

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: P641037

Luminaire Tested: ML5612LSNFL2597FS1E - 594WB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641037  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 594WB - 1200LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1495.7 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

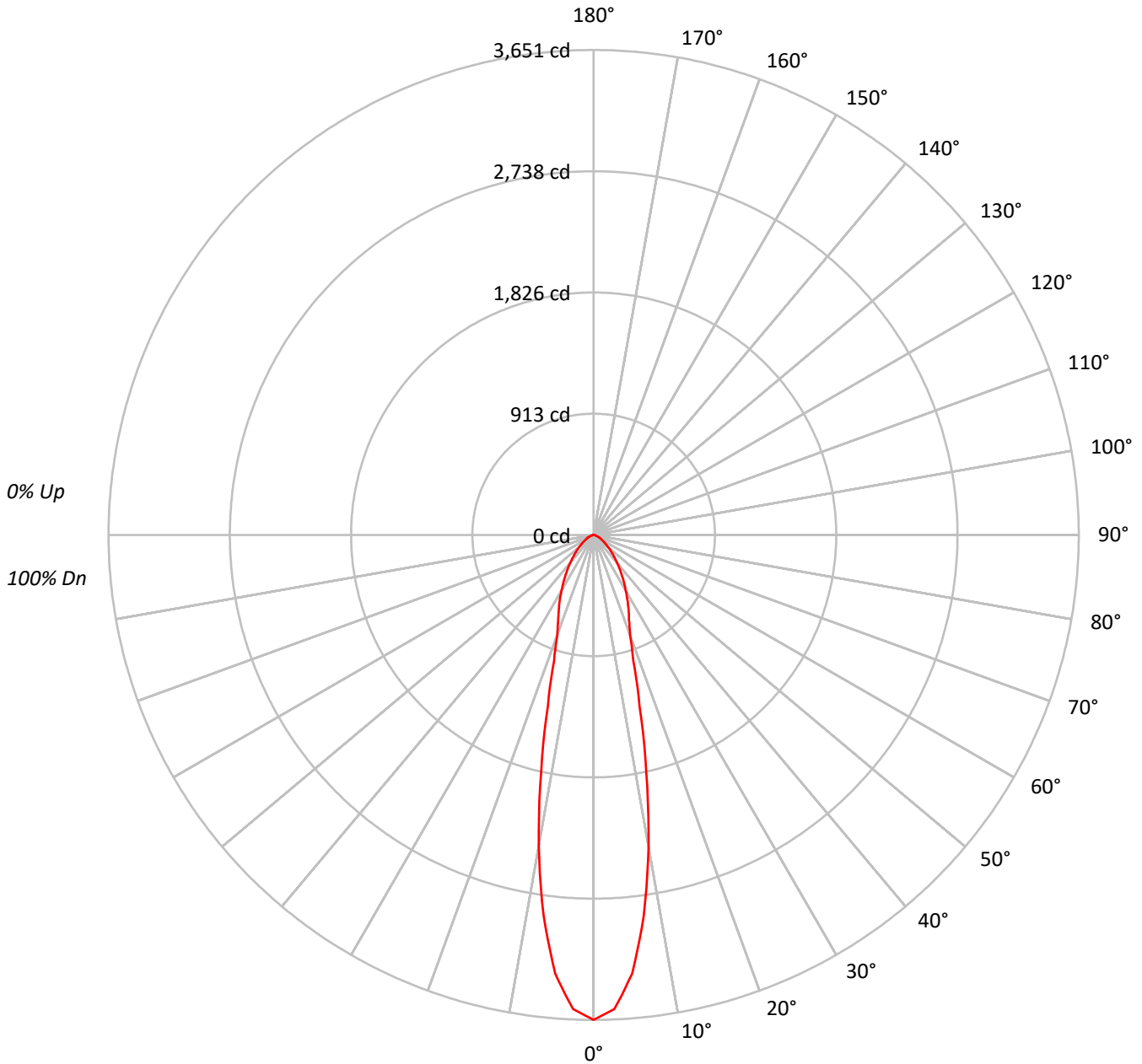
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	111	108	105	103	104	102	100	100	98	97	97	95	94	92					92			
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78					78			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73					73			
5	91	82	76	71	89	81	75	71	79	74	71	78	73	70	76	72	69	68					68			
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63					63			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60					60			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56					56			
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54					54			
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51					51			

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

	0°
0°	288213
5°	262720
10°	190601
15°	108826
20°	67231
25°	54090
30°	44091
35°	35483
40°	28287
45°	22294
50°	17353
55°	13653
60°	10941
65°	8891
70°	6278
75°	3325
80°	2455
85°	1268

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22294 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.8	19.1
10°-20°	383.3	25.6
20°-30°	286.2	19.1
30°-40°	231.5	15.5
40°-50°	155.6	10.4
50°-60°	90.4	6.0
60°-70°	47.5	3.2
70°-80°	13.6	0.9
80°-90°	1.8	0.1
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°	955.3	63.9
0°-40°	1186.8	79.3
0°-60°	1432.8	95.8
0°-90°	1495.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1495.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3651	
5°	3315	286
15°	1332	383
25°	621	286
35°	368	232
45°	200	156
55°	99	90
65°	48	47
75°	11	14
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3651.0
2.5°	3572.2
5°	3315.4
7.5°	2891.5
10°	2377.8
12.5°	1826.2
15°	1331.6
17.5°	990.5
20°	800.3
22.5°	695.7
25°	621.0
27.5°	550.3
30°	483.7
32.5°	423.9
35°	368.2
37.5°	319.3
40°	274.5
42.5°	235.1
45°	199.7
47.5°	168.5
50°	141.3
52.5°	118.2
55°	99.2
57.5°	82.9
60°	69.3
62.5°	57.1
65°	47.6
67.5°	39.4
70°	27.2
72.5°	17.7
75°	10.9
77.5°	6.8
80°	5.4
82.5°	2.7
85°	1.4
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)