

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: P640432

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 694TBZB - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1183.5 lumens
Efficiency: N/A
Efficacy: 100.3 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

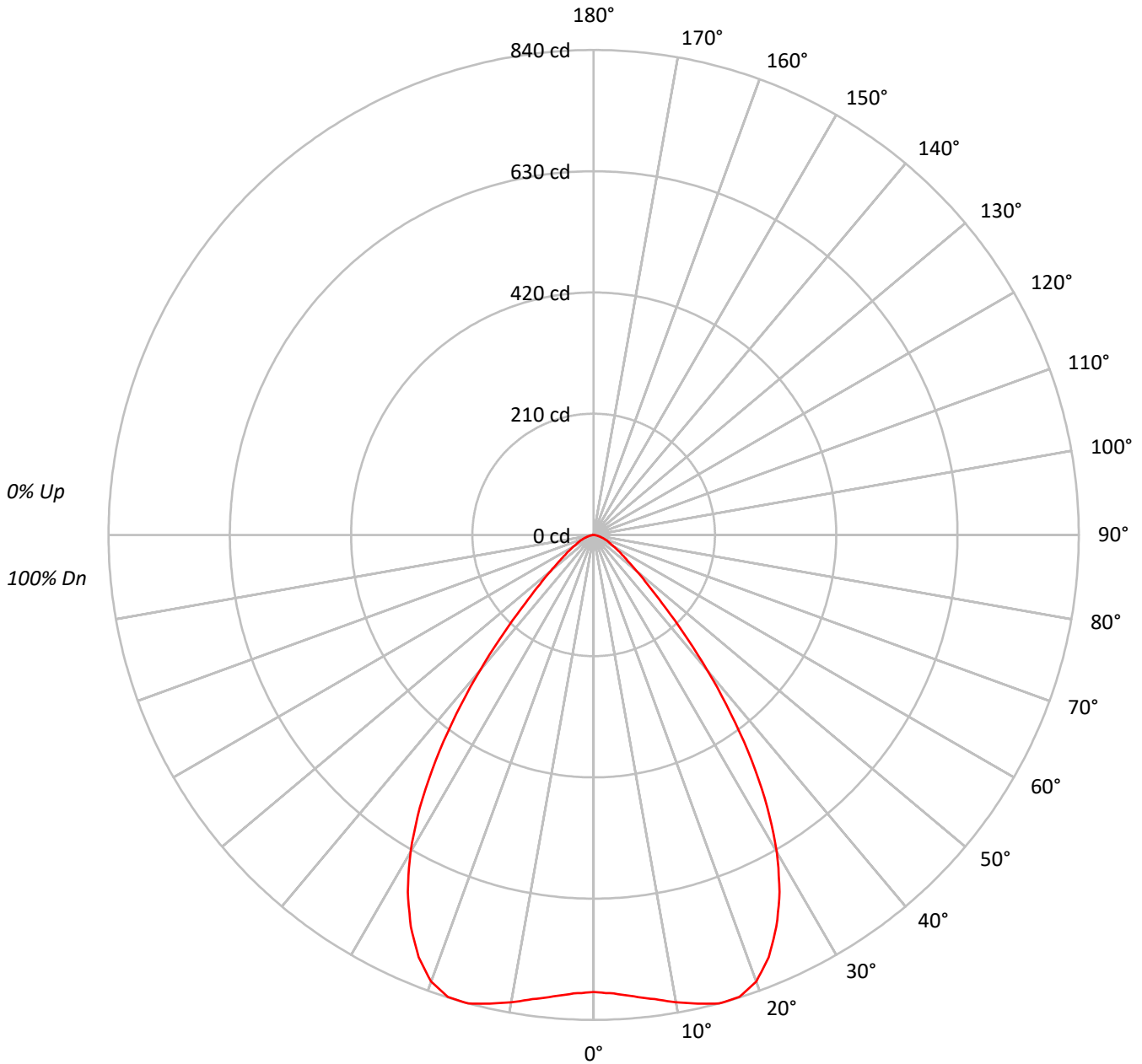
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	52			
8	73	62	55	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	46	55	50	46	45			
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43407
5°	44161
10°	45752
15°	47685
20°	48013
25°	45287
30°	40164
35°	31936
40°	21891
45°	12947
50°	8264
55°	5763
60°	4375
65°	3632
70°	2933
75°	2288
80°	1357
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12947 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	6.5
10°-20°	236.3	20.0
20°-30°	340.7	28.8
30°-40°	293.9	24.8
40°-50°	137.7	11.6
50°-60°	56.4	4.8
60°-70°	28.2	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°	654.2	55.3
0°-40°	948.1	80.1
0°-60°	1142.3	96.5
0°-90°	1183.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1183.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	792	
5°	802	77
15°	840	236
25°	749	341
35°	477	294
45°	167	138
55°	60	56
65°	28	28
75°	11	11
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	791.8
2.5°	795.0
5°	802.5
7.5°	811.1
10°	821.9
12.5°	831.6
15°	840.2
17.5°	839.1
20°	823.0
22.5°	791.8
25°	748.7
27.5°	697.0
30°	634.5
32.5°	560.1
35°	477.2
37.5°	390.0
40°	305.9
42.5°	228.4
45°	167.0
47.5°	126.0
50°	96.9
52.5°	75.4
55°	60.3
57.5°	49.6
60°	39.9
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)