

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: P640756

Luminaire Tested: ML5612LSFL4097FS1E - 692SC - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640756  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-37)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSFL4097FS1E - 692SC - 600LM - 2700K  
Description: ML56 RR, 40D TIR OPTIC, 6" SPECULAR CLEAR TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

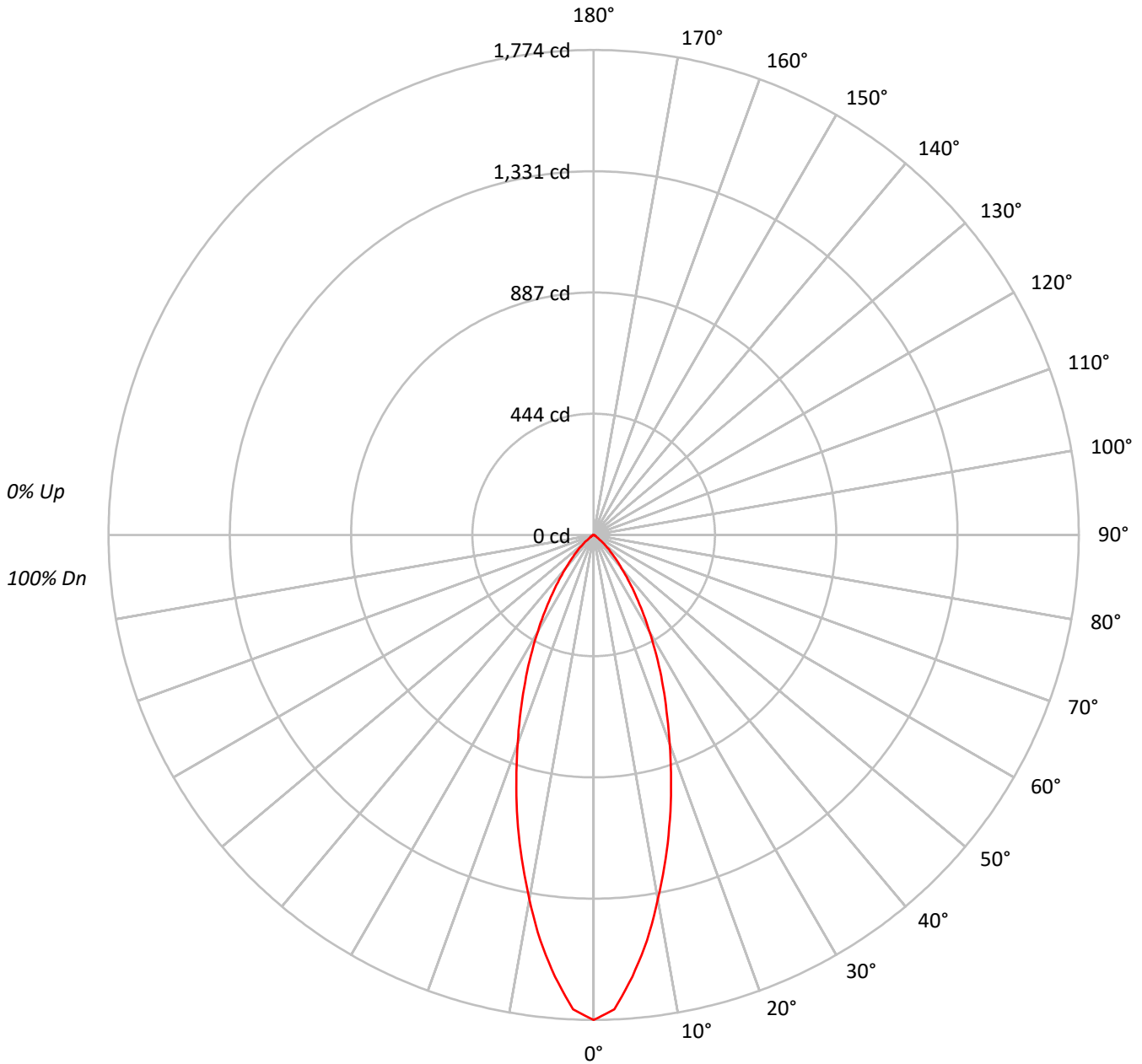
Lumens per Lamp: N/A  
Luminaire Lumens: 973.7 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.66  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94		
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88		
3	103	97	92	88	101	96	91	88	93	89	86	91	88	85	88	86	84	82		
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77		
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72		
6	89	81	75	71	88	80	74	71	78	74	70	77	73	70	76	72	69	68		
7	85	76	70	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64		
8	81	72	66	62	80	72	66	62	70	66	62	69	65	62	69	65	62	60		
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57		
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54		

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

	0°
0°	97267
5°	89263
10°	75333
15°	61113
20°	47342
25°	35863
30°	25846
35°	17648
40°	11321
45°	6923
50°	3625
55°	1386
60°	844
65°	337
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6923 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	15.1
10°-20°	297.8	30.6
20°-30°	271.8	27.9
30°-40°	167.1	17.2
40°-50°	71.7	7.4
50°-60°	15.9	1.6
60°-70°	2.8	0.3
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°	716.2	73.5
0°-40°	883.3	90.7
0°-60°	970.9	99.7
0°-90°	973.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1774	
5°	1622	147
15°	1077	298
25°	593	272
35°	264	167
45°	89	72
55°	14	16
65°	3	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1774.3
2.5°	1736.9
5°	1622.1
7.5°	1496.2
10°	1353.3
12.5°	1213.8
15°	1076.8
17.5°	939.9
20°	811.5
22.5°	696.6
25°	592.9
27.5°	496.7
30°	408.3
32.5°	330.9
35°	263.7
37.5°	205.8
40°	158.2
42.5°	121.6
45°	89.3
47.5°	65.5
50°	42.5
52.5°	21.3
55°	14.5
57.5°	11.1
60°	7.7
62.5°	5.1
65°	2.6
67.5°	0.0
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)