

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: P640656

Luminaire Tested: ML5612LSFL4097FS1E - 593WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640656
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 - 900LM - 2700K
Description: ML56 RR, 40D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1239.5 lumens
Efficiency: N/A
Efficacy: 93.2 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

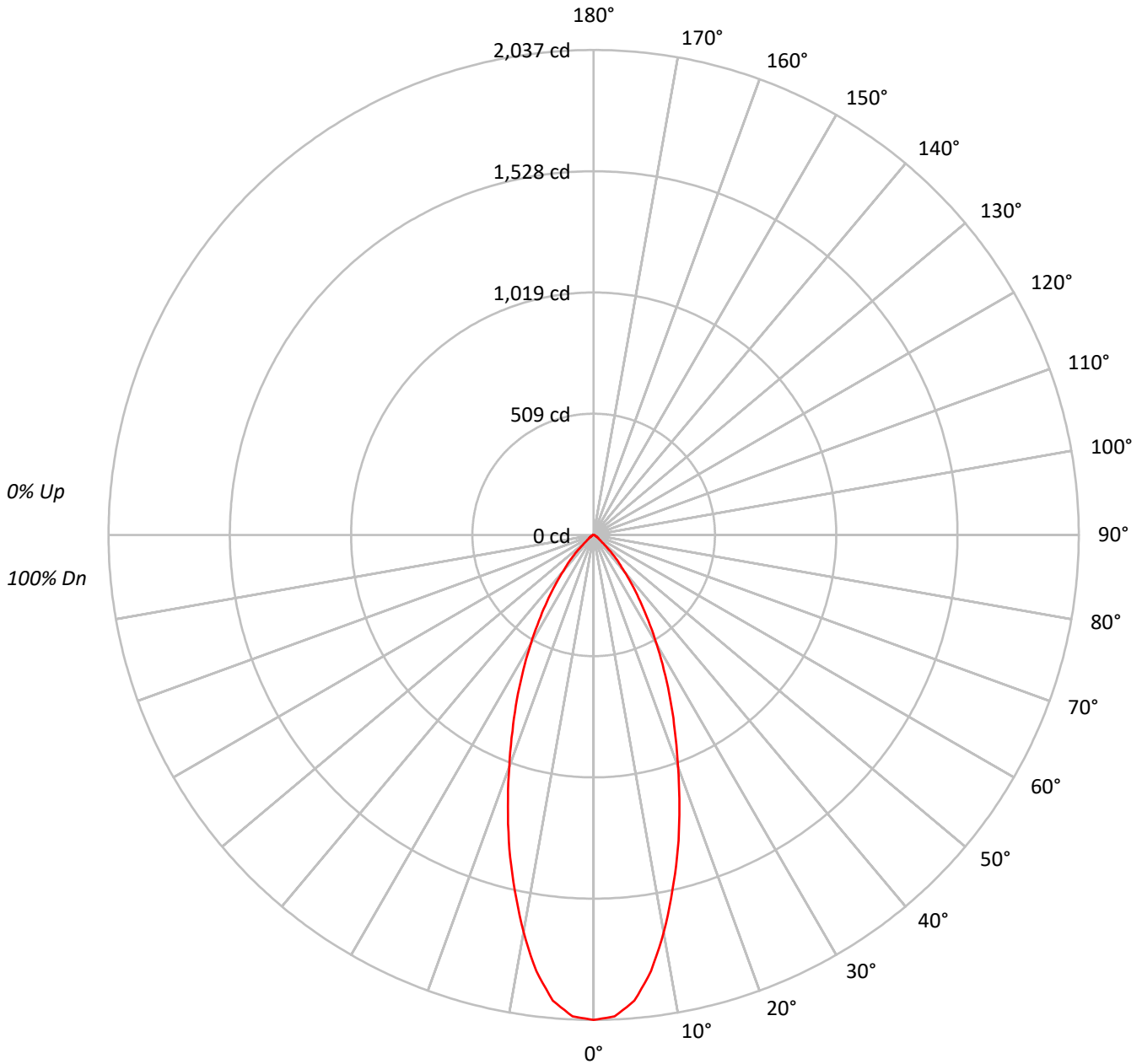
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	91	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	72	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°	160818
5°	155632
10°	135829
15°	111645
20°	86989
25°	66337
30°	48038
35°	32804
40°	20466
45°	12180
50°	4826
55°	3152
60°	2242
65°	1420
70°	1269
75°	1342
80°	1500
85°	1993

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12180 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	14.4
10°-20°	377.2	30.4
20°-30°	348.6	28.1
30°-40°	215.4	17.4
40°-50°	83.6	6.7
50°-60°	21.5	1.7
60°-70°	8.3	0.7
70°-80°	4.4	0.4
80°-90°	1.9	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°	904.4	73.0
0°-40°	1119.8	90.3
0°-60°	1224.8	98.8
0°-90°	1239.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1239.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2037	
5°	1964	179
15°	1366	377
25°	762	349
35°	340	215
45°	109	84
55°	23	21
65°	8	8
75°	4	4
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2037.2
2.5°	2024.1
5°	1964.0
7.5°	1847.3
10°	1694.5
12.5°	1528.7
15°	1366.1
17.5°	1197.0
20°	1035.5
22.5°	890.4
25°	761.6
27.5°	638.3
30°	527.0
32.5°	426.6
35°	340.4
37.5°	267.3
40°	198.6
42.5°	151.7
45°	109.1
47.5°	61.1
50°	39.3
52.5°	29.5
55°	22.9
57.5°	17.5
60°	14.2
62.5°	10.9
65°	7.6
67.5°	5.5
70°	5.5
72.5°	4.4
75°	4.4
77.5°	3.3
80°	3.3
82.5°	2.2
85°	2.2
87.5°	1.1
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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