

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: P641479

Luminaire Tested: ML5612LSVWFL7597FS1E - 693BB - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-87)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 693BB - 600LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" BLACK BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1016.0 lumens  
Efficiency: N/A  
Efficacy: 98.6 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

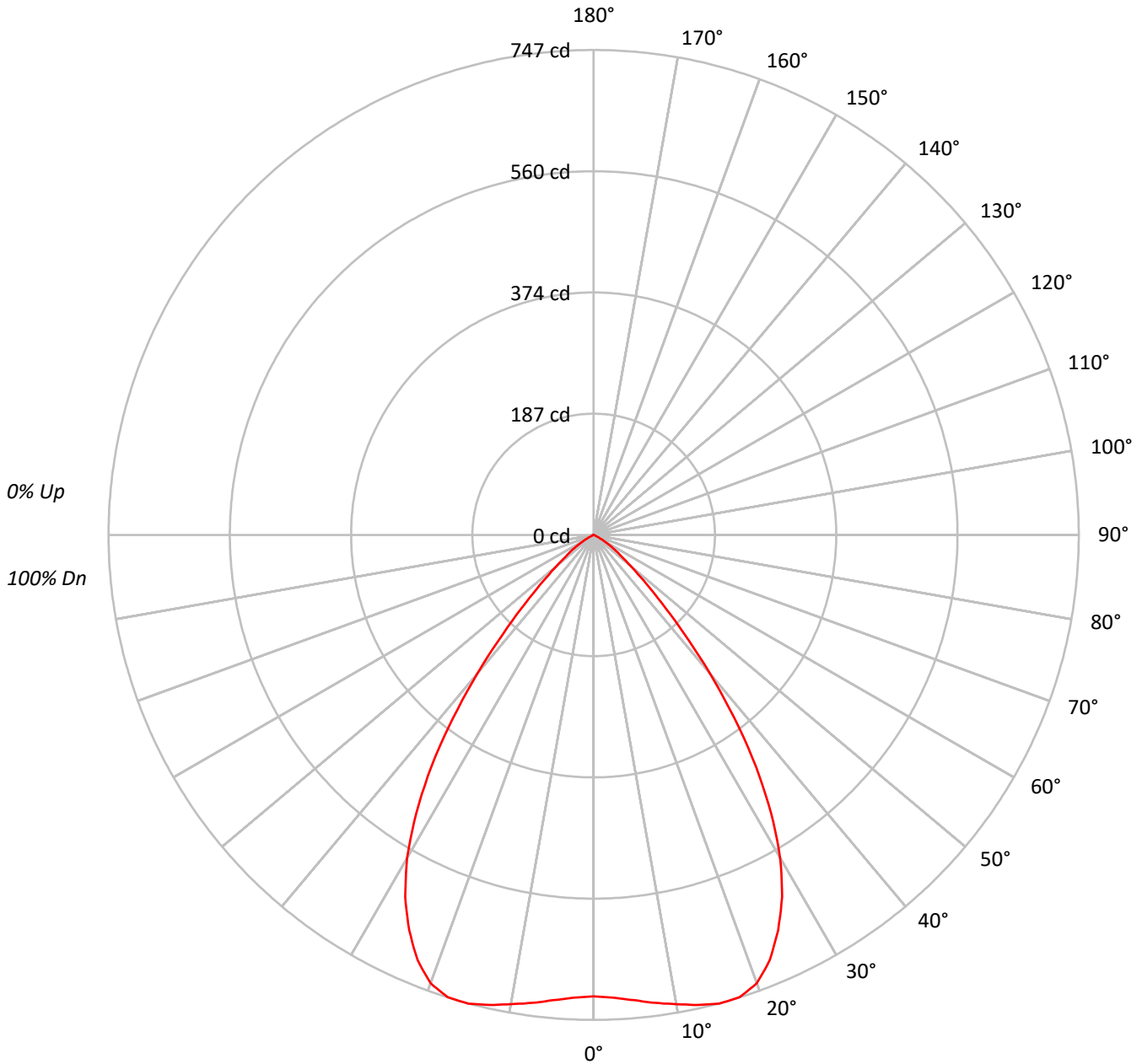
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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	110	108	105	103	104	102	100	100	98	97	97	95	94	92				92															
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84															
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				77															
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71				71															
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65				65															
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59															
7	79	69	62	57	78	68	62	57	67	61	57	65	60	56	64	60	56	55				55															
8	75	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50				50															
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47				47															
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43				43															

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

	0°
0°	38961
5°	39588
10°	40853
15°	42418
20°	42873
25°	40648
30°	36360
35°	29185
40°	19859
45°	11466
50°	6268
55°	3785
60°	1908
65°	506
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11466 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	6.8
10°-20°	210.5	20.7
20°-30°	306.1	30.1
30°-40°	267.5	26.3
40°-50°	120.6	11.9
50°-60°	36.8	3.6
60°-70°	5.4	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°	585.8	57.7
0°-40°	853.2	84.0
0°-60°	1010.6	99.5
0°-90°	1016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1016.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	711	
5°	719	69
15°	747	211
25°	672	306
35°	436	267
45°	148	121
55°	40	37
65°	4	5
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	710.7
2.5°	713.6
5°	719.4
7.5°	727.1
10°	733.9
12.5°	741.6
15°	747.4
17.5°	746.5
20°	734.9
22.5°	708.8
25°	672.0
27.5°	628.5
30°	574.4
32.5°	508.6
35°	436.1
37.5°	355.8
40°	277.5
42.5°	206.0
45°	147.9
47.5°	104.4
50°	73.5
52.5°	53.2
55°	39.6
57.5°	28.0
60°	17.4
62.5°	8.7
65°	3.9
67.5°	1.0
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)