

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P641150

Luminaire Tested: ML5612LSNFL2597FS1E - 693SNB - 600LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641150  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 693SNB - 600LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

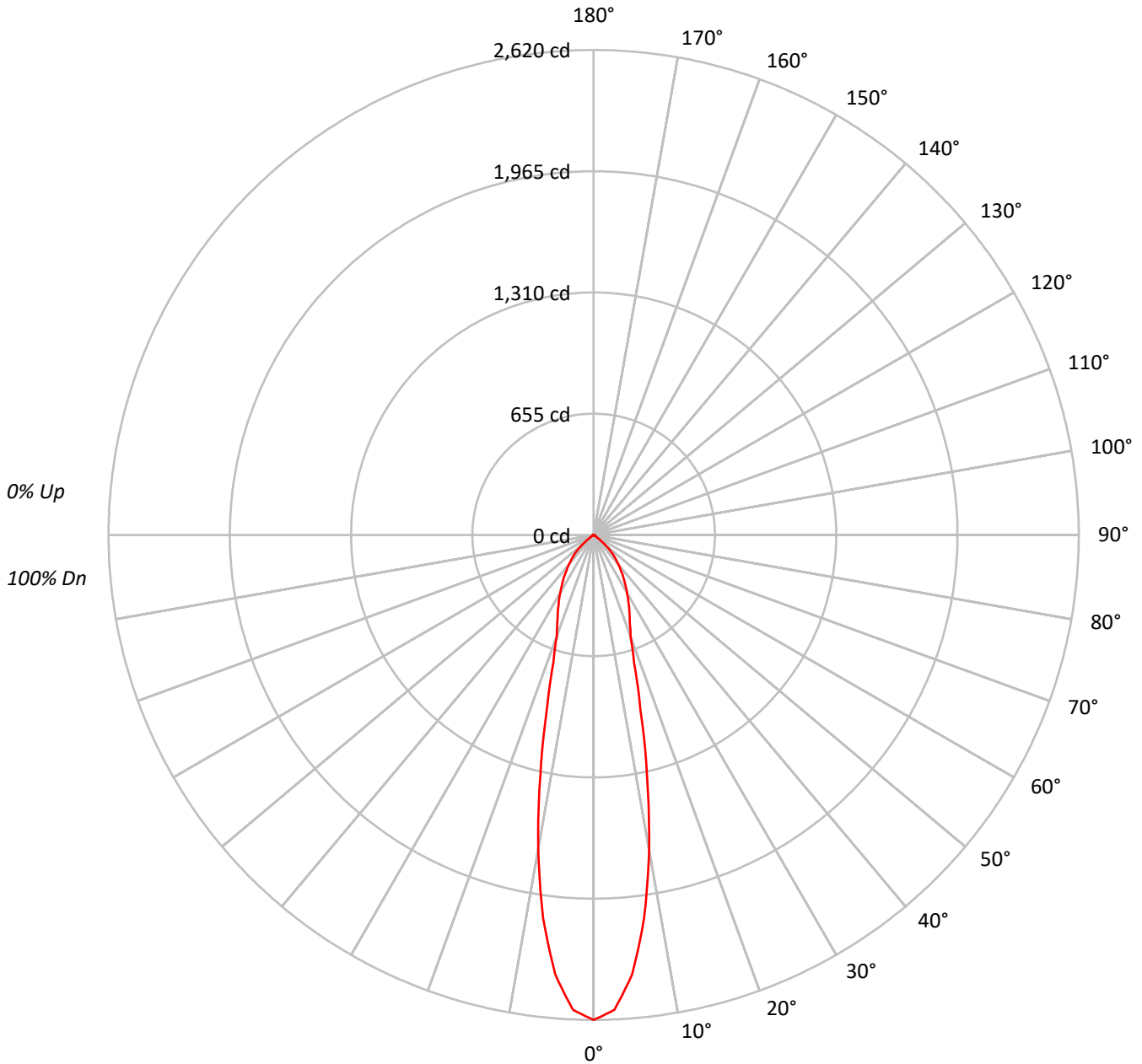
Lumens per Lamp: N/A  
Luminaire Lumens: 1006.8 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94				
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88				
3	103	97	92	88	101	96	91	88	93	89	86	90	87	85	88	86	84	82				
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77				
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72				
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68				
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64				
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61				
9	78	69	63	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58				
10	75	66	60	57	74	65	60	57	65	60	57	64	59	56	63	59	56	55				

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

	0°
0°	143656
5°	131119
10°	95990
15°	55295
20°	34005
25°	27655
30°	22820
35°	18692
40°	14871
45°	11466
50°	6098
55°	1567
60°	954
65°	506
70°	160
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°	206.1	20.5
10°-20°	279.5	27.8
20°-30°	210.7	20.9
30°-40°	174.4	17.3
40°-50°	109.1	10.8
50°-60°	22.4	2.2
60°-70°	4.0	0.4
70°-80°	0.7	0.1
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°	696.3	69.2
0°-40°	870.6	86.5
0°-60°	1002.1	99.5
0°-90°	1006.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1006.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2620	
5°	2383	206
15°	974	279
25°	457	211
35°	279	174
45°	148	109
55°	16	22
65°	4	4
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2620.5
2.5°	2568.3
5°	2382.7
7.5°	2087.9
10°	1724.4
12.5°	1330.1
15°	974.3
17.5°	724.0
20°	582.9
22.5°	510.4
25°	457.2
27.5°	406.9
30°	360.5
32.5°	318.0
35°	279.3
37.5°	240.7
40°	207.8
42.5°	175.9
45°	147.9
47.5°	107.3
50°	71.5
52.5°	33.8
55°	16.4
57.5°	11.6
60°	8.7
62.5°	5.8
65°	3.9
67.5°	1.9
70°	1.0
72.5°	1.0
75°	0.0
77.5°	1.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)