

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: P640838

Luminaire Tested: ML5612LSFL4097FS1E - 693WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 693WB - 900LM - 3500K
Description: ML56 RR, 40D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1318.8 lumens
Efficiency: N/A
Efficacy: 99.2 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

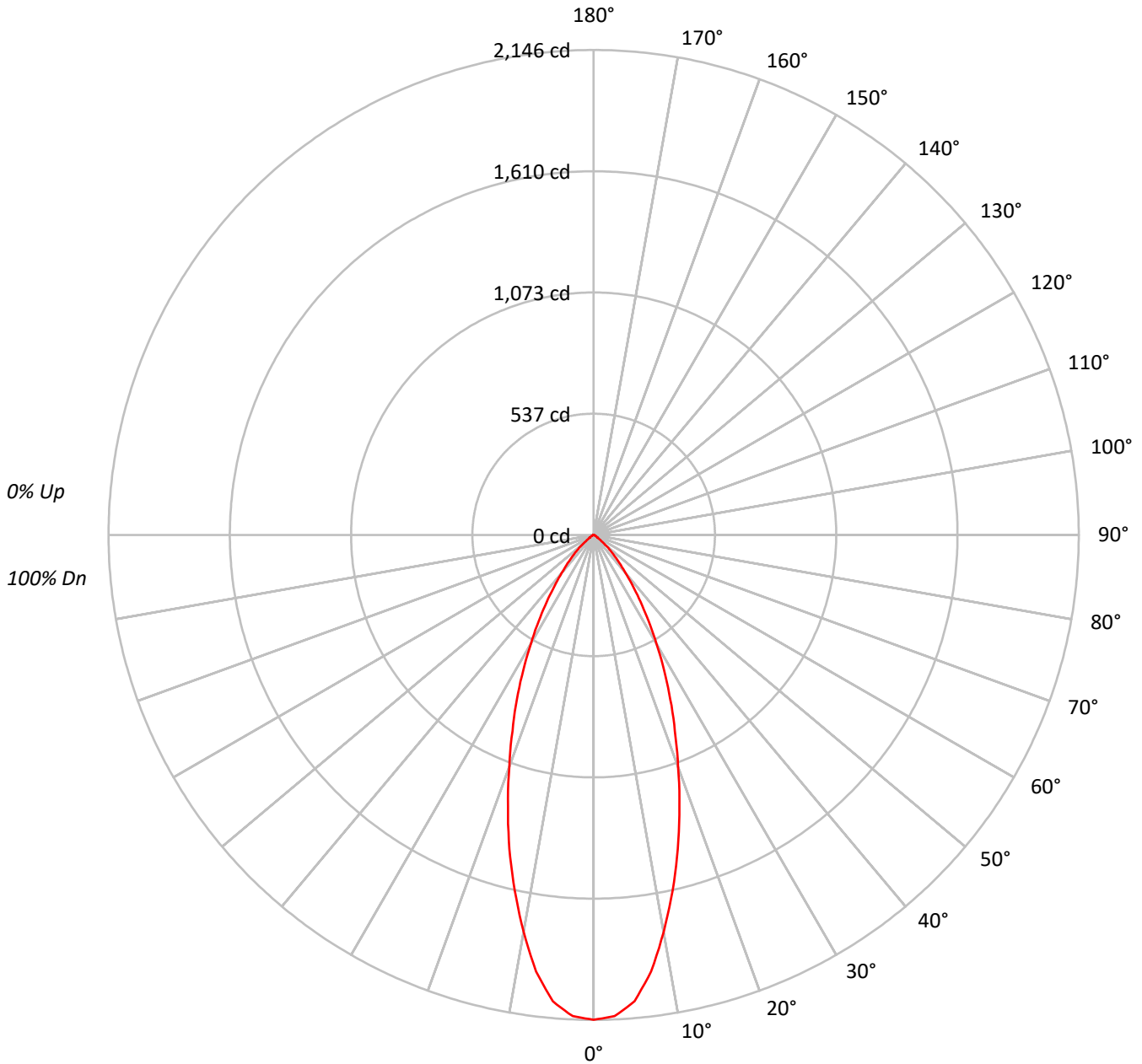
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				100															
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94				94															
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87				87															
3	103	96	92	88	101	95	91	87	92	89	86	90	87	84	88	85	83	81				81															
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76				76															
5	93	85	79	75	91	84	79	75	82	77	74	80	76	73	79	75	73	71				71															
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67				67															
7	84	75	70	65	83	75	69	65	73	69	65	72	68	65	71	67	64	63				63															
8	81	71	66	62	79	71	65	61	70	65	61	69	64	61	68	64	61	59				59															
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	60	57	56				56															
10	74	64	59	55	73	64	58	55	63	58	55	62	58	55	62	57	54	53				53															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	117622
5°	114010
10°	99286
15°	81658
20°	63694
25°	48535
30°	35176
35°	24153
40°	15679
45°	9745
50°	5211
55°	2208
60°	1513
65°	895
70°	561
75°	487
80°	726
85°	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9745 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	14.3
10°-20°	397.4	30.1
20°-30°	367.5	27.9
30°-40°	228.9	17.4
40°-50°	100.7	7.6
50°-60°	24.6	1.9
60°-70°	7.2	0.5
70°-80°	2.9	0.2
80°-90°	1.3	0.1
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°	953.1	72.3
0°-40°	1182.1	89.6
0°-60°	1307.4	99.1
0°-90°	1318.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1318.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2146	
5°	2072	188
15°	1439	397
25°	802	367
35°	361	229
45°	126	101
55°	23	25
65°	7	7
75°	2	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2145.6
2.5°	2131.7
5°	2071.8
7.5°	1948.4
10°	1783.6
12.5°	1611.8
15°	1438.8
17.5°	1261.3
20°	1091.8
22.5°	938.5
25°	802.4
27.5°	673.3
30°	555.7
32.5°	451.9
35°	360.9
37.5°	283.6
40°	219.1
42.5°	169.5
45°	125.7
47.5°	93.4
50°	61.1
52.5°	32.3
55°	23.1
57.5°	18.4
60°	13.8
62.5°	10.4
65°	6.9
67.5°	3.5
70°	3.5
72.5°	3.5
75°	2.3
77.5°	2.3
80°	2.3
82.5°	1.2
85°	1.2
87.5°	1.2
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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