

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: P640622

Luminaire Tested: ML5612LSFL4097FS1E - 593SNB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-30)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 593SNB - 600LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 983.2 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

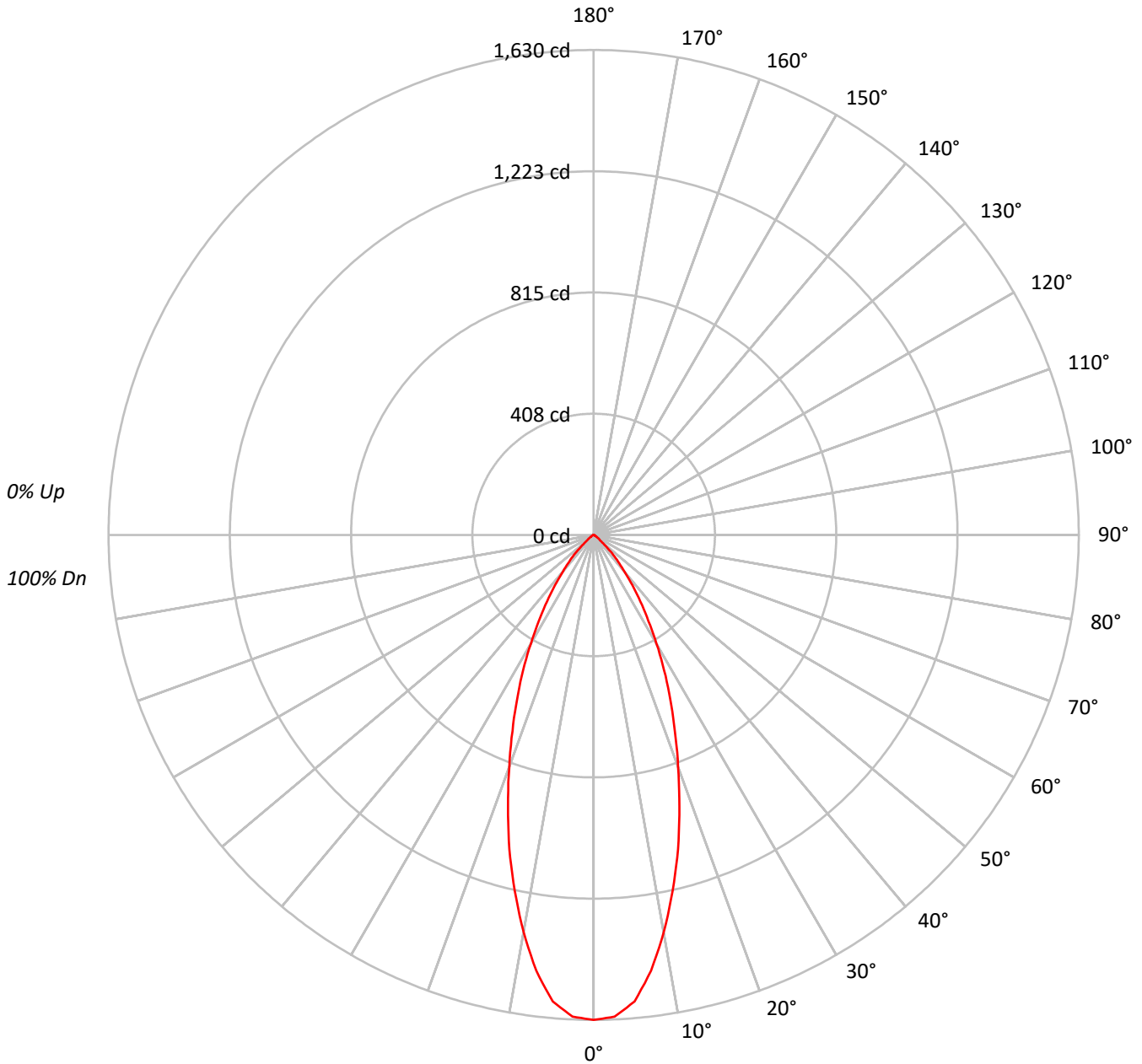
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	93	85	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72																			
6	89	81	75	71	88	80	74	70	78	74	70	77	73	69	76	72	69	68																			
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64																			
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60																			
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57																			
10	74	65	59	56	73	65	59	56	64	59	55	63	59	55	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	128682
5°	124736
10°	108655
15°	89408
20°	69642
25°	53019
30°	38503
35°	26299
40°	16488
45°	9768
50°	3647
55°	2161
60°	1247
65°	486
70°	208
75°	275
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9768 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	14.5
10°-20°	301.9	30.7
20°-30°	279.1	28.4
30°-40°	172.7	17.6
40°-50°	67.4	6.9
50°-60°	15.0	1.5
60°-70°	3.4	0.3
70°-80°	0.6	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°	724.0	73.6
0°-40°	896.7	91.2
0°-60°	979.2	99.6
0°-90°	983.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	983.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1630	
5°	1574	143
15°	1094	302
25°	609	279
35°	273	173
45°	88	67
55°	16	15
65°	3	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1630.1
2.5°	1620.5
5°	1574.1
7.5°	1477.1
10°	1355.5
12.5°	1225.2
15°	1094.0
17.5°	956.7
20°	829.0
22.5°	712.7
25°	608.7
27.5°	512.5
30°	422.4
32.5°	342.8
35°	272.9
37.5°	213.4
40°	160.0
42.5°	121.6
45°	87.5
47.5°	51.6
50°	29.7
52.5°	21.9
55°	15.7
57.5°	11.4
60°	7.9
62.5°	6.1
65°	2.6
67.5°	0.9
70°	0.9
72.5°	0.9
75°	0.9
77.5°	0.0
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)