

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: P641221

Luminaire Tested: ML5612LSNFL2597FS1E - 696WB - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641221  
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 - 2700K  
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

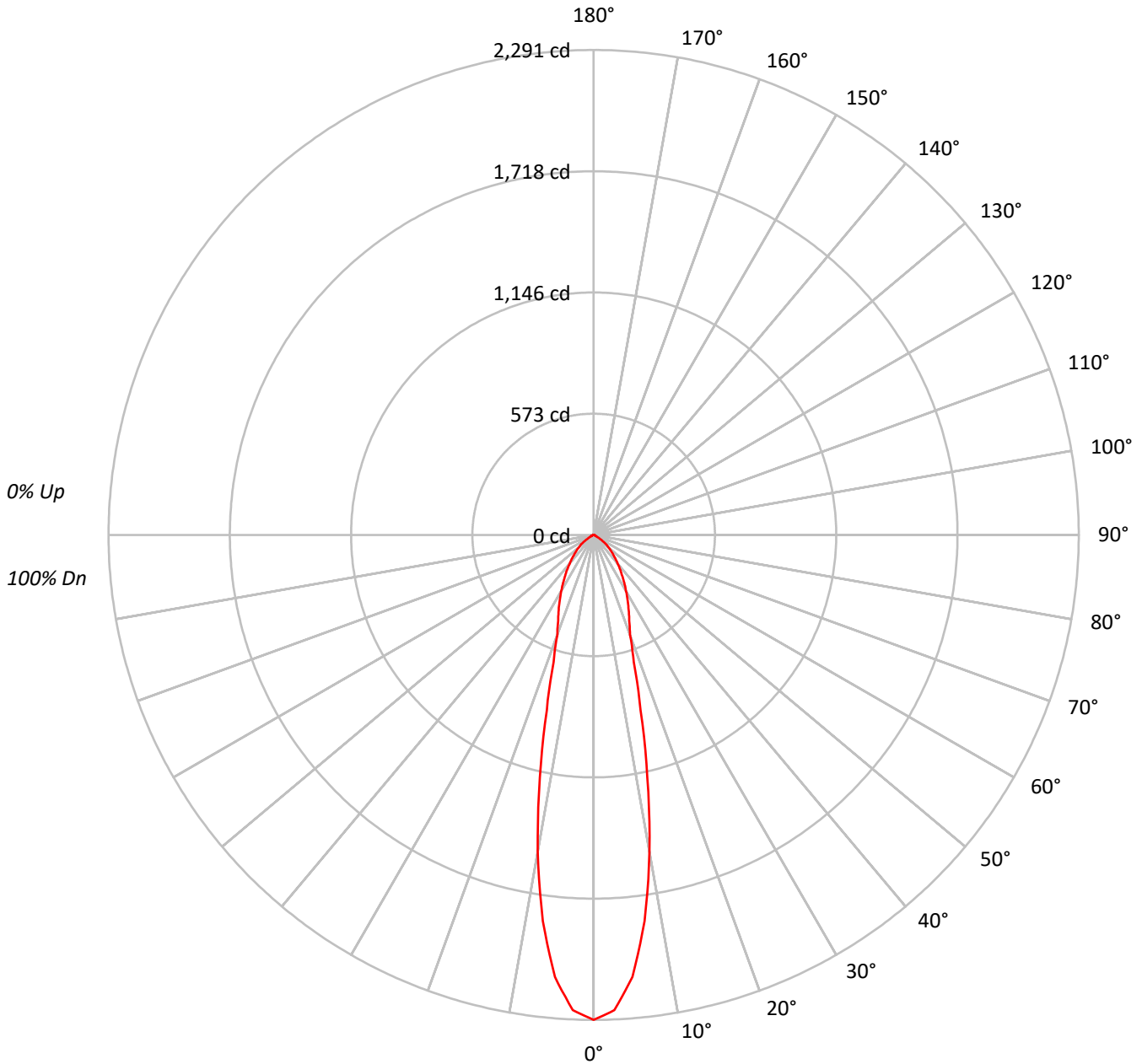
Lumens per Lamp: N/A  
Luminaire Lumens: 924.5 lumens  
Efficiency: N/A  
Efficacy: 89.8 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	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	105	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°	125598
5°	115364
10°	84568
15°	48587
20°	29309
25°	23657
30°	19370
35°	15700
40°	12595
45°	10017
50°	7906
55°	5524
60°	2423
65°	1440
70°	1090
75°	911
80°	821
85°	1069

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10017 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.3	19.6
10°-20°	244.9	26.5
20°-30°	180.3	19.5
30°-40°	147.3	15.9
40°-50°	100.7	10.9
50°-60°	51.3	5.6
60°-70°	12.2	1.3
70°-80°	4.6	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°	606.6	65.6
0°-40°	753.9	81.5
0°-60°	905.9	98.0
0°-90°	924.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	924.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2291	
5°	2096	181
15°	856	245
25°	391	180
35°	235	147
45°	129	101
55°	58	51
65°	11	12
75°	4	5
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2291.1
2.5°	2247.7
5°	2096.4
7.5°	1839.6
10°	1519.2
12.5°	1172.3
15°	856.1
17.5°	629.9
20°	502.4
22.5°	438.7
25°	391.1
27.5°	346.8
30°	306.0
32.5°	268.6
35°	234.6
37.5°	204.0
40°	176.0
42.5°	151.3
45°	129.2
47.5°	109.7
50°	92.7
52.5°	77.4
55°	57.8
57.5°	39.1
60°	22.1
62.5°	14.5
65°	11.1
67.5°	9.4
70°	6.8
72.5°	5.1
75°	4.3
77.5°	3.4
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)