

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: P640753

Luminaire Tested: ML5612LSFL4097FS1E - 692SC - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 692SC - 1200LM - 3500K
Description: ML56 RR, 40D TIR OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1597.8 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 0.59 / 0.59 / 0.66
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

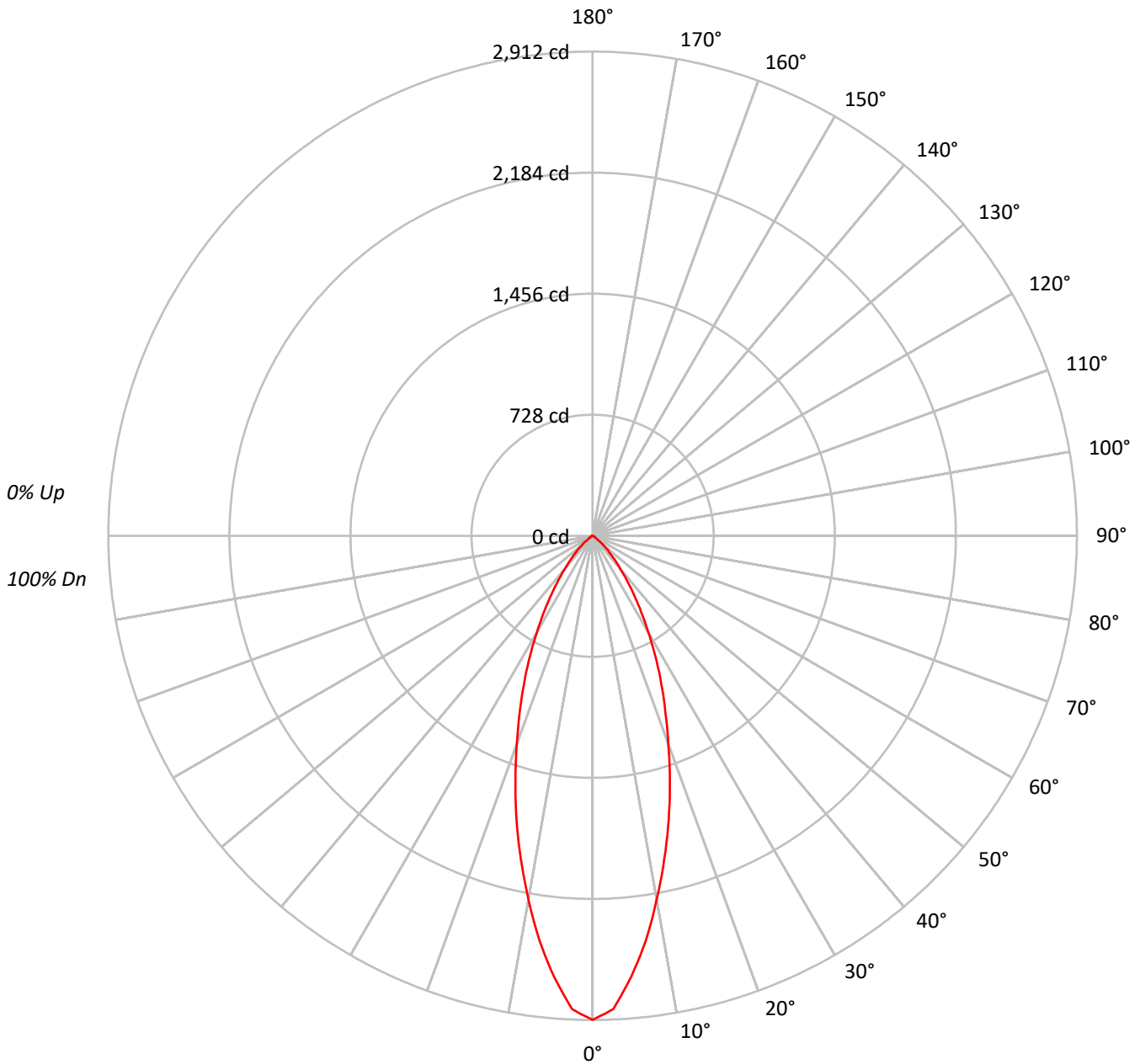
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	107	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	88	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	73	72																			
6	89	81	75	71	88	80	74	71	78	74	70	77	73	70	76	72	69	68																			
7	85	76	70	66	84	76	70	66	74	69	66	73	69	66	72	68	65	64																			
8	81	72	66	62	80	72	66	62	71	66	62	69	65	62	69	65	62	60																			
9	78	68	63	59	77	68	63	59	67	62	59	66	62	59	65	61	58	57																			
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	62	58	55	54																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	159614
5°	146478
10°	123617
15°	100290
20°	77683
25°	58848
30°	42412
35°	28958
40°	18578
45°	11366
50°	5953
55°	2265
60°	1381
65°	545
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11366 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	15.1
10°-20°	488.7	30.6
20°-30°	446.1	27.9
30°-40°	274.3	17.2
40°-50°	117.7	7.4
50°-60°	26.0	1.6
60°-70°	4.6	0.3
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°	1175.2	73.5
0°-40°	1449.5	90.7
0°-60°	1593.2	99.7
0°-90°	1597.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1597.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2912	
5°	2662	240
15°	1767	489
25°	973	446
35°	433	274
45°	147	118
55°	24	26
65°	4	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2911.6
2.5°	2850.2
5°	2661.8
7.5°	2455.2
10°	2220.7
12.5°	1991.8
15°	1767.1
17.5°	1542.3
20°	1331.6
22.5°	1143.1
25°	972.9
27.5°	815.1
30°	670.0
32.5°	543.0
35°	432.7
37.5°	337.8
40°	259.6
42.5°	199.6
45°	146.6
47.5°	107.5
50°	69.8
52.5°	34.9
55°	23.7
57.5°	18.1
60°	12.6
62.5°	8.4
65°	4.2
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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