

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: P641146

Luminaire Tested: ML5612LSNFL2597FS1E - 693SNB - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641146  
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 - 2700K  
Description: ML56 RR, 25D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

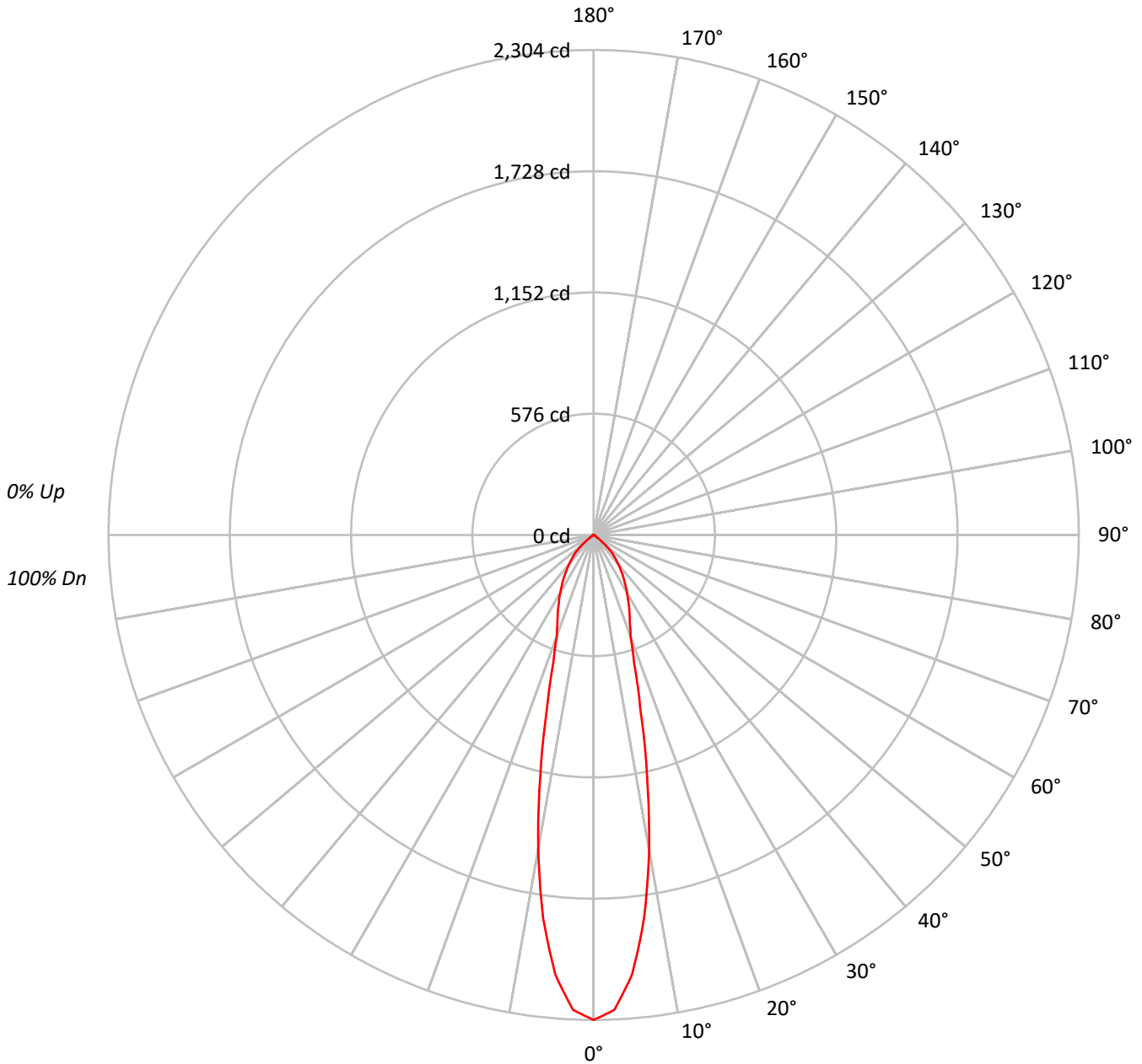
Lumens per Lamp: N/A  
Luminaire Lumens: 885.1 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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	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	91	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	74	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	75	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°	126317
5°	115292
10°	84406
15°	48621
20°	29898
25°	24316
30°	20066
35°	16436
40°	13074
45°	10079
50°	5364
55°	1376
60°	833
65°	441
70°	128
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10079 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.2	20.5
10°-20°	245.7	27.8
20°-30°	185.3	20.9
30°-40°	153.3	17.3
40°-50°	95.9	10.8
50°-60°	19.7	2.2
60°-70°	3.5	0.4
70°-80°	0.5	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°	612.2	69.2
0°-40°	765.5	86.5
0°-60°	881.1	99.5
0°-90°	885.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	885.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2304	
5°	2095	181
15°	857	246
25°	402	185
35°	246	153
45°	130	96
55°	14	20
65°	3	4
75°	0	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2304.2
2.5°	2258.3
5°	2095.1
7.5°	1835.9
10°	1516.3
12.5°	1169.5
15°	856.7
17.5°	636.6
20°	512.5
22.5°	448.8
25°	402.0
27.5°	357.8
30°	317.0
32.5°	279.6
35°	245.6
37.5°	211.6
40°	182.7
42.5°	154.7
45°	130.0
47.5°	94.3
50°	62.9
52.5°	29.7
55°	14.4
57.5°	10.2
60°	7.6
62.5°	5.1
65°	3.4
67.5°	1.7
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.8
80°	0.0
82.5°	0.0
85°	0.0
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)