

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: P640433

Luminaire Tested: ML5609LSVWFL75D2W1E - 694WB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640433  
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 - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1108.6 lumens  
Efficiency: N/A  
Efficacy: 93.9 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

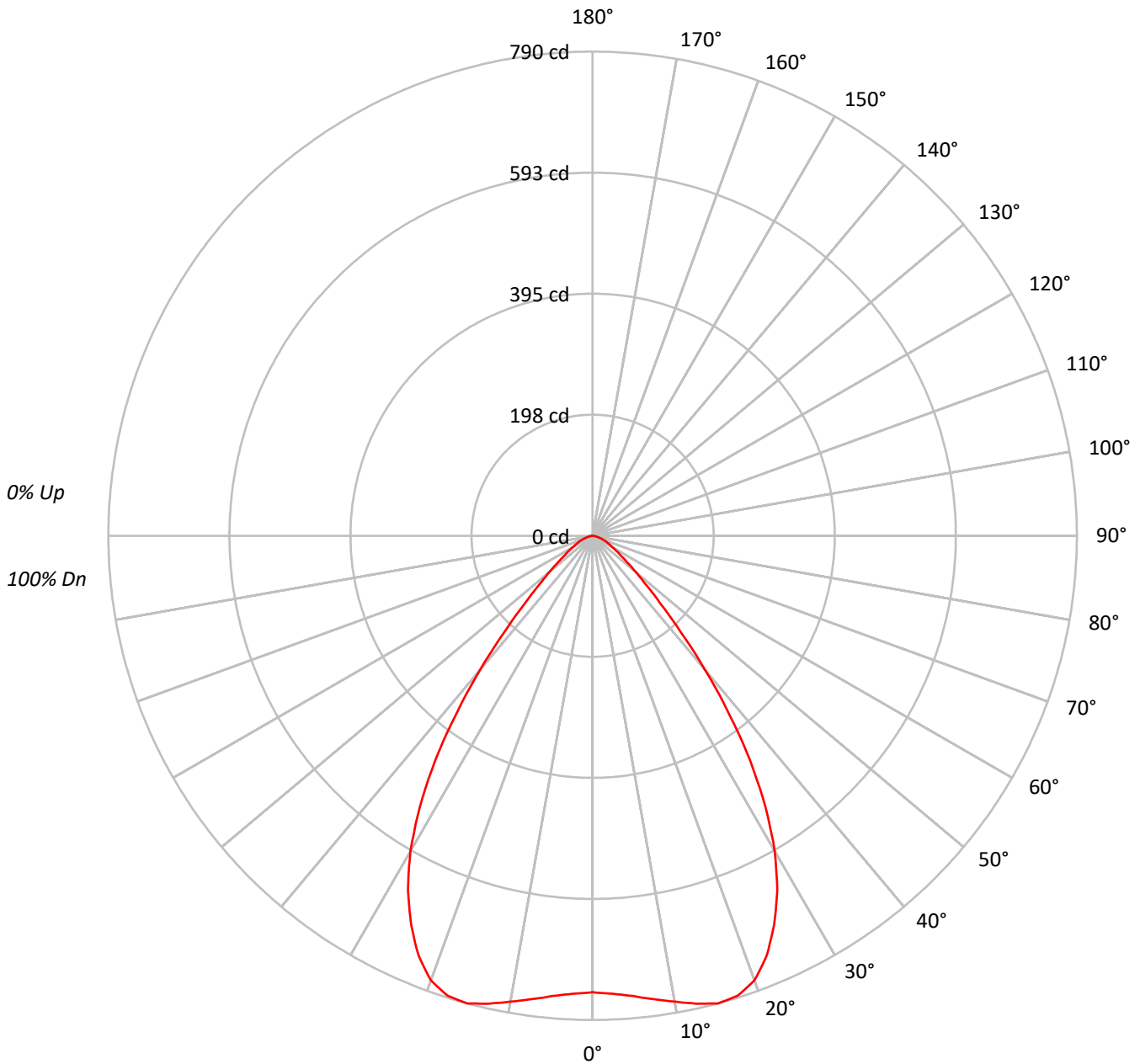
Input Watts (W): 11.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68			68
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62			62
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57			57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			53
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48			48
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			45
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42

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

	0°
0°	40830
5°	41481
10°	42968
15°	44830
20°	45031
25°	42377
30°	37613
35°	29961
40°	20403
45°	12141
50°	7787
55°	5371
60°	4177
65°	3386
70°	2741
75°	2118
80°	1263
85°	629

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12141 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.6	6.5
10°-20°	221.9	20.0
20°-30°	319.0	28.8
30°-40°	275.2	24.8
40°-50°	128.6	11.6
50°-60°	52.8	4.8
60°-70°	26.4	2.4
70°-80°	10.7	1.0
80°-90°	1.4	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°	613.5	55.3
0°-40°	888.7	80.2
0°-60°	1070.2	96.5
0°-90°	1108.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	745	
5°	754	73
15°	790	222
25°	701	319
35°	448	275
45°	157	129
55°	56	53
65°	26	26
75°	10	11
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	744.8
2.5°	747.8
5°	753.8
7.5°	762.8
10°	771.9
12.5°	781.9
15°	789.9
17.5°	786.9
20°	771.9
22.5°	741.8
25°	700.6
27.5°	652.4
30°	594.2
32.5°	525.0
35°	447.7
37.5°	364.4
40°	285.1
42.5°	212.8
45°	156.6
47.5°	117.4
50°	91.3
52.5°	70.3
55°	56.2
57.5°	46.2
60°	38.1
62.5°	31.1
65°	26.1
67.5°	22.1
70°	17.1
72.5°	13.0
75°	10.0
77.5°	7.0
80°	4.0
82.5°	2.0
85°	1.0
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)