

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: P640654

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640654
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 593WB - 600LM - 4000K
Description: ML56 RR, 40D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1098.2 lumens
Efficiency: N/A
Efficacy: 106.6 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

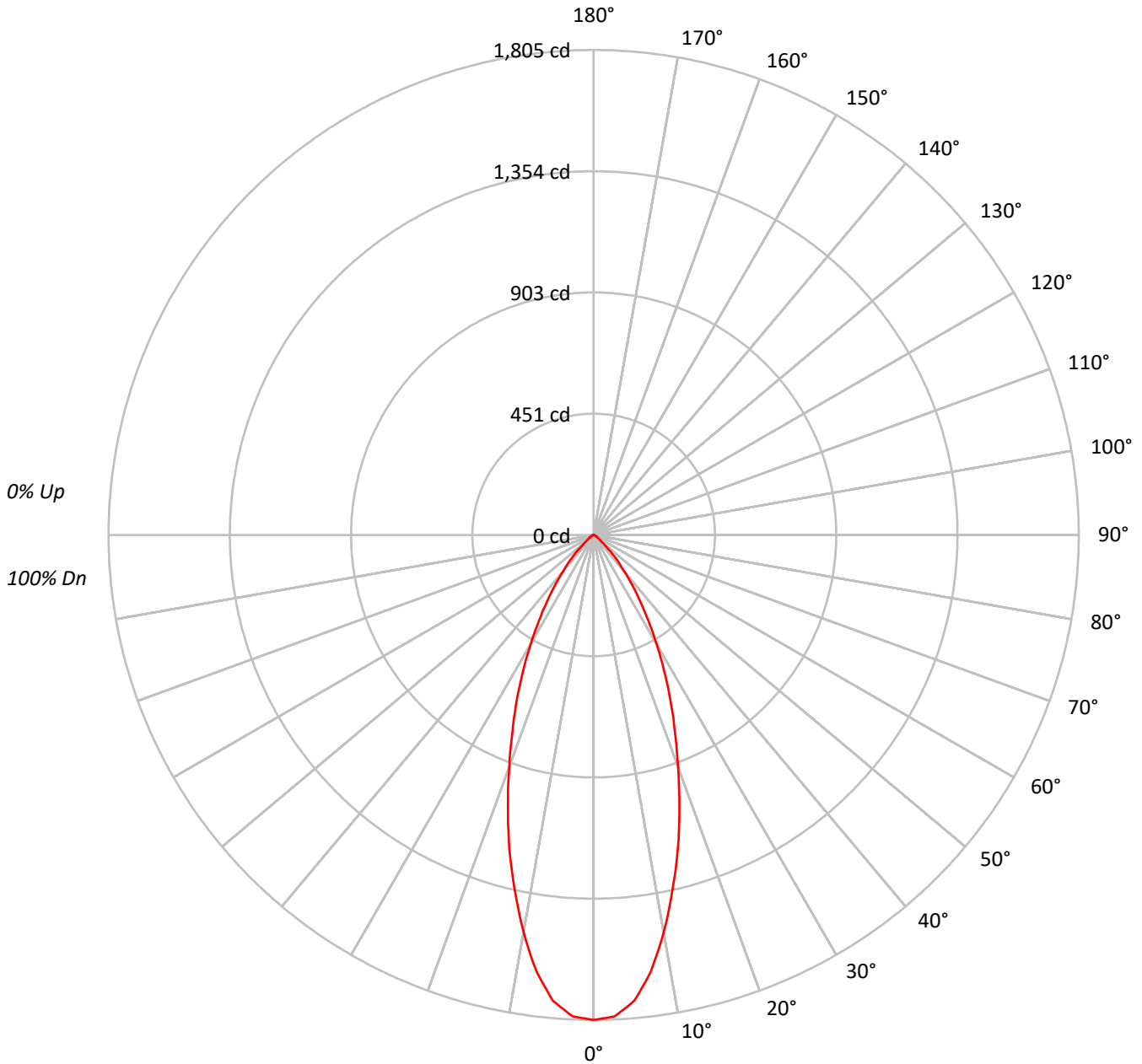
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94																			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	82	79	83	80	78	76																			
5	93	85	79	75	92	84	79	75	82	78	74	81	77	73	79	76	73	71																			
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67																			
7	85	76	70	66	83	75	69	66	74	69	65	73	68	65	71	67	64	63																			
8	81	72	66	62	80	71	66	62	70	65	61	69	64	61	68	64	61	60																			
9	77	68	62	58	76	67	62	58	66	62	58	66	61	58	65	61	58	56																			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	142496
5°	137906
10°	120358
15°	98929
20°	77077
25°	58785
30°	42569
35°	29075
40°	18137
45°	10796
50°	4274
55°	2794
60°	1989
65°	1270
70°	1108
75°	1190
80°	1318
85°	1721

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10796 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	14.4
10°-20°	334.2	30.4
20°-30°	308.9	28.1
30°-40°	190.9	17.4
40°-50°	74.0	6.7
50°-60°	19.0	1.7
60°-70°	7.4	0.7
70°-80°	3.8	0.3
80°-90°	1.7	0.2
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°	801.3	73.0
0°-40°	992.3	90.3
0°-60°	1085.3	98.8
0°-90°	1098.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1098.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1805	
5°	1740	158
15°	1210	334
25°	675	309
35°	302	191
45°	97	74
55°	20	19
65°	7	7
75°	4	4
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1805.1
2.5°	1793.5
5°	1740.3
7.5°	1636.9
10°	1501.5
12.5°	1354.6
15°	1210.5
17.5°	1060.6
20°	917.5
22.5°	788.9
25°	674.9
27.5°	565.6
30°	467.0
32.5°	378.0
35°	301.7
37.5°	236.9
40°	176.0
42.5°	134.4
45°	96.7
47.5°	54.1
50°	34.8
52.5°	26.1
55°	20.3
57.5°	15.5
60°	12.6
62.5°	9.7
65°	6.8
67.5°	4.8
70°	4.8
72.5°	3.9
75°	3.9
77.5°	2.9
80°	2.9
82.5°	1.9
85°	1.9
87.5°	1.0
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)