

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: P641439

Luminaire Tested: ML5612LSVWFL7597FS1E - 692H - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641439  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 692H - 900LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

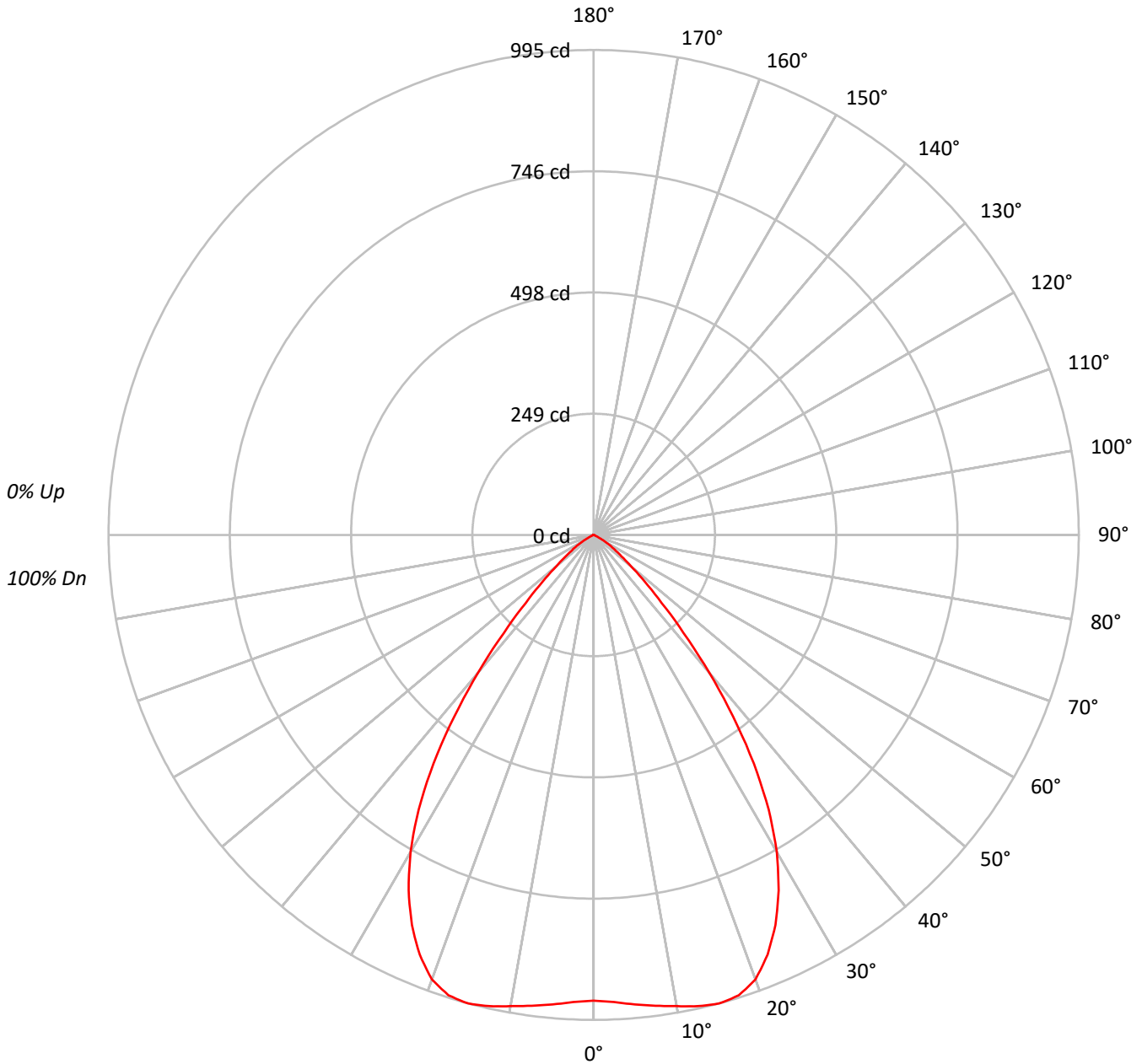
Lumens per Lamp: N/A  
Luminaire Lumens: 1345.7 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.08  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): 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	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	93	85	79	75	83	78	74	81	76	73	79	75	72	70																											
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65																											
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59																											
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55																											
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50																											
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47																											
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43																											

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	471473
5°	478821
10°	491823
15°	508383
20°	509555
25°	480419
30°	427906
35°	344880
40°	237079
45°	137525
50°	76142
55°	45848
60°	24472
65°	7238
70°	1731
75°	2288
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 137525 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.7	6.9
10°-20°	280.0	20.8
20°-30°	401.7	29.9
30°-40°	351.8	26.1
40°-50°	160.7	11.9
50°-60°	50.0	3.7
60°-70°	8.0	0.6
70°-80°	0.8	0.1
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°	774.4	57.5
0°-40°	1126.2	83.7
0°-60°	1336.9	99.3
0°-90°	1345.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1345.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	956	
5°	967	93
15°	995	280
25°	882	402
35°	573	352
45°	197	161
55°	53	50
65°	6	8
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	955.6
2.5°	959.4
5°	966.8
7.5°	974.2
10°	981.7
12.5°	990.4
15°	995.3
17.5°	990.4
20°	970.5
22.5°	932.1
25°	882.5
27.5°	821.8
30°	751.1
32.5°	668.1
35°	572.6
37.5°	469.8
40°	368.1
42.5°	272.7
45°	197.1
47.5°	141.3
50°	99.2
52.5°	71.9
55°	53.3
57.5°	38.4
60°	24.8
62.5°	11.2
65°	6.2
67.5°	2.5
70°	1.2
72.5°	1.2
75°	1.2
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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Scaled Data Report



(END OF REPORT)