

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: P641257

Luminaire Tested: ML5612LSVWFL7597FS1E - 592H - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 592H - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1211.9 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.07
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

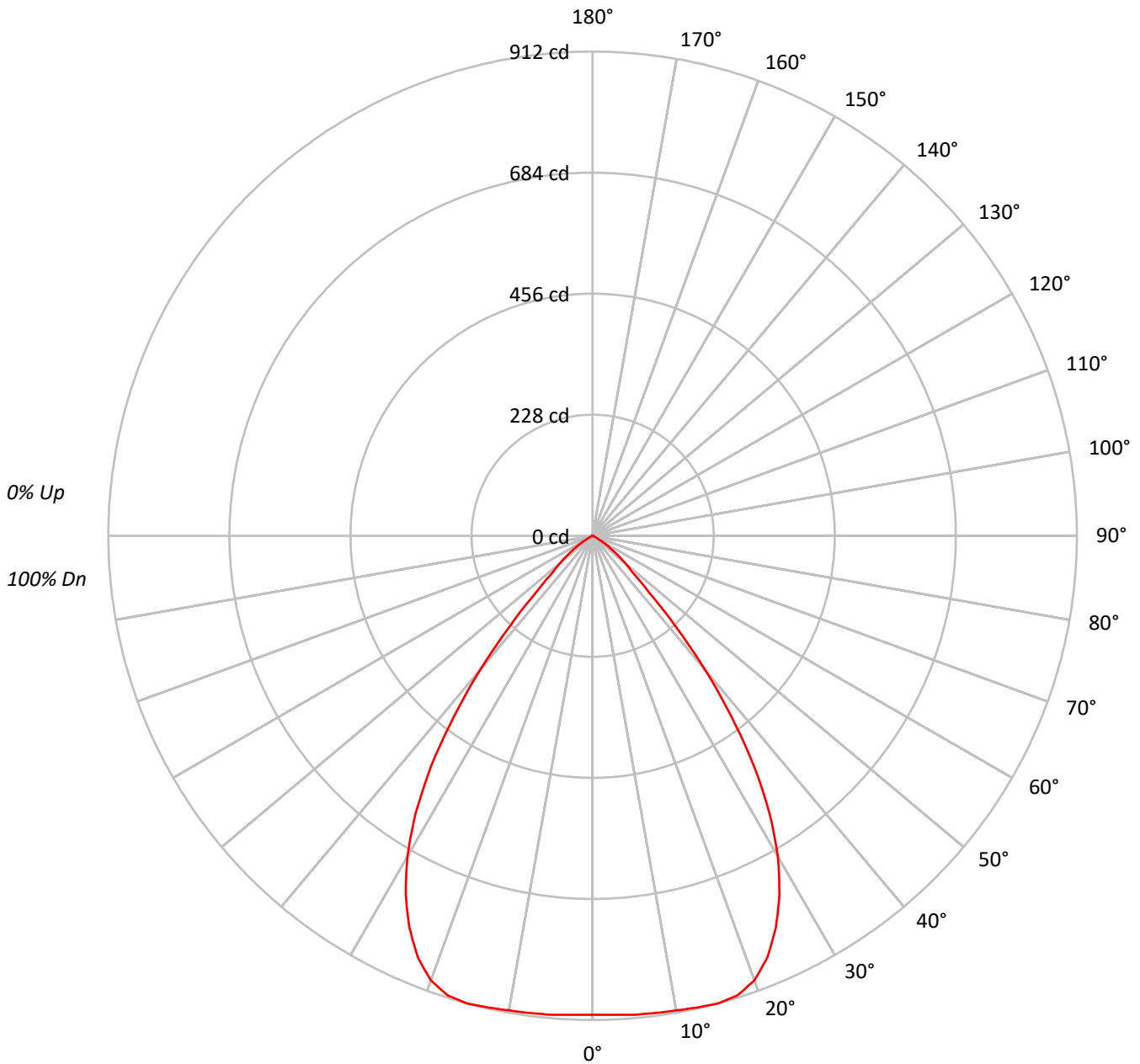
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93																			
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85																			
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																			
4	95	87	81	76	93	85	80	75	83	78	75	81	77	74	79	76	73	71																			
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65																			
6	84	74	68	63	83	74	67	63	72	67	63	71	66	62	69	65	62	60																			
7	79	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55																			
8	75	65	58	54	74	64	58	53	63	57	53	62	57	53	61	56	53	51																			
9	71	60	54	50	70	60	54	50	59	53	49	58	53	49	57	52	49	48																			
10	67	57	50	46	66	56	50	46	55	50	46	55	49	46	54	49	46	44																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71213
5°	71754
10°	72760
15°	74550
20°	74842
25°	71049
30°	63616
35°	51143
40°	33883
45°	16657
50°	9788
55°	5712
60°	1942
65°	411
70°	254
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16657 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	7.1
10°-20°	257.0	21.2
20°-30°	371.3	30.6
30°-40°	324.1	26.7
40°-50°	130.3	10.7
50°-60°	38.2	3.1
60°-70°	4.1	0.3
70°-80°	0.4	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°	714.8	59.0
0°-40°	1039.0	85.7
0°-60°	1207.4	99.6
0°-90°	1211.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1211.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	902	
5°	906	86
15°	912	257
25°	816	371
35°	531	324
45°	149	130
55°	42	38
65°	2	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	902.1
2.5°	903.2
5°	905.5
7.5°	906.6
10°	907.7
12.5°	910.0
15°	912.2
17.5°	907.7
20°	890.9
22.5°	859.5
25°	815.7
27.5°	761.9
30°	697.9
32.5°	620.5
35°	530.7
37.5°	428.6
40°	328.8
42.5°	231.1
45°	149.2
47.5°	102.1
50°	79.7
52.5°	58.3
55°	41.5
57.5°	26.9
60°	12.3
62.5°	6.7
65°	2.2
67.5°	1.1
70°	1.1
72.5°	1.1
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)