

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: P641222

Luminaire Tested: ML5612LSNFL2597FS1E - 696WB - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641222  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 696WB - 600LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

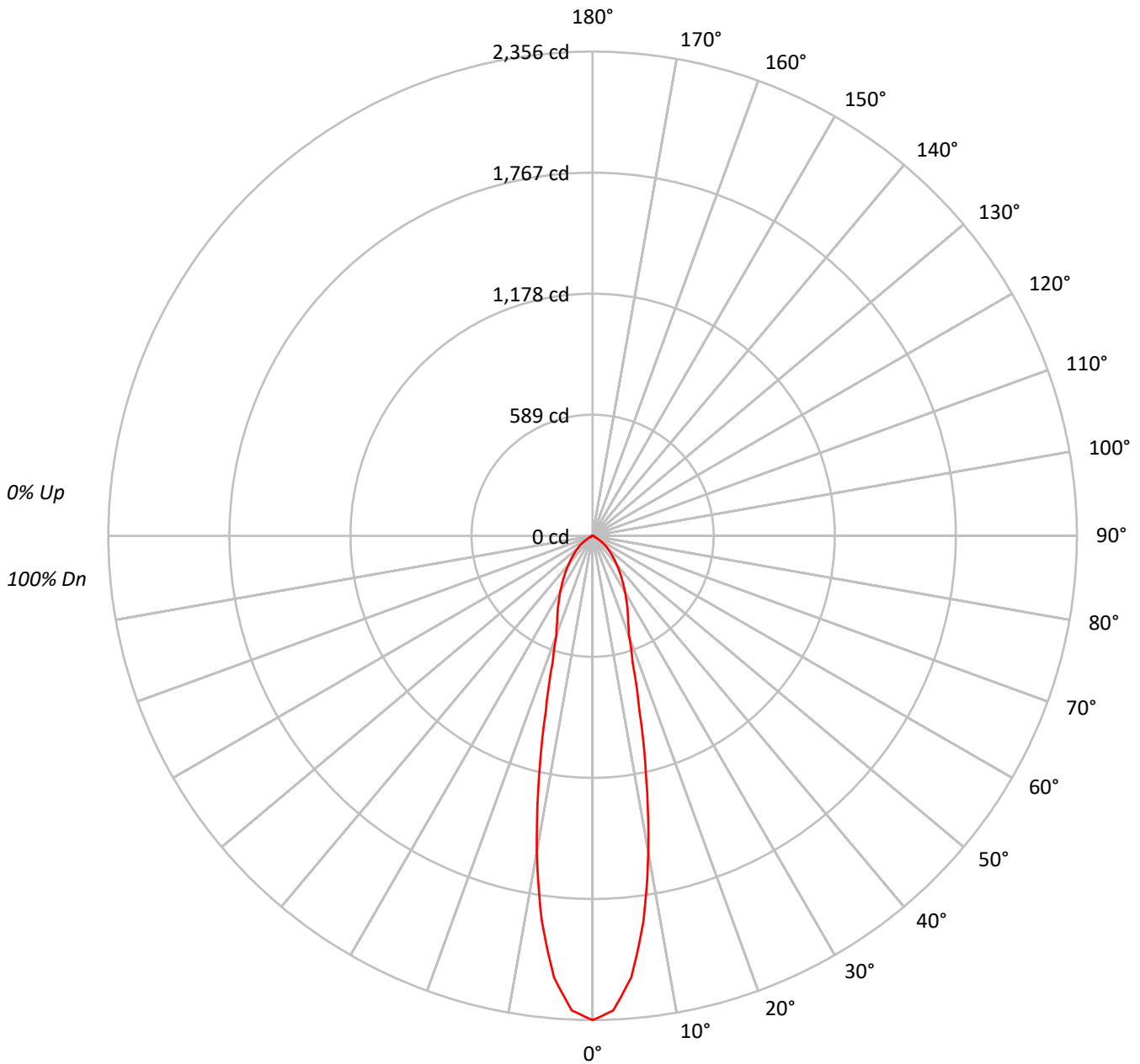
Lumens per Lamp: N/A  
Luminaire Lumens: 950.8 lumens  
Efficiency: N/A  
Efficacy: 92.3 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80			
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74			
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69			
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65			
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			
8	80	70	64	60	78	70	64	60	69	63	60	68	63	60	67	62	59	58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55			
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			

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

	0°
0°	129184
5°	118660
10°	86983
15°	49972
20°	30149
25°	24328
30°	19927
35°	16149
40°	12953
45°	10303
50°	8128
55°	5687
60°	2489
65°	1479
70°	1122
75°	932
80°	821
85°	1069

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10303 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.5	19.6
10°-20°	251.9	26.5
20°-30°	185.5	19.5
30°-40°	151.6	15.9
40°-50°	103.5	10.9
50°-60°	52.8	5.6
60°-70°	12.5	1.3
70°-80°	4.7	0.5
80°-90°	1.8	0.2
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°	623.9	65.6
0°-40°	775.4	81.6
0°-60°	931.8	98.0
0°-90°	950.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	950.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2356	
5°	2156	186
15°	880	252
25°	402	185
35°	241	152
45°	133	104
55°	60	53
65°	11	13
75°	4	5
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2356.5
2.5°	2311.9
5°	2156.3
7.5°	1892.2
10°	1562.6
12.5°	1205.8
15°	880.5
17.5°	647.9
20°	516.8
22.5°	451.2
25°	402.2
27.5°	356.8
30°	314.8
32.5°	276.3
35°	241.3
37.5°	209.9
40°	181.0
42.5°	155.6
45°	132.9
47.5°	112.8
50°	95.3
52.5°	79.6
55°	59.5
57.5°	40.2
60°	22.7
62.5°	14.9
65°	11.4
67.5°	9.6
70°	7.0
72.5°	5.2
75°	4.4
77.5°	3.5
80°	2.6
82.5°	2.6
85°	1.7
87.5°	0.9
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)