

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: P640409

Luminaire Tested: ML5609LSVWFL75D2W1E - 594TBZB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-80)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5609LSVWFL75D2W1E - 594TBZB - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) D2W SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1099.6 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

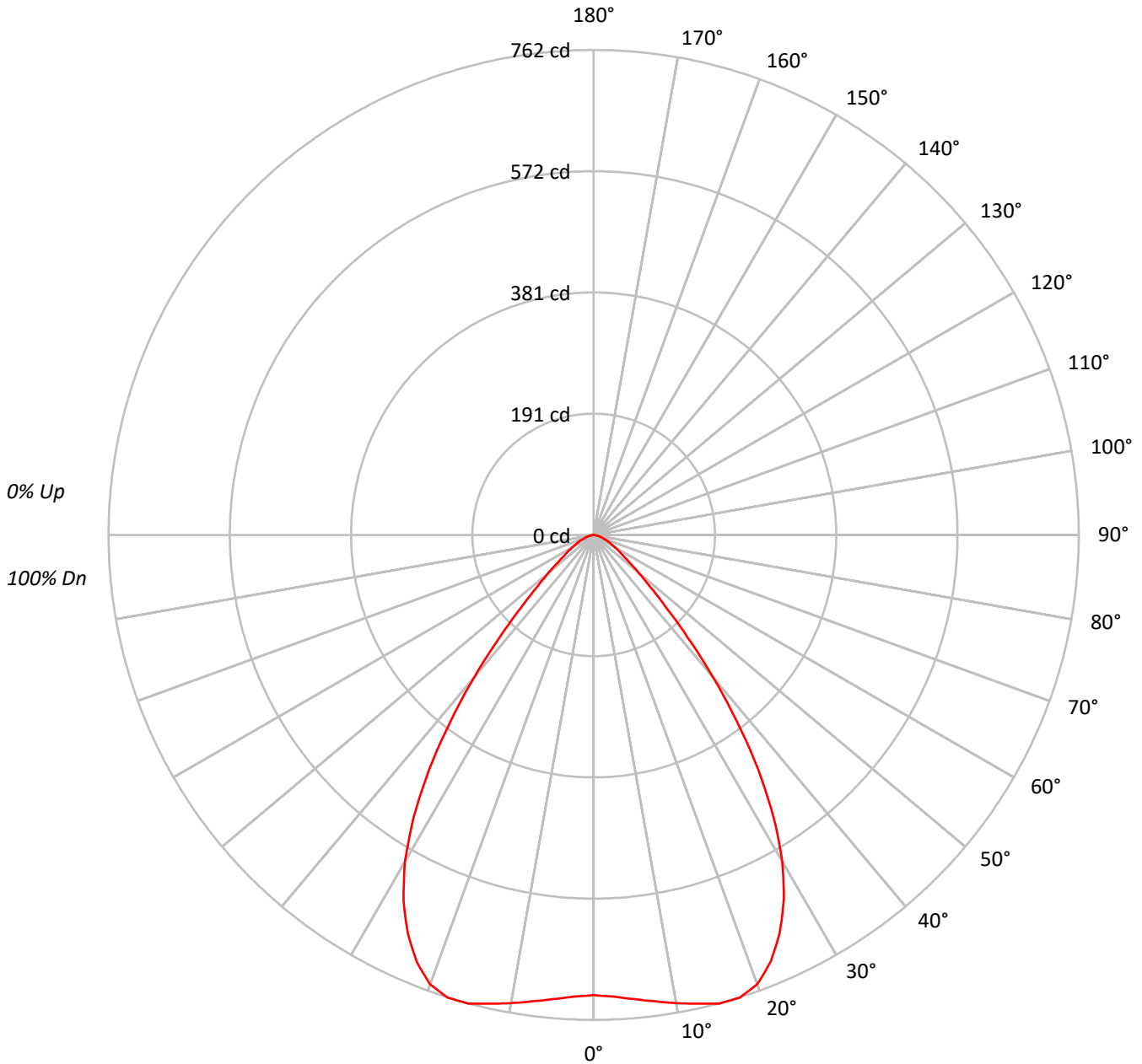
Input Watts (W): 11.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	84	83																			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75																			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68																			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62																			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57																			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52																			
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48																			
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57082
5°	58021
10°	59895
15°	62299
20°	63115
25°	60187
30°	54017
35°	43462
40°	30018
45°	17940
50°	11348
55°	7735
60°	6031
65°	4875
70°	3947
75°	3050
80°	1818
85°	906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17940 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	6.4
10°-20°	214.7	19.5
20°-30°	314.4	28.6
30°-40°	277.2	25.2
40°-50°	131.7	12.0
50°-60°	52.9	4.8
60°-70°	26.2	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°	599.5	54.5
0°-40°	876.7	79.7
0°-60°	1061.3	96.5
0°-90°	1099.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1099.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	723	
5°	732	70
15°	762	215
25°	691	314
35°	451	277
45°	161	132
55°	56	53
65°	26	26
75°	10	11
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	723.1
2.5°	726.2
5°	732.2
7.5°	739.2
10°	747.2
12.5°	754.3
15°	762.3
17.5°	762.3
20°	751.3
22.5°	726.2
25°	691.0
27.5°	646.8
30°	592.6
32.5°	526.3
35°	451.0
37.5°	369.6
40°	291.3
42.5°	219.0
45°	160.7
47.5°	119.5
50°	92.4
52.5°	70.3
55°	56.2
57.5°	46.2
60°	38.2
62.5°	31.1
65°	26.1
67.5°	21.1
70°	17.1
72.5°	13.1
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)