

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: P640994

Luminaire Tested: ML5612LSNFL2597FS1E - 593WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 593WB - 1200LM - 4000K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1567.5 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

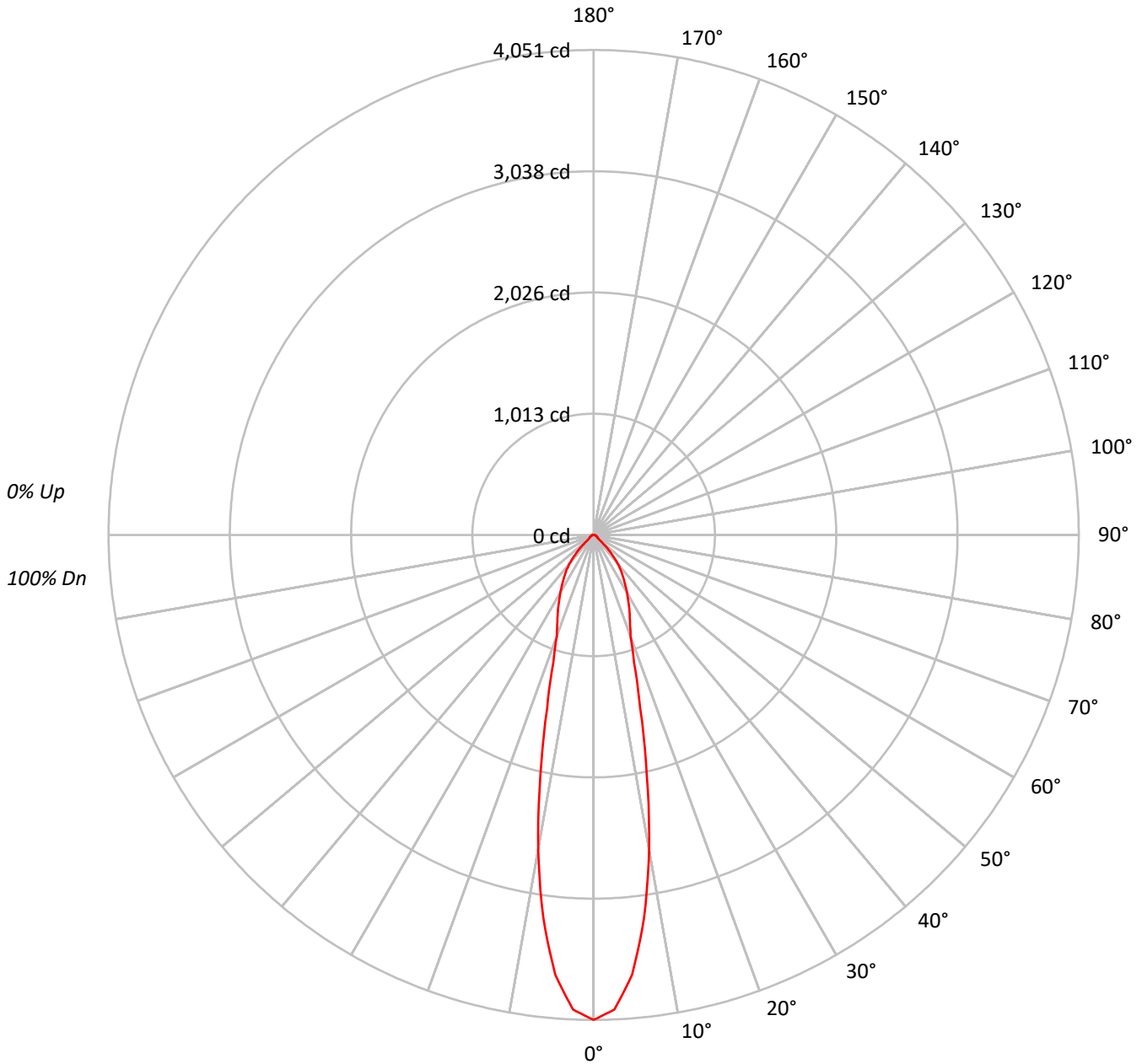
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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																			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	80	77	75																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63																			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60																			
9	78	68	63	59	77	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	60	56	74	65	60	56	64	59	56	63	59	56	63	58	56	54																			

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

	0°
0°	319758
5°	292167
10°	214008
15°	122785
20°	75732
25°	61633
30°	50672
35°	41265
40°	32512
45°	19961
50°	7381
55°	5588
60°	5226
65°	4763
70°	4847
75°	5033
80°	4773
85°	5434

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19961 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.7	20.3
10°-20°	431.7	27.5
20°-30°	325.8	20.8
30°-40°	268.2	17.1
40°-50°	136.6	8.7
50°-60°	38.2	2.4
60°-70°	26.0	1.7
70°-80°	16.8	1.1
80°-90°	5.5	0.4
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°	1076.1	68.7
0°-40°	1344.3	85.8
0°-60°	1519.2	96.9
0°-90°	1567.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1567.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4051	
5°	3687	319
15°	1502	432
25°	708	326
35°	428	268
45°	179	137
55°	41	38
65°	26	26
75°	16	17
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4050.6
2.5°	3967.9
5°	3687.0
7.5°	3225.7
10°	2669.8
12.5°	2052.3
15°	1502.4
17.5°	1119.3
20°	901.5
22.5°	790.3
25°	707.6
27.5°	628.0
30°	555.9
32.5°	488.3
35°	428.2
37.5°	374.1
40°	315.5
42.5°	243.4
45°	178.8
47.5°	109.7
50°	60.1
52.5°	46.6
55°	40.6
57.5°	37.6
60°	33.1
62.5°	30.0
65°	25.5
67.5°	22.5
70°	21.0
72.5°	18.0
75°	16.5
77.5°	13.5
80°	10.5
82.5°	7.5
85°	6.0
87.5°	1.5
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)