

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: P642382

Luminaire Tested: ML5615LSFL409FS1E - 592H - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSFL409FS1E - 592H - 900LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1168.4 lumens
Efficiency: N/A
Efficacy: 111.3 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

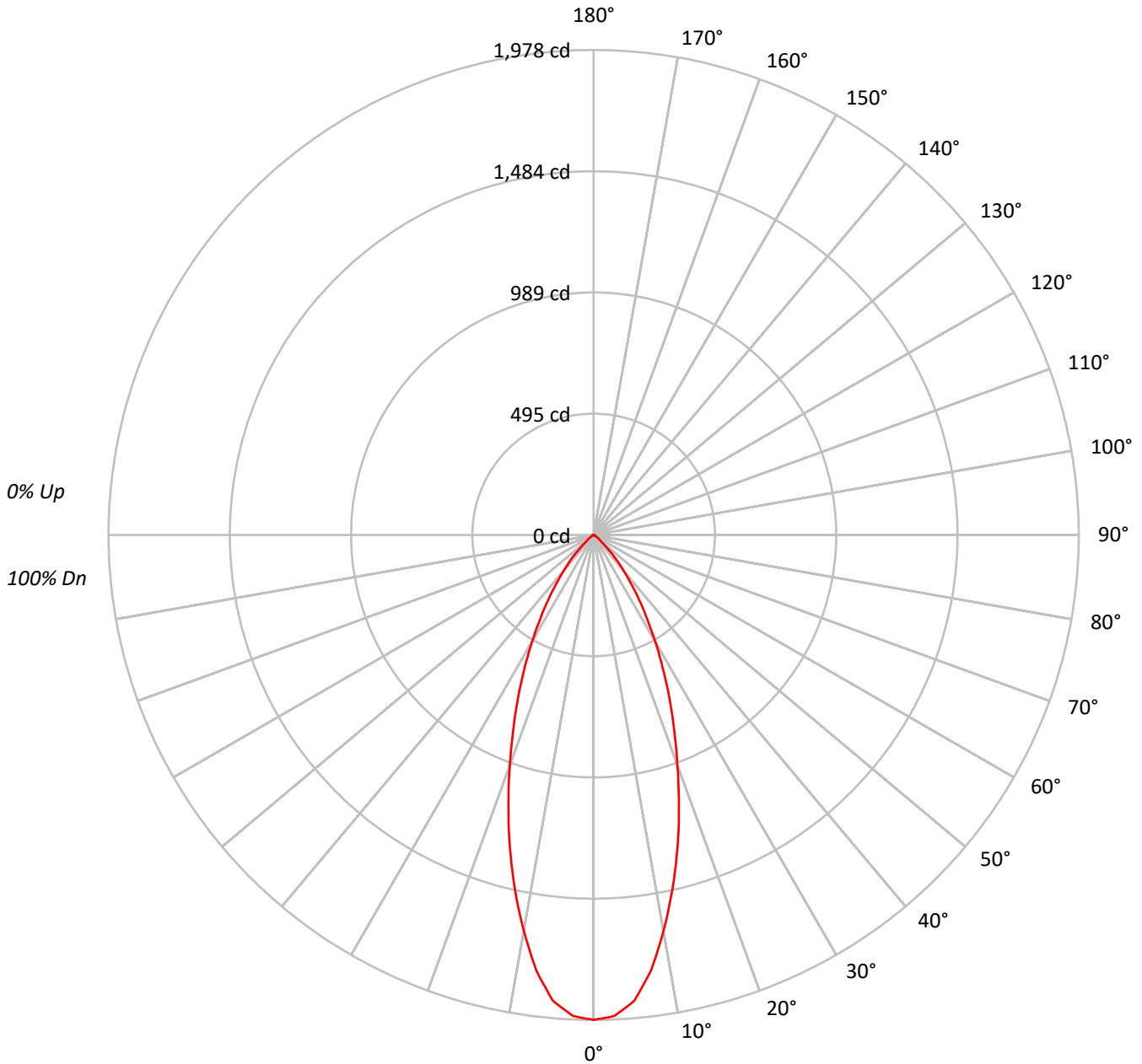
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				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
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	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88		
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82		
4	98	91	86	82	97	90	85	81	88	84	80	86	82	80	84	81	79	77		
5	94	86	80	76	92	85	80	76	83	79	75	82	78	75	80	77	74	72		
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	70	68		
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64		
8	82	72	67	63	80	72	67	63	71	66	63	70	65	62	69	65	62	61		
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57		
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	156145
5°	151115
10°	131508
15°	107853
20°	83814
25°	63340
30°	45567
35°	31021
40°	19291
45°	10561
50°	3918
55°	2271
60°	1295
65°	392
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	14.8
10°-20°	364.6	31.2
20°-30°	333.3	28.5
30°-40°	203.4	17.4
40°-50°	75.2	6.4
50°-60°	15.8	1.4
60°-70°	2.7	0.2
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°	871.2	74.6
0°-40°	1074.6	92.0
0°-60°	1165.7	99.8
0°-90°	1168.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1168.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1978	
5°	1907	173
15°	1320	365
25°	727	333
35°	322	203
45°	95	75
55°	16	16
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1978.0
2.5°	1963.6
5°	1907.0
7.5°	1791.8
10°	1640.6
12.5°	1482.2
15°	1319.7
17.5°	1156.1
20°	997.7
22.5°	854.8
25°	727.2
27.5°	607.9
30°	499.9
32.5°	404.2
35°	321.9
37.5°	249.9
40°	187.2
42.5°	141.9
45°	94.6
47.5°	51.4
50°	31.9
52.5°	23.7
55°	16.5
57.5°	11.3
60°	8.2
62.5°	5.1
65°	2.1
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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