

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: P640425

Luminaire Tested: ML5609LSVWFL75D2W1E - 693SNB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-88)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 693SNB - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1078.5 lumens
Efficiency: N/A
Efficacy: 91.4 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

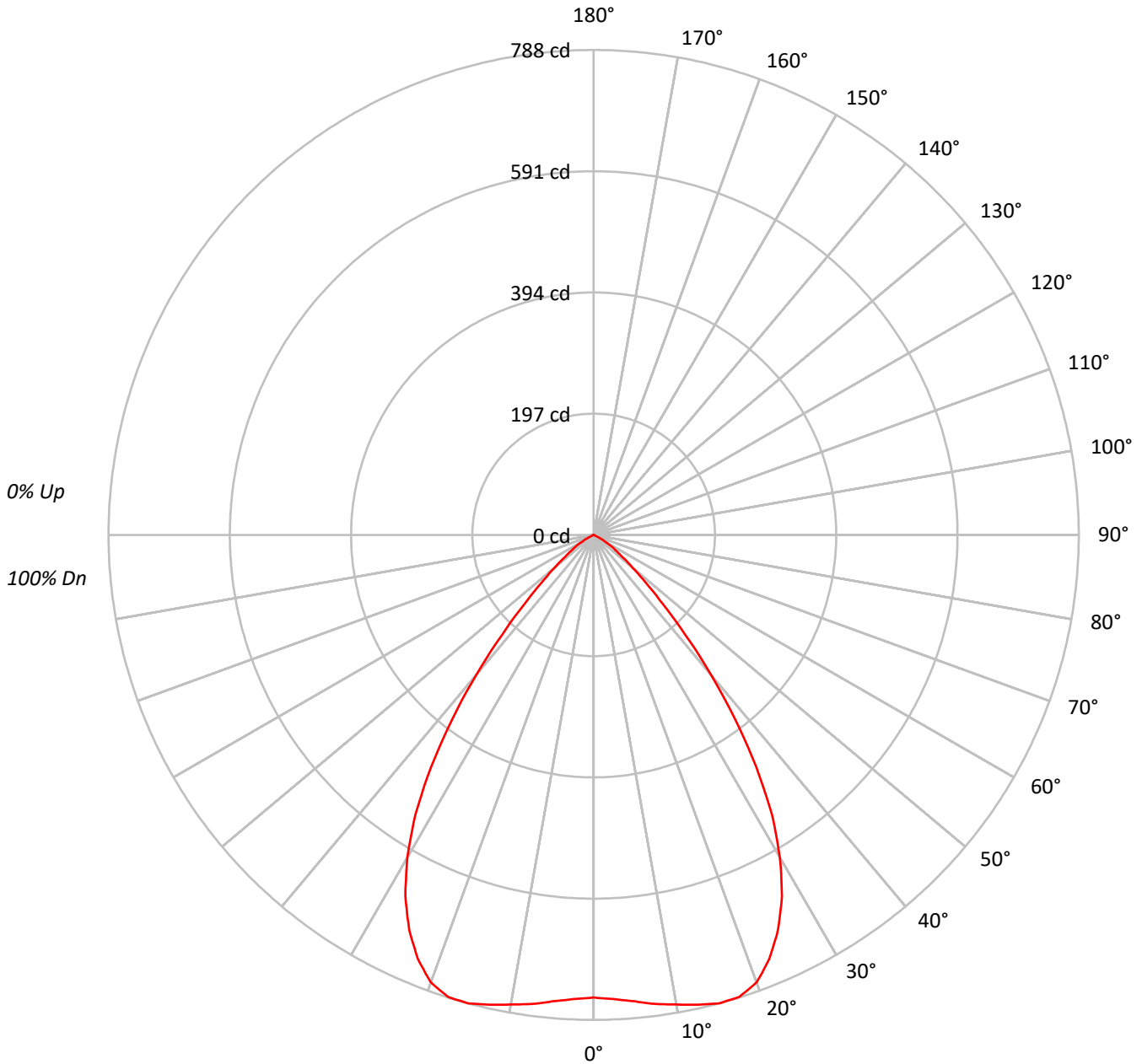
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	92	85	79	75	83	78	74	81	76	73	79	75	72	70																																				
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64																																				
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59																																				
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54																																				
8	74	64	57	53	73	63	57	52	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	51	48	46																																				
10	66	56	49	45	65	55	49	45	54	49	45	54	48	45	53	48	45	43																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41208
5°	41866
10°	43130
15°	44716
20°	45142
25°	42855
30°	38297
35°	30805
40°	21147
45°	12311
50°	7027
55°	4224
60°	2313
65°	649
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12311 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	6.8
10°-20°	221.9	20.6
20°-30°	322.4	29.9
30°-40°	282.9	26.2
40°-50°	130.1	12.1
50°-60°	41.3	3.8
60°-70°	6.6	0.6
70°-80°	0.1	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°	617.4	57.3
0°-40°	900.4	83.5
0°-60°	1071.8	99.4
0°-90°	1078.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	752	
5°	761	73
15°	788	222
25°	708	322
35°	460	283
45°	159	130
55°	44	41
65°	5	7
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	751.7
2.5°	754.7
5°	760.8
7.5°	768.8
10°	774.8
12.5°	781.9
15°	787.9
17.5°	786.9
20°	773.8
22.5°	745.7
25°	708.5
27.5°	662.3
30°	605.0
32.5°	538.7
35°	460.3
37.5°	376.9
40°	295.5
42.5°	221.1
45°	158.8
47.5°	114.6
50°	82.4
52.5°	58.3
55°	44.2
57.5°	32.2
60°	21.1
62.5°	10.0
65°	5.0
67.5°	1.0
70°	1.0
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)