

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: P640885

Luminaire Tested: ML5612LSFL4097FS1E - 696WB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 696WB - 900LM - 5000K
Description: ML56 RR, 40D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1431.8 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

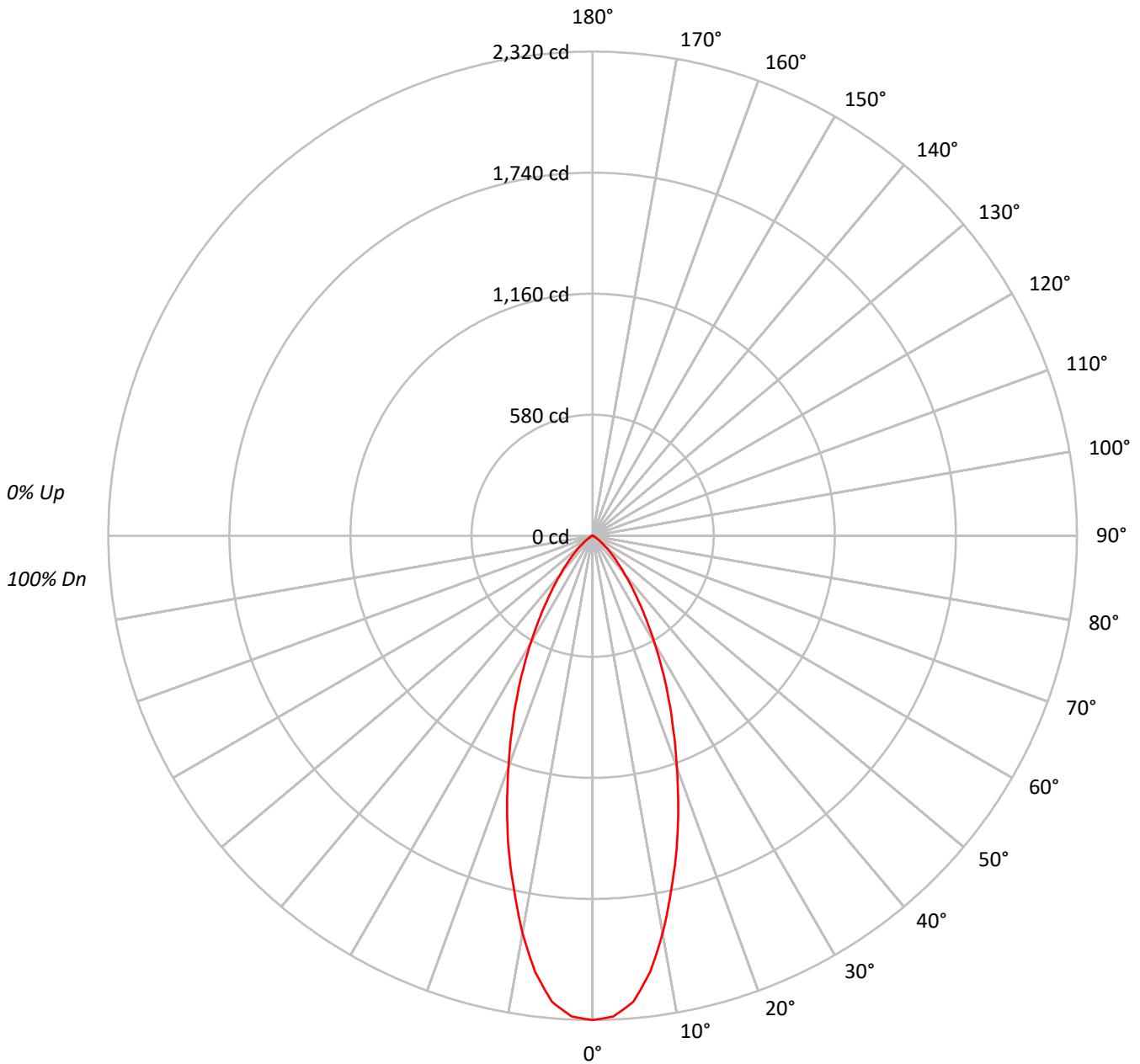
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	100	98	97	96	95	94																			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87																			
3	103	96	91	87	101	95	90	87	92	89	85	90	87	84	88	85	83	81																			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76																			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71																			
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66																			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63																			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	61	67	63	60	59																			
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56																			
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	127205
5°	123321
10°	107624
15°	88264
20°	68804
25°	52061
30°	37525
35°	25732
40°	16860
45°	10962
50°	6456
55°	3555
60°	2039
65°	1129
70°	593
75°	254
80°	379
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10962 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	14.2
10°-20°	429.3	30.0
20°-30°	394.5	27.6
30°-40°	244.4	17.1
40°-50°	111.8	7.8
50°-60°	36.2	2.5
60°-70°	9.4	0.7
70°-80°	1.9	0.1
80°-90°	0.5	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°	1027.6	71.8
0°-40°	1271.9	88.8
0°-60°	1419.9	99.2
0°-90°	1431.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1431.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2320	
5°	2241	204
15°	1555	429
25°	861	395
35°	384	244
45°	141	112
55°	37	36
65°	9	9
75°	1	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2320.4
2.5°	2305.5
5°	2241.0
7.5°	2108.3
10°	1933.4
12.5°	1737.5
15°	1555.2
17.5°	1361.7
20°	1179.4
22.5°	1010.7
25°	860.7
27.5°	720.5
30°	592.8
32.5°	481.2
35°	384.5
37.5°	303.8
40°	235.6
42.5°	183.5
45°	141.4
47.5°	105.4
50°	75.7
52.5°	53.3
55°	37.2
57.5°	26.0
60°	18.6
62.5°	13.6
65°	8.7
67.5°	5.0
70°	3.7
72.5°	2.5
75°	1.2
77.5°	1.2
80°	1.2
82.5°	1.2
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)