

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: P640969

Luminaire Tested: ML5612LSNFL2597FS1E - 593SNB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 593SNB - 600LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

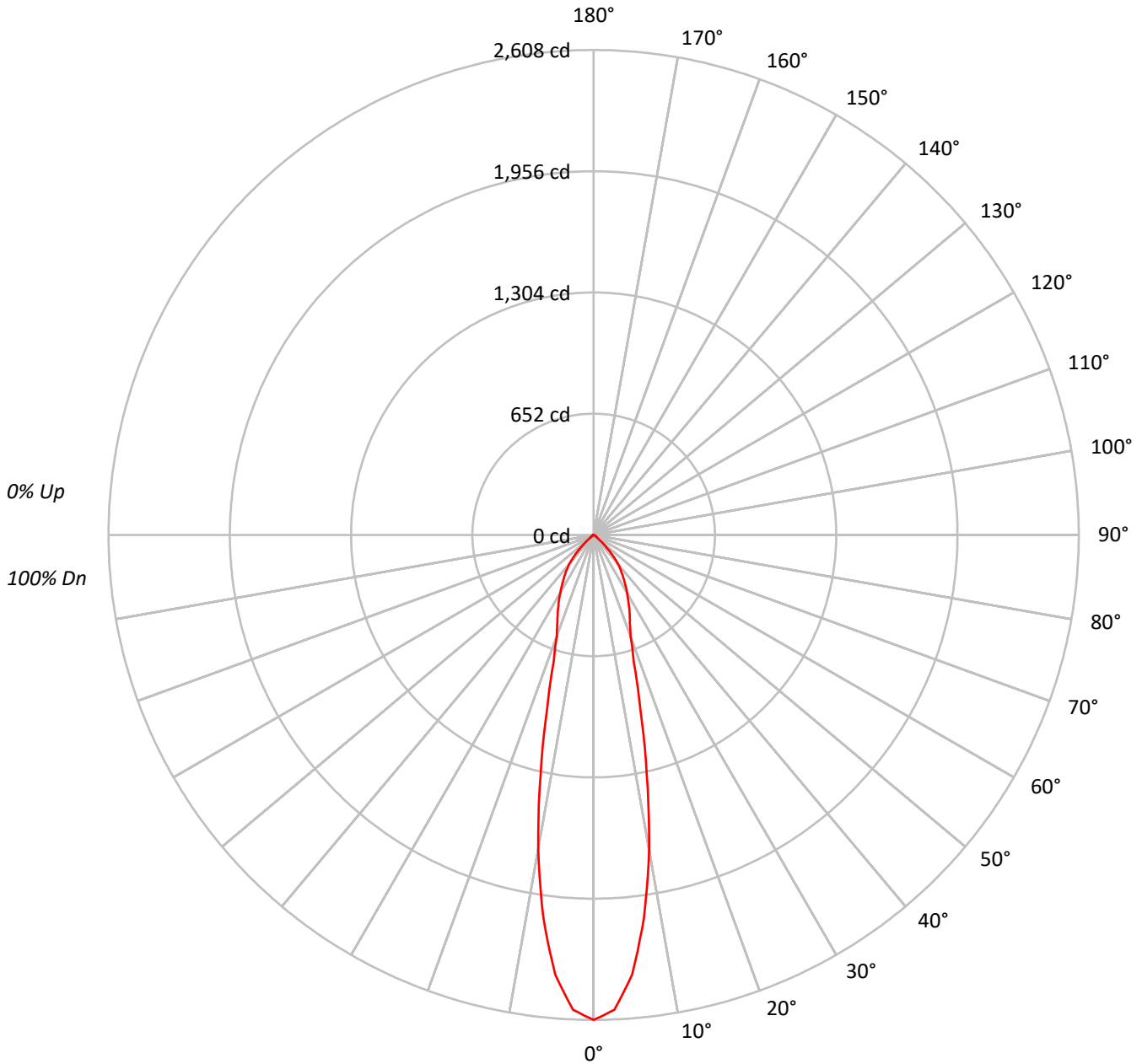
Lumens per Lamp: N/A
Luminaire Lumens: 973.6 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	205894
5°	187995
10°	137472
15°	78931
20°	48649
25°	39744
30°	32697
35°	26550
40°	20919
45°	12738
50°	4040
55°	2133
60°	1531
65°	897
70°	439
75°	305
80°	455
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12738 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	21.1
10°-20°	277.3	28.5
20°-30°	209.9	21.6
30°-40°	172.5	17.7
40°-50°	86.7	8.9
50°-60°	15.5	1.6
60°-70°	5.0	0.5
70°-80°	1.4	0.1
80°-90°	0.4	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°	692.1	71.1
0°-40°	864.6	88.8
0°-60°	966.8	99.3
0°-90°	973.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2608	
5°	2372	205
15°	966	277
25°	456	210
35°	276	172
45°	114	87
55°	16	15
65°	5	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2608.2
2.5°	2556.0
5°	2372.4
7.5°	2073.6
10°	1715.0
12.5°	1319.6
15°	965.8
17.5°	717.3
20°	579.1
22.5°	508.5
25°	456.3
27.5°	405.1
30°	358.7
32.5°	315.2
35°	275.5
37.5°	238.8
40°	203.0
42.5°	155.6
45°	114.1
47.5°	69.6
50°	32.9
52.5°	20.3
55°	15.5
57.5°	12.6
60°	9.7
62.5°	6.8
65°	4.8
67.5°	2.9
70°	1.9
72.5°	1.9
75°	1.0
77.5°	1.0
80°	1.0
82.5°	1.0
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)