

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: P641409

Luminaire Tested: ML5612LSVWFL7597FS1E - 596WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 596WB - 900LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1358.2 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.1
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

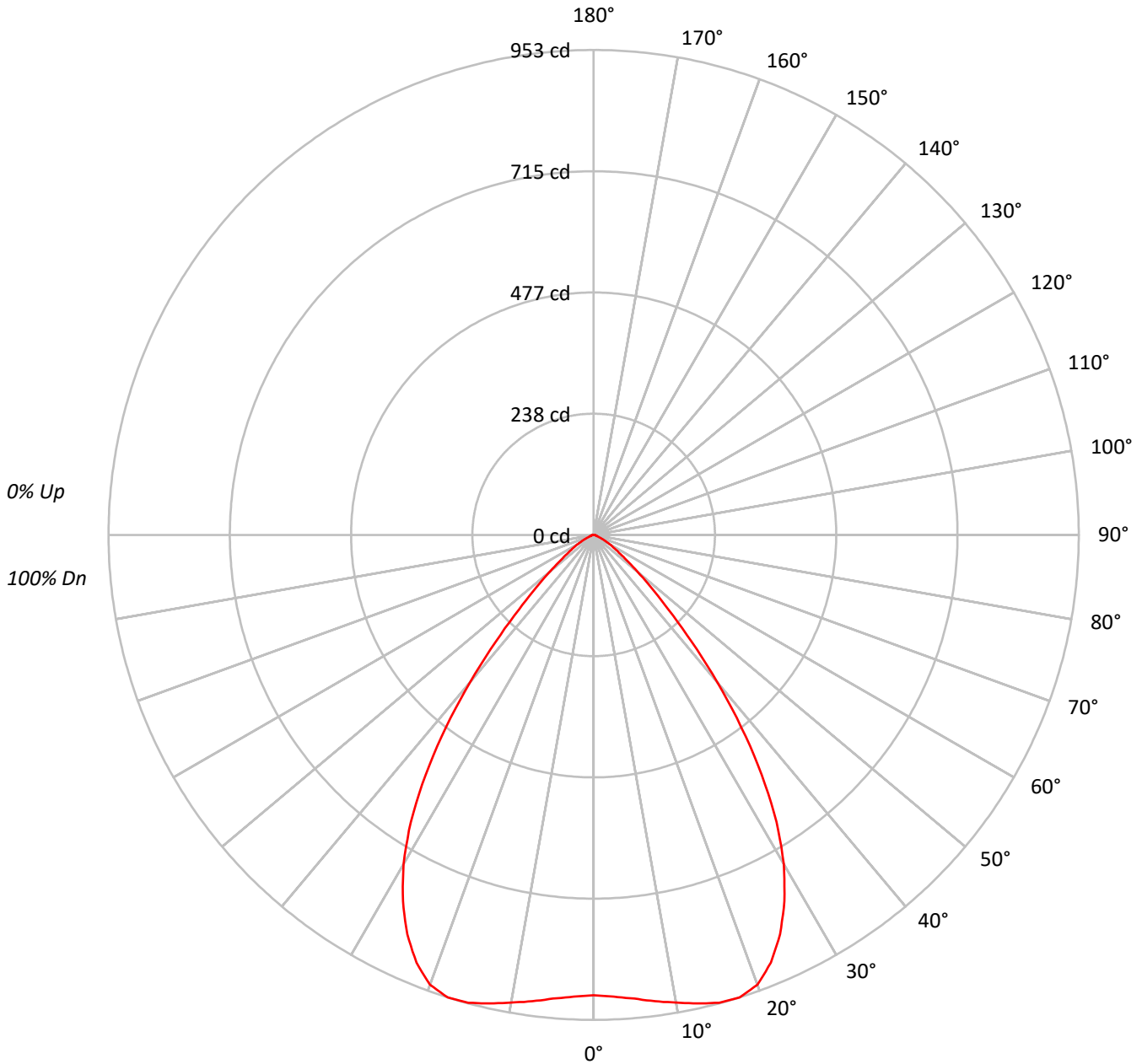
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				100															
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				92															
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83				83															
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76				76															
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69				69															
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63				63															
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58				58															
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53				53															
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49				49															
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45				45															
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42				42															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71410
5°	72467
10°	74796
15°	77778
20°	79017
25°	75439
30°	68091
35°	55489
40°	38870
45°	23132
50°	13718
55°	8368
60°	5684
65°	3250
70°	1708
75°	1525
80°	1682
85°	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23132 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	6.5
10°-20°	268.4	19.8
20°-30°	394.4	29.0
30°-40°	354.0	26.1
40°-50°	169.2	12.5
50°-60°	58.3	4.3
60°-70°	18.8	1.4
70°-80°	5.4	0.4
80°-90°	1.8	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°	750.7	55.3
0°-40°	1104.7	81.3
0°-60°	1332.1	98.1
0°-90°	1358.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1358.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	905	
5°	914	88
15°	952	268
25°	866	394
35°	576	354
45°	207	169
55°	61	58
65°	17	19
75°	5	5
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	904.6
2.5°	908.3
5°	914.5
7.5°	924.4
10°	933.1
12.5°	943.0
15°	951.7
17.5°	953.0
20°	940.6
22.5°	909.5
25°	866.1
27.5°	811.5
30°	747.0
32.5°	668.8
35°	575.8
37.5°	476.5
40°	377.2
42.5°	284.2
45°	207.2
47.5°	152.6
50°	111.7
52.5°	80.7
55°	60.8
57.5°	47.2
60°	36.0
62.5°	26.1
65°	17.4
67.5°	11.2
70°	7.4
72.5°	6.2
75°	5.0
77.5°	3.7
80°	3.7
82.5°	2.5
85°	1.2
87.5°	1.2
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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