

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: P640609

Luminaire Tested: ML5612LSFL4097FS1E - 593BB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640609
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 593BB - 600LM - 4000K
Description: ML56 RR, 40D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1071.2 lumens
Efficiency: N/A
Efficacy: 104.0 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

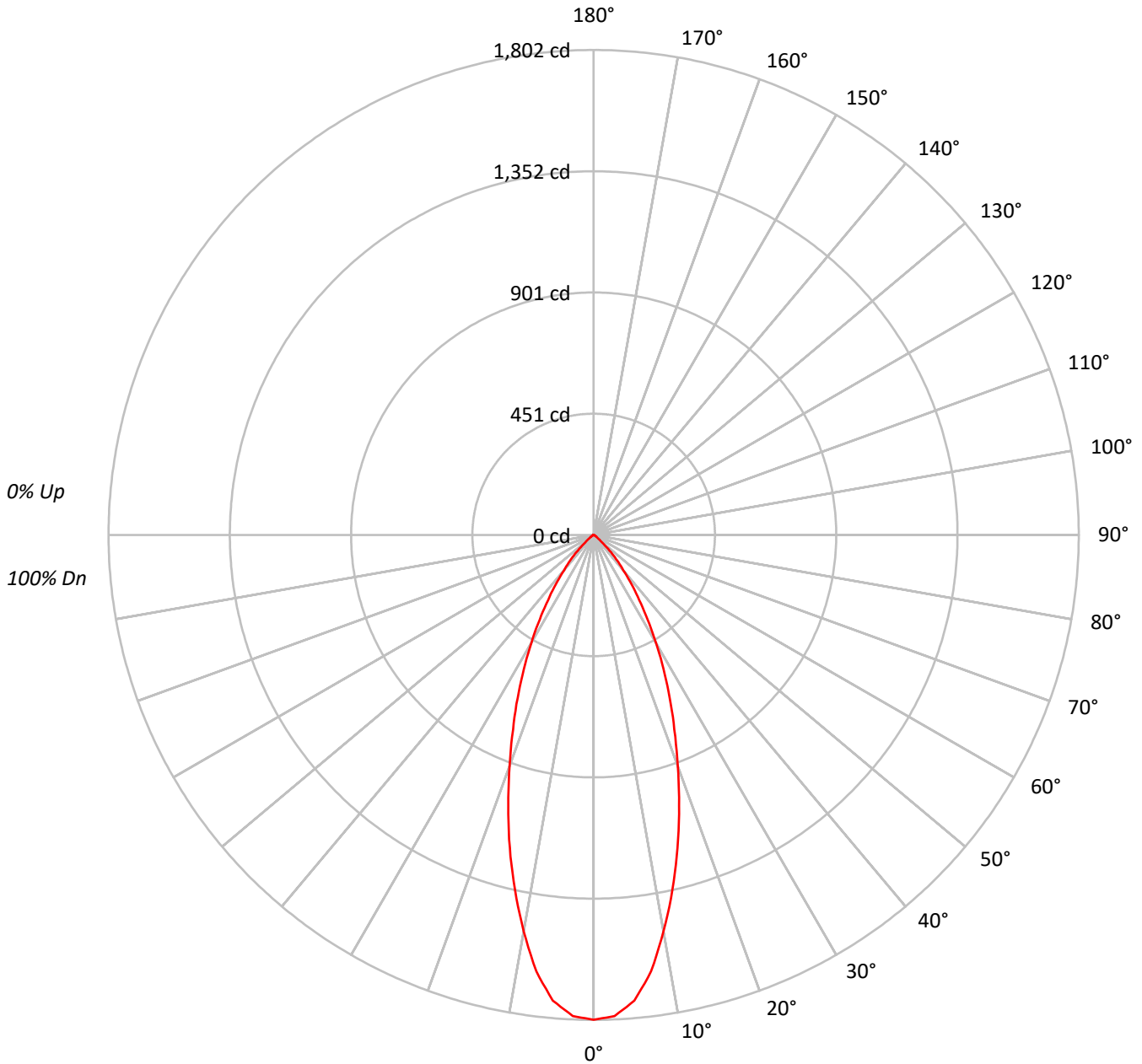
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94						94													
2	108	104	100	97	106	102	99	96	99	96	93	96	94	92	93	91	90	88						88													
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82						82													
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77						77													
5	94	86	80	76	92	85	80	76	83	79	75	81	78	74	80	77	74	72						72													
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68						68													
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64						64													
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61						61													
9	78	69	63	59	77	68	63	59	67	62	59	66	62	59	66	62	59	57						57													
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	54						54													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	142220
5°	137628
10°	119909
15°	98373
20°	76648
25°	58236
30°	42158
35°	28439
40°	17652
45°	10159
50°	3561
55°	1996
60°	1074
65°	355
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10159 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.9	14.7
10°-20°	332.6	31.1
20°-30°	306.4	28.6
30°-40°	187.4	17.5
40°-50°	70.1	6.5
50°-60°	14.2	1.3
60°-70°	2.5	0.2
70°-80°	0.0	0.0
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°	797.0	74.4
0°-40°	984.4	91.9
0°-60°	1068.7	99.8
0°-90°	1071.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1071.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1802	
5°	1737	158
15°	1204	333
25°	669	306
35°	295	187
45°	91	70
55°	14	14
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1801.6
2.5°	1789.1
5°	1736.8
7.5°	1635.2
10°	1495.9
12.5°	1350.8
15°	1203.7
17.5°	1054.7
20°	912.4
22.5°	782.8
25°	668.6
27.5°	561.2
30°	462.5
32.5°	372.5
35°	295.1
37.5°	231.3
40°	171.3
42.5°	129.7
45°	91.0
47.5°	49.3
50°	29.0
52.5°	21.3
55°	14.5
57.5°	10.6
60°	6.8
62.5°	4.8
65°	1.9
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
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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