

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: P641455

Luminaire Tested: ML5612LSVWFL7597FS1E - 692SC - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641455  
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 - 900LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 6" SPECULAR CLEAR TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1357.4 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

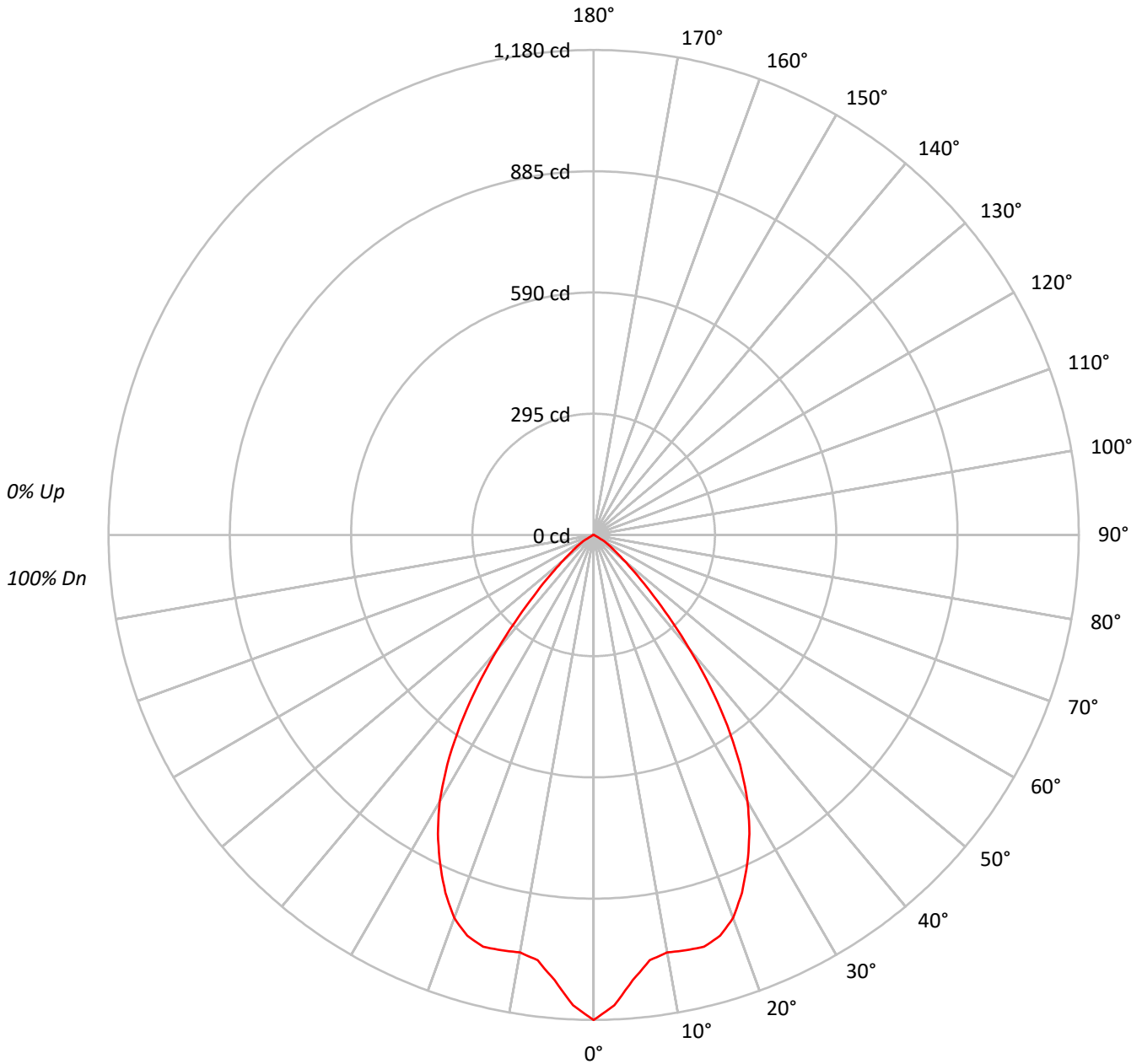
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641455

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692SC - 900LM - 5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641455

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692SC - 900LM - 5000K

**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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78	78	78	78
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73	71	71	71	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	65	65
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61	60	60	60	60
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57	55	55	55	55
8	75	65	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53	51	51	51	51
9	71	60	54	50	70	60	54	49	59	53	49	58	53	49	57	52	49	47	47	47	47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	54	49	46	44	44	44	44

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

	0°
0°	64710
5°	59834
10°	57414
15°	58888
20°	57854
25°	53453
30°	47374
35°	37959
40°	26027
45°	15009
50°	8153
55°	4865
60°	2588
65°	649
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15009 cd/sqm



TEST NUMBER: P641455

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692SC - 900LM - 5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	7.5
10°-20°	290.6	21.4
20°-30°	403.6	29.7
30°-40°	348.8	25.7
40°-50°	157.7	11.6
50°-60°	47.6	3.5
60°-70°	7.1	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°	796.2	58.7
0°-40°	1145.0	84.4
0°-60°	1350.3	99.5
0°-90°	1357.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1357.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1180	
5°	1087	102
15°	1038	291
25°	884	404
35°	567	349
45°	194	158
55°	51	48
65°	5	7
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P641455  
CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692SC - 900LM - 5000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1180.4
2.5°	1145.6
5°	1087.3
7.5°	1043.8
10°	1031.4
12.5°	1035.1
15°	1037.6
17.5°	1022.7
20°	991.7
22.5°	942.1
25°	883.7
27.5°	820.4
30°	748.4
32.5°	662.8
35°	567.2
37.5°	465.4
40°	363.7
42.5°	269.3
45°	193.6
47.5°	136.5
50°	95.6
52.5°	68.3
55°	50.9
57.5°	36.0
60°	23.6
62.5°	11.2
65°	5.0
67.5°	1.2
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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)