434

Luminaire Tested: ML5609LSVWFL75D2W1E - 694WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-90)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFL75D2W1E - 694WB - 900LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1189.9 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

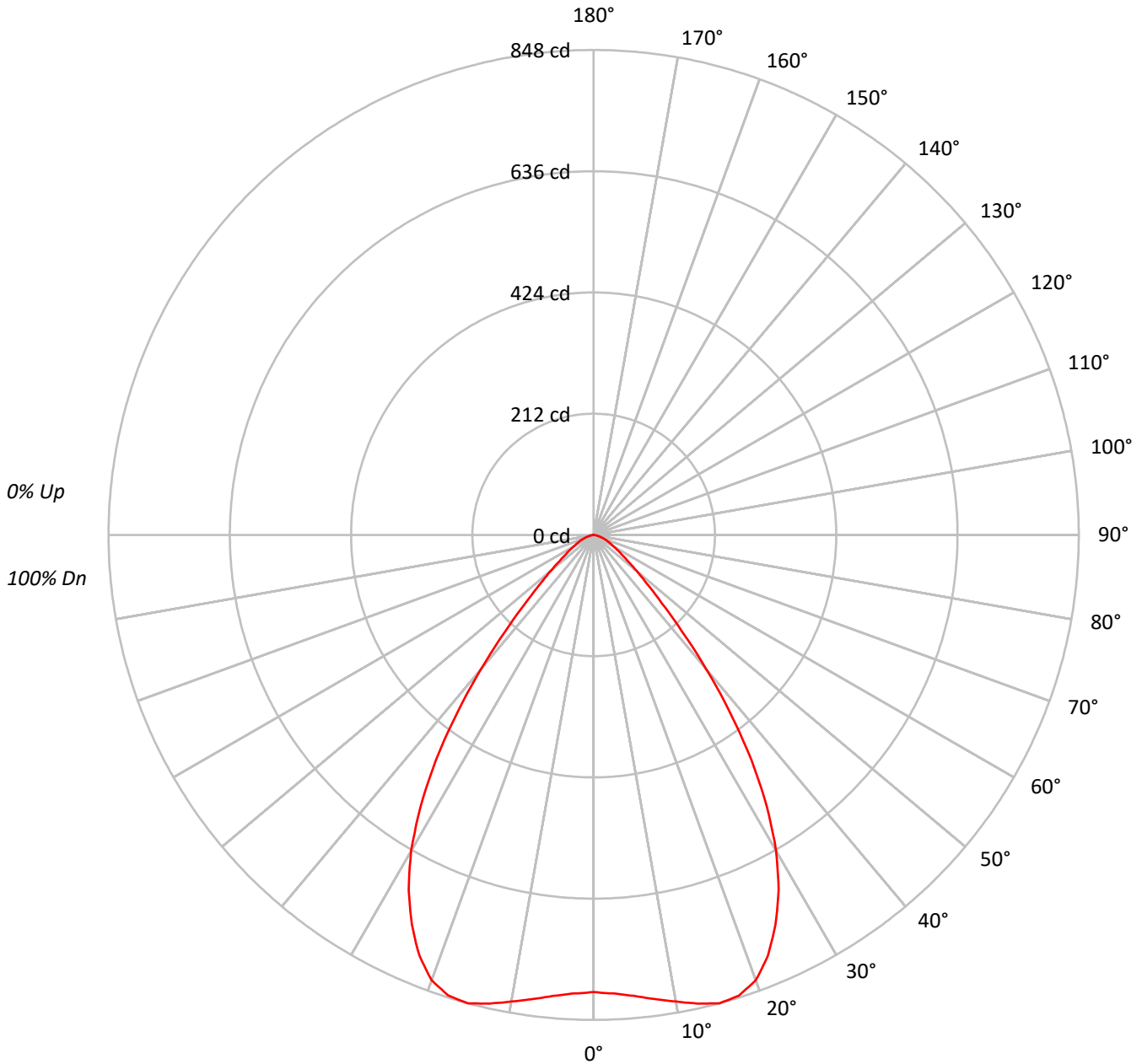
Input Watts (W): 11.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

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

	0°
0°	43823
5°	44524
10°	46119
15°	48122
20°	48333
25°	45486
30°	40373
35°	32157
40°	21898
45°	13032
50°	8358
55°	5763
60°	4484
65°	3632
70°	2933
75°	2288
80°	1357
85°	692

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13032 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.9	6.5
10°-20°	238.2	20.0
20°-30°	342.4	28.8
30°-40°	295.4	24.8
40°-50°	138.1	11.6
50°-60°	56.7	4.8
60°-70°	28.3	2.4
70°-80°	11.5	1.0
80°-90°	1.5	0.1
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°	658.5	55.3
0°-40°	953.9	80.2
0°-60°	1148.6	96.5
0°-90°	1189.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1189.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	799	
5°	809	78
15°	848	238
25°	752	342
35°	480	295
45°	168	138
55°	60	57
65°	28	28
75°	11	11
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	799.4
2.5°	802.6
5°	809.1
7.5°	818.8
10°	828.5
12.5°	839.3
15°	847.9
17.5°	844.6
20°	828.5
22.5°	796.2
25°	752.0
27.5°	700.3
30°	637.8
32.5°	563.5
35°	480.5
37.5°	391.1
40°	306.0
42.5°	228.4
45°	168.1
47.5°	126.1
50°	98.0
52.5°	75.4
55°	60.3
57.5°	49.6
60°	40.9
62.5°	33.4
65°	28.0
67.5°	23.7
70°	18.3
72.5°	14.0
75°	10.8
77.5°	7.5
80°	4.3
82.5°	2.2
85°	1.1
87.5°	0.0
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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(END OF REPORT)