

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P642009

Luminaire Tested: ML5612LSWFL5597FS1E - 593SNB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642009
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 593SNB - 900LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1371.8 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

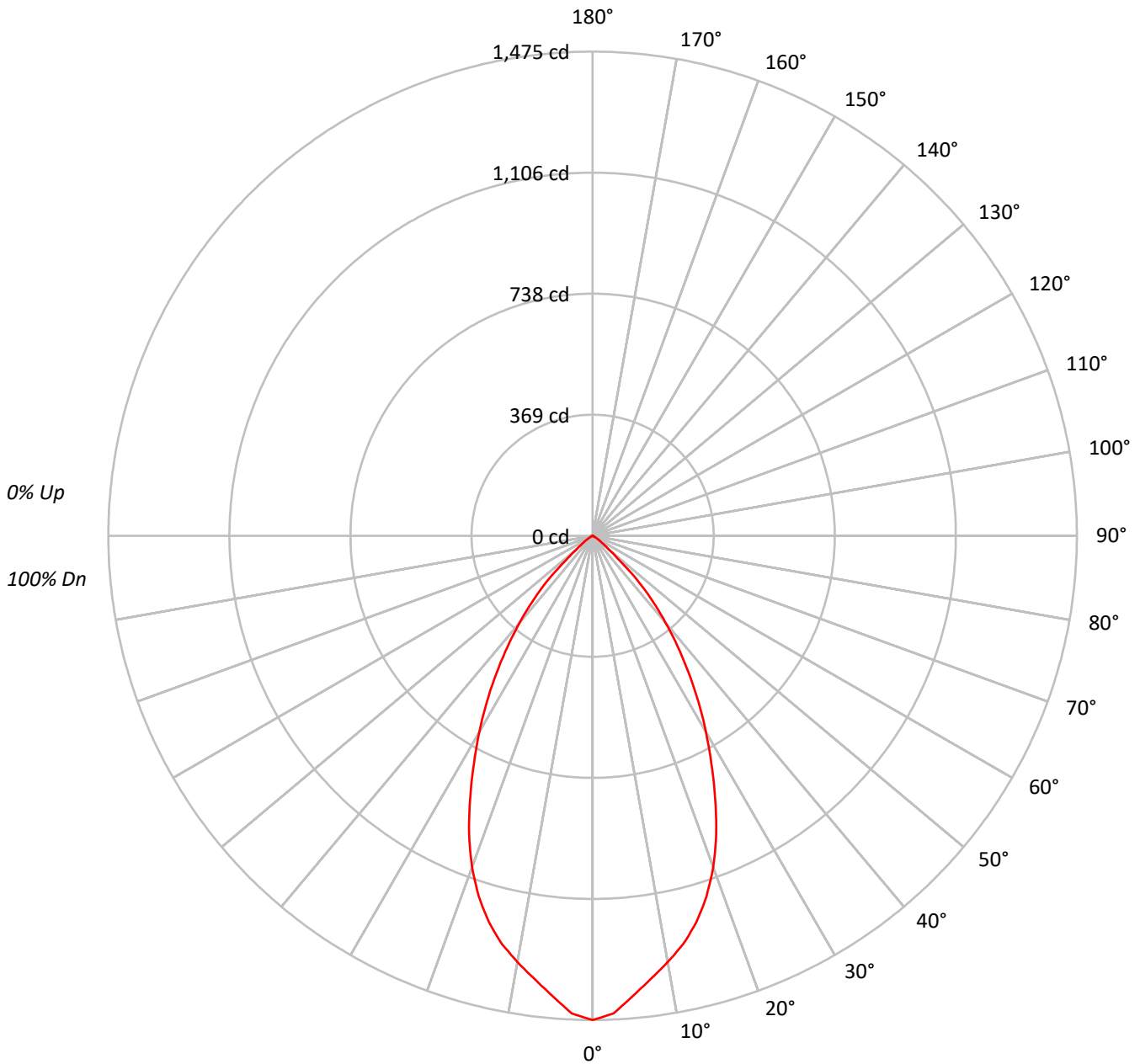
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	107	102	98	94	105	101	97	93	97	94	91	94	92	89	91	89	88	86			86																
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79			79																
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73			73																
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68			68																
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63			63																
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58			58																
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54			54																
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51			51																
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116438
5°	111478
10°	105705
15°	99664
20°	90249
25°	76937
30°	62868
35°	49139
40°	35666
45°	22160
50°	7614
55°	3592
60°	1374
65°	467
70°	277
75°	366
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22160 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	9.6
10°-20°	339.7	24.8
20°-30°	403.4	29.4
30°-40°	318.1	23.2
40°-50°	149.0	10.9
50°-60°	25.9	1.9
60°-70°	3.3	0.2
70°-80°	0.8	0.1
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°	874.7	63.8
0°-40°	1192.8	87.0
0°-60°	1367.6	99.7
0°-90°	1371.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1371.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1475	
5°	1407	132
15°	1220	340
25°	883	403
35°	510	318
45°	198	149
55°	26	26
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1475.0
2.5°	1456.4
5°	1406.8
7.5°	1360.9
10°	1318.7
12.5°	1274.1
15°	1219.5
17.5°	1152.5
20°	1074.3
22.5°	983.8
25°	883.3
27.5°	782.8
30°	689.7
32.5°	599.2
35°	509.9
37.5°	425.5
40°	346.1
42.5°	271.7
45°	198.5
47.5°	111.6
50°	62.0
52.5°	39.7
55°	26.1
57.5°	16.1
60°	8.7
62.5°	5.0
65°	2.5
67.5°	1.2
70°	1.2
72.5°	1.2
75°	1.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)