

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: P640752

Luminaire Tested: ML5612LSFL4097FS1E - 692SC - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640752  
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 - 1200LM - 3000K  
Description: ML56 RR, 40D 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: 1555.5 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

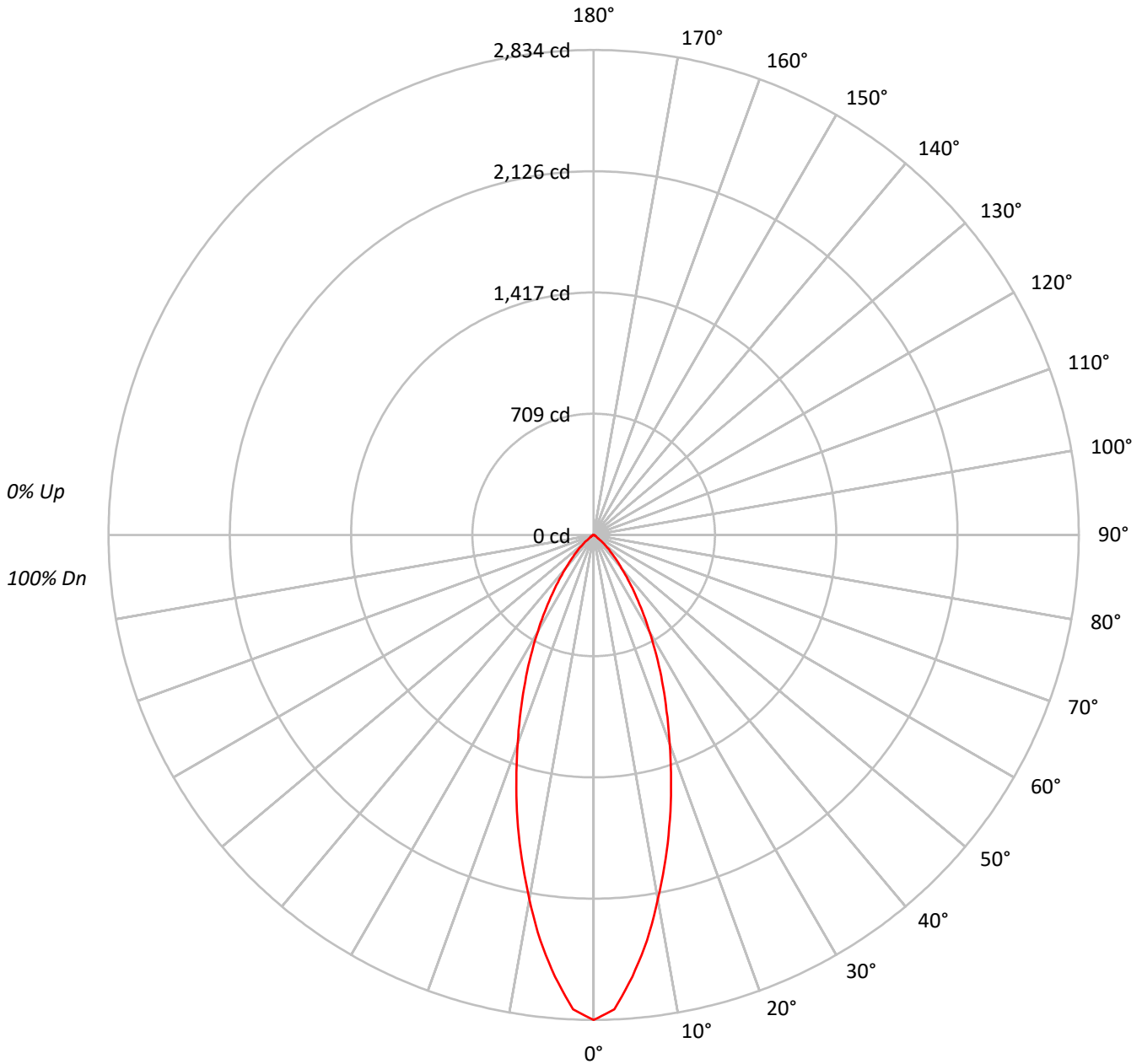
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			
1	114	111	109	107	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	71	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°	155382
5°	142593
10°	120338
15°	97628
20°	75624
25°	57288
30°	41285
35°	28188
40°	18084
45°	11063
50°	5791
55°	2208
60°	1338
65°	532
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11063 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.1	15.1
10°-20°	475.7	30.6
20°-30°	434.2	27.9
30°-40°	267.0	17.2
40°-50°	114.6	7.4
50°-60°	25.4	1.6
60°-70°	4.5	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°	1144.1	73.6
0°-40°	1411.0	90.7
0°-60°	1551.0	99.7
0°-90°	1555.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1555.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2834	
5°	2591	234
15°	1720	476
25°	947	434
35°	421	267
45°	143	115
55°	23	25
65°	4	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2834.4
2.5°	2774.7
5°	2591.2
7.5°	2390.1
10°	2161.8
12.5°	1939.0
15°	1720.2
17.5°	1501.5
20°	1296.3
22.5°	1112.9
25°	947.1
27.5°	793.5
30°	652.2
32.5°	528.6
35°	421.2
37.5°	328.8
40°	252.7
42.5°	194.3
45°	142.7
47.5°	104.6
50°	67.9
52.5°	34.0
55°	23.1
57.5°	17.7
60°	12.2
62.5°	8.2
65°	4.1
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)