

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: P640428

Luminaire Tested: ML5609LSVWFL75D2W1E - 693TBZB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-89)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 693TBZB - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE BAFFLE 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): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

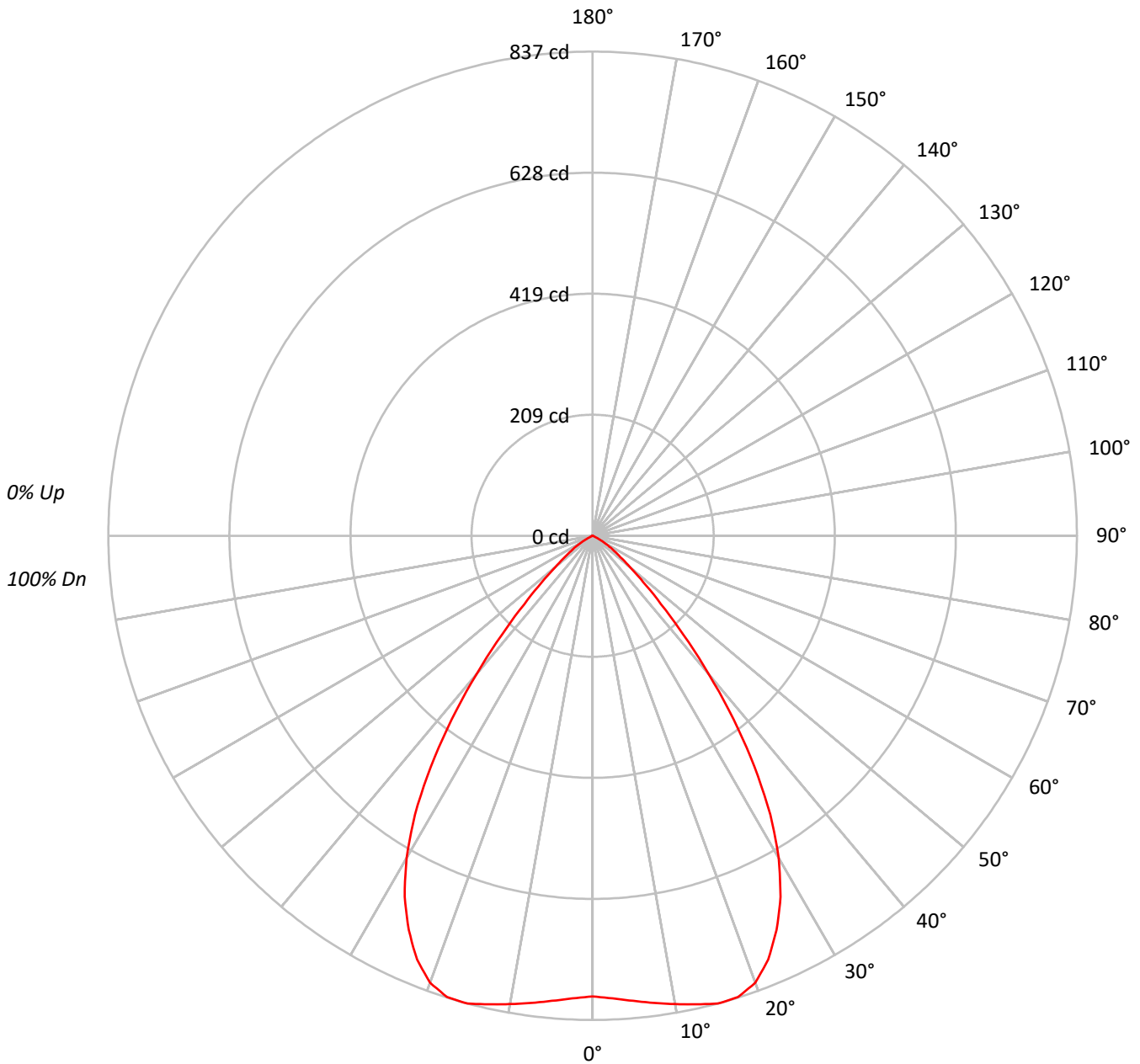
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																										
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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																																				
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84																																				
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77																																				
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70																																				
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65																																				
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																																				
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55																																				
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50																																				
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47																																				
10	67	56	49	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43648
5°	44409
10°	45763
15°	47514
20°	47960
25°	45480
30°	40702
35°	32632
40°	22313
45°	12963
50°	7172
55°	4330
60°	2248
65°	558
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12963 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	6.8
10°-20°	235.7	20.7
20°-30°	342.5	30.0
30°-40°	300.1	26.3
40°-50°	136.2	11.9
50°-60°	42.2	3.7
60°-70°	6.2	0.5
70°-80°	0.0	0.0
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°	655.7	57.5
0°-40°	955.8	83.8
0°-60°	1134.2	99.5
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°	796	
5°	807	78
15°	837	236
25°	752	342
35°	488	300
45°	167	136
55°	45	42
65°	4	6
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	796.2
2.5°	800.5
5°	807.0
7.5°	814.5
10°	822.1
12.5°	829.6
15°	837.2
17.5°	836.1
20°	822.1
22.5°	792.9
25°	751.9
27.5°	703.4
30°	643.0
32.5°	571.8
35°	487.6
37.5°	400.2
40°	311.8
42.5°	231.9
45°	167.2
47.5°	118.7
50°	84.1
52.5°	60.4
55°	45.3
57.5°	32.4
60°	20.5
62.5°	9.7
65°	4.3
67.5°	1.1
70°	0.0
72.5°	0.0
75°	0.0
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)