

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: P641464

Luminaire Tested: ML5612LSVWFL7597FS1E - 692W - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 692W - 600LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1057.6 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

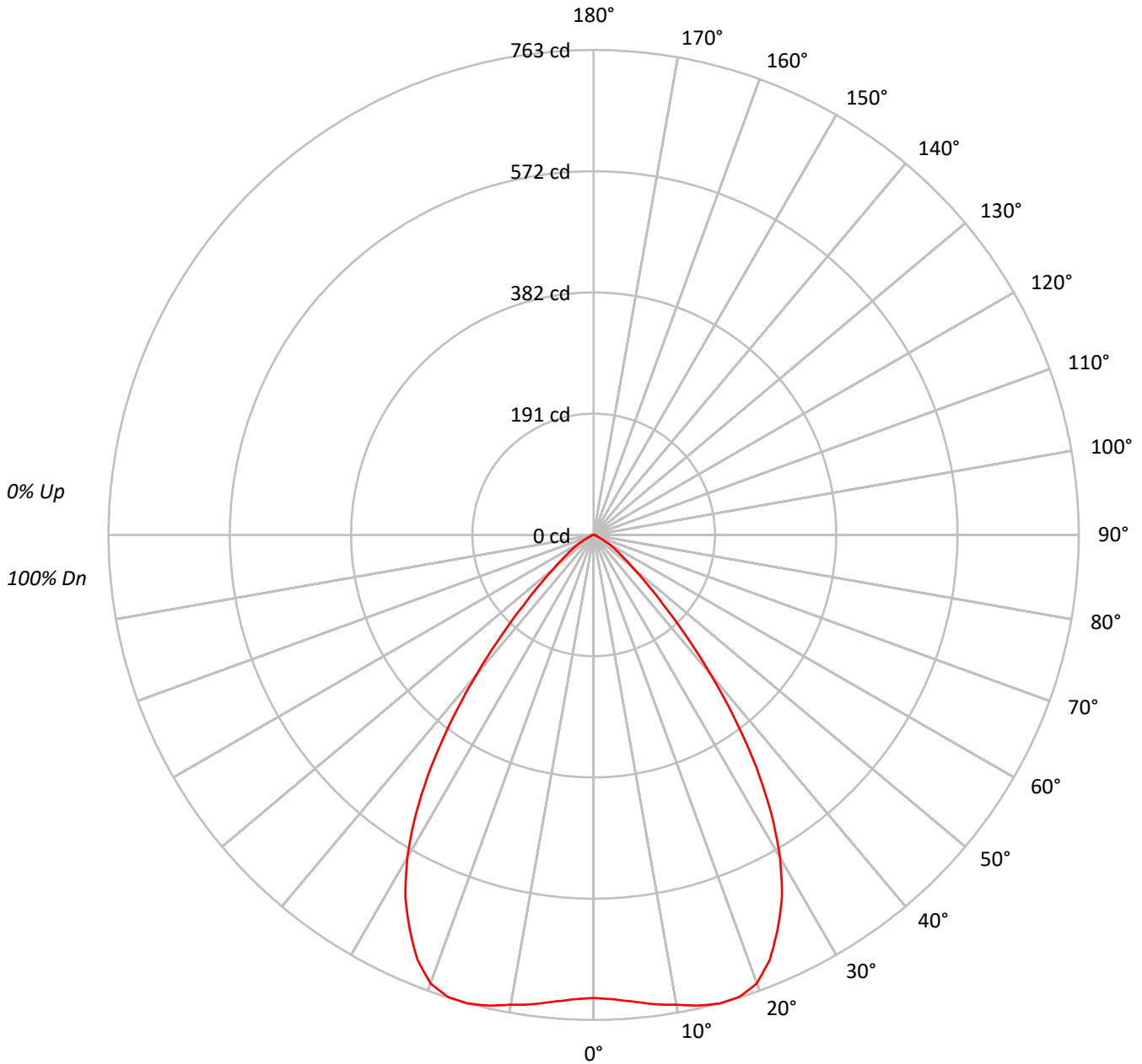
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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			100	
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92	
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84	
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76	
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70	
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64	
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	58			58	
7	78	68	61	56	77	67	61	56	66	60	56	65	60	56	63	59	55	54			54	
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			50	
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			46	
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			43	

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

	0°
0°	39936
5°	40568
10°	41788
15°	43320
20°	43795
25°	41428
30°	37113
35°	29848
40°	20496
45°	12001
50°	6934
55°	4435
60°	2653
65°	1258
70°	769
75°	826
80°	600
85°	629

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12001 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.8	6.7
10°-20°	215.1	20.3
20°-30°	312.3	29.5
30°-40°	273.9	25.9
40°-50°	126.5	12.0
50°-60°	43.0	4.1
60°-70°	10.9	1.0
70°-80°	3.9	0.4
80°-90°	1.0	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°	598.3	56.6
0°-40°	872.1	82.5
0°-60°	1041.7	98.5
0°-90°	1057.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1057.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	728	
5°	737	71
15°	763	215
25°	685	312
35°	446	274
45°	155	127
55°	46	43
65°	10	11
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	728.5
2.5°	731.4
5°	737.2
7.5°	744.9
10°	750.7
12.5°	758.5
15°	763.3
17.5°	762.3
20°	750.7
22.5°	723.6
25°	684.9
27.5°	641.4
30°	586.3
32.5°	520.5
35°	446.0
37.5°	364.7
40°	286.4
42.5°	213.8
45°	154.8
47.5°	112.2
50°	81.3
52.5°	60.0
55°	46.4
57.5°	34.8
60°	24.2
62.5°	14.5
65°	9.7
67.5°	5.8
70°	4.8
72.5°	4.8
75°	3.9
77.5°	2.9
80°	1.9
82.5°	1.9
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)