

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: P640418

Luminaire Tested: ML5609LSVWFL75D2W1E - 692H - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640418  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5609LSVWFL75D2W1E - 692H - 900LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 6" HAZE TRIM  
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

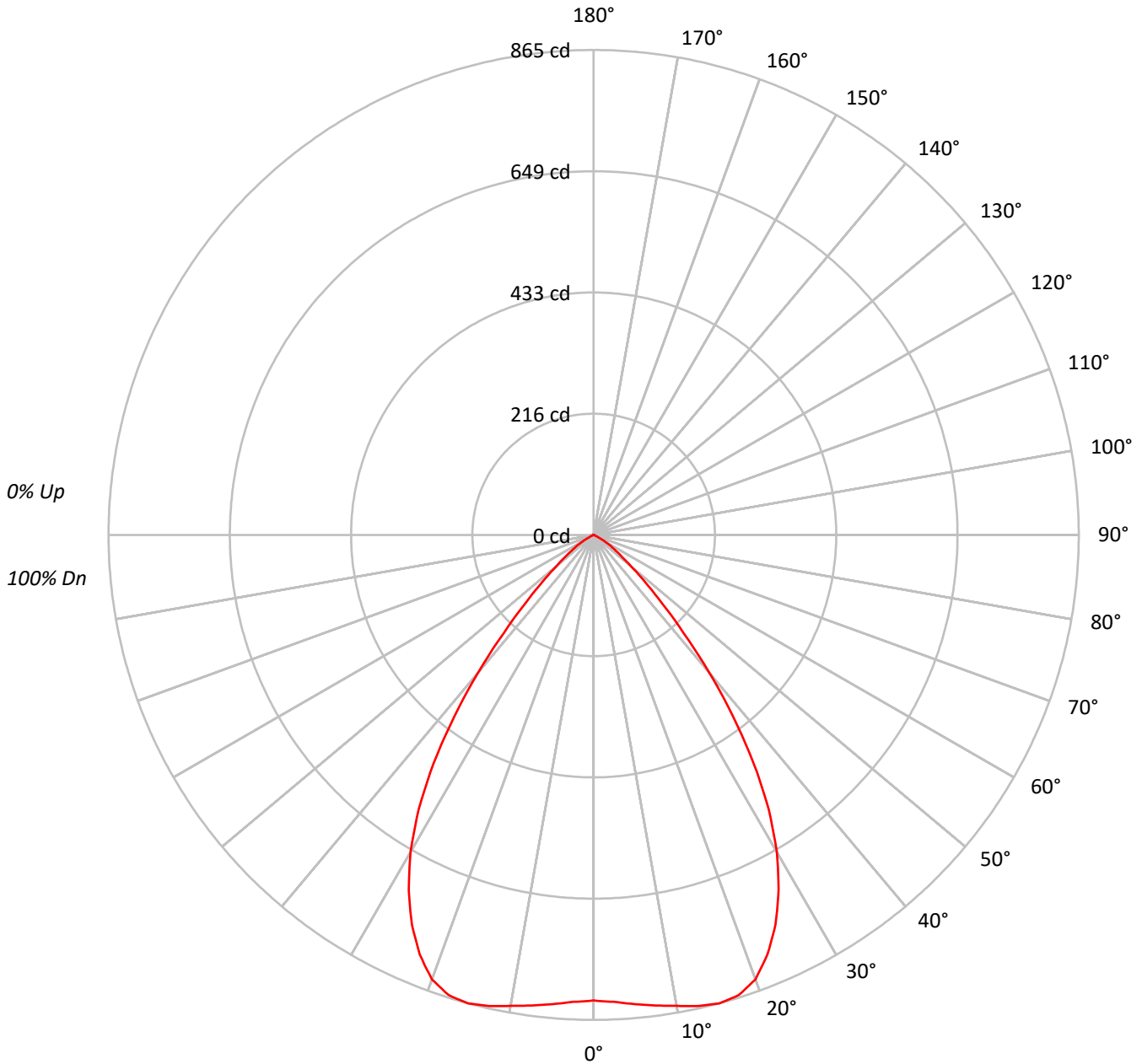
Lumens per Lamp: N/A  
Luminaire Lumens: 1169.5 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.08  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

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									
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			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84																
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77																
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70			70																
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65			65																
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			59																
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55			55																
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50			50																
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47			47																
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43			43																

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

	0°
0°	409702
5°	416071
10°	427395
15°	441777
20°	442822
25°	417488
30°	371847
35°	299707
40°	206035
45°	119524
50°	66164
55°	39826
60°	21215
65°	6304
70°	1587
75°	2097
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 119524 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.6	6.9
10°-20°	243.3	20.8
20°-30°	349.1	29.8
30°-40°	305.7	26.1
40°-50°	139.7	11.9
50°-60°	43.4	3.7
60°-70°	7.0	0.6
70°-80°	0.7	0.1
80°-90°	0.0	0.0
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°	673.0	57.5
0°-40°	978.7	83.7
0°-60°	1161.8	99.3
0°-90°	1169.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	830	
5°	840	81
15°	865	243
25°	767	349
35°	498	306
45°	171	140
55°	46	43
65°	5	7
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	830.4
2.5°	833.7
5°	840.1
7.5°	846.6
10°	853.1
12.5°	860.6
15°	864.9
17.5°	860.6
20°	843.4
22.5°	810.0
25°	766.9
27.5°	714.1
30°	652.7
32.5°	580.6
35°	497.6
37.5°	408.2
40°	319.9
42.5°	237.0
45°	171.3
47.5°	122.8
50°	86.2
52.5°	62.5
55°	46.3
57.5°	33.4
60°	21.5
62.5°	9.7
65°	5.4
67.5°	2.2
70°	1.1
72.5°	1.1
75°	1.1
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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)