

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: P641442

Luminaire Tested: ML5612LSVWFL7597FS1E - 692SC - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-83)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 692SC - 1200LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 6" SPECULAR CLEAR TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

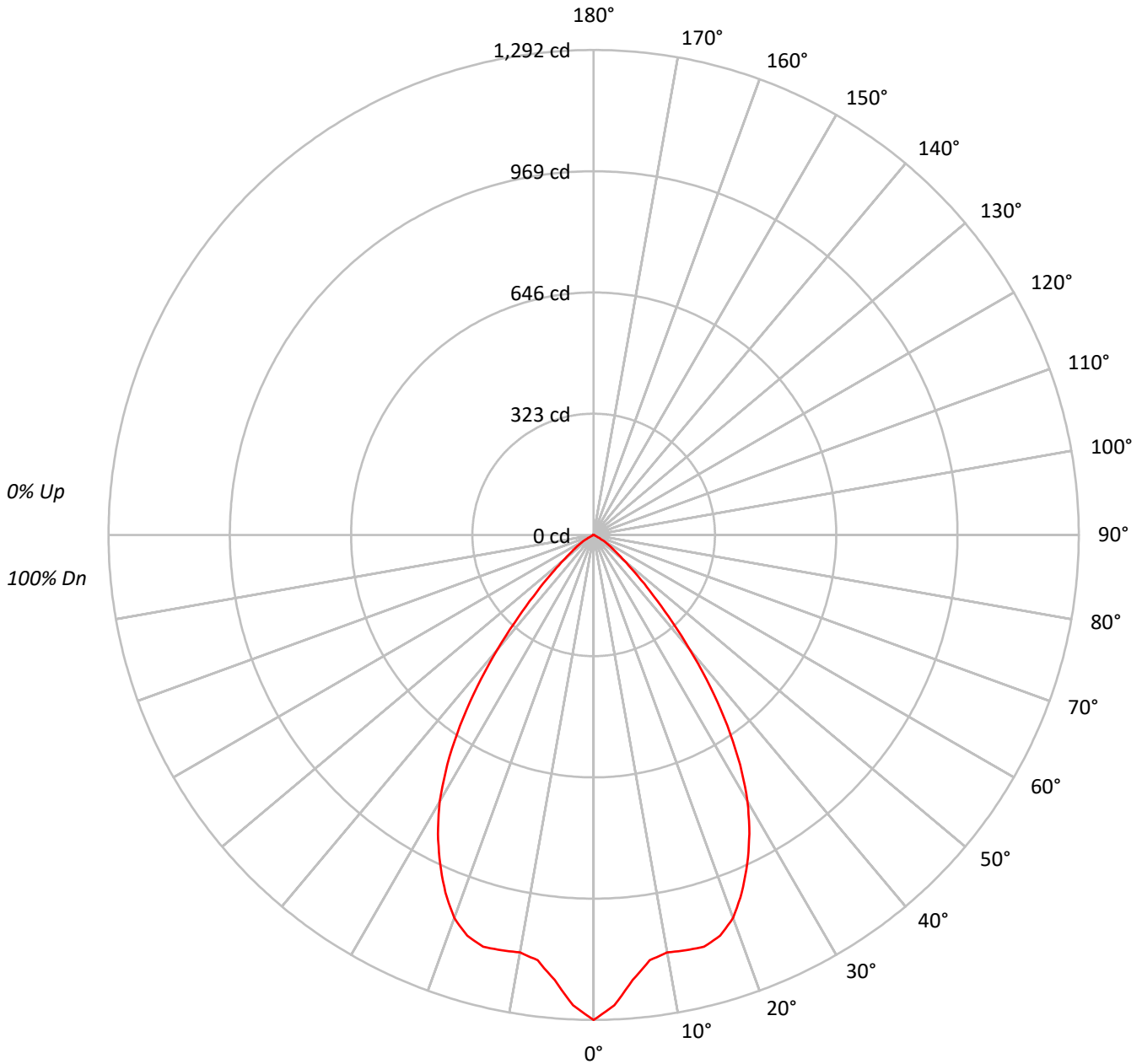
Lumens per Lamp: N/A  
Luminaire Lumens: 1486.2 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.01  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	105	111	108	105	103	104	102	100	100	99	97	97	95	94				92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86				85
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79				78
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73				71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67				65
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61				60
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57				55
8	75	65	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53				51
9	71	60	54	50	70	60	54	49	59	53	49	58	53	49	57	52	49				47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	54	49	46				44

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

	0°
0°	70844
5°	65507
10°	62863
15°	64478
20°	63344
25°	58528
30°	51869
35°	41559
40°	28496
45°	16436
50°	8921
55°	5324
60°	2829
65°	700
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16436 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	7.5
10°-20°	318.1	21.4
20°-30°	441.9	29.7
30°-40°	381.9	25.7
40°-50°	172.7	11.6
50°-60°	52.1	3.5
60°-70°	7.8	0.5
70°-80°	0.0	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°	871.7	58.7
0°-40°	1253.7	84.4
0°-60°	1478.4	99.5
0°-90°	1486.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1486.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1292	
5°	1190	112
15°	1136	318
25°	968	442
35°	621	382
45°	212	173
55°	56	52
65°	5	8
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1292.3
2.5°	1254.3
5°	1190.4
7.5°	1142.9
10°	1129.3
12.5°	1133.3
15°	1136.1
17.5°	1119.8
20°	1085.8
22.5°	1031.4
25°	967.6
27.5°	898.2
30°	819.4
32.5°	725.7
35°	621.0
37.5°	509.6
40°	398.2
42.5°	294.9
45°	212.0
47.5°	149.5
50°	104.6
52.5°	74.7
55°	55.7
57.5°	39.4
60°	25.8
62.5°	12.2
65°	5.4
67.5°	1.4
70°	0.0
72.5°	0.0
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)