

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: P643997

Luminaire Tested: ML5615LSWFL559FS1E - 693SNB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-65)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 693SNB - 1500LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1791.2 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

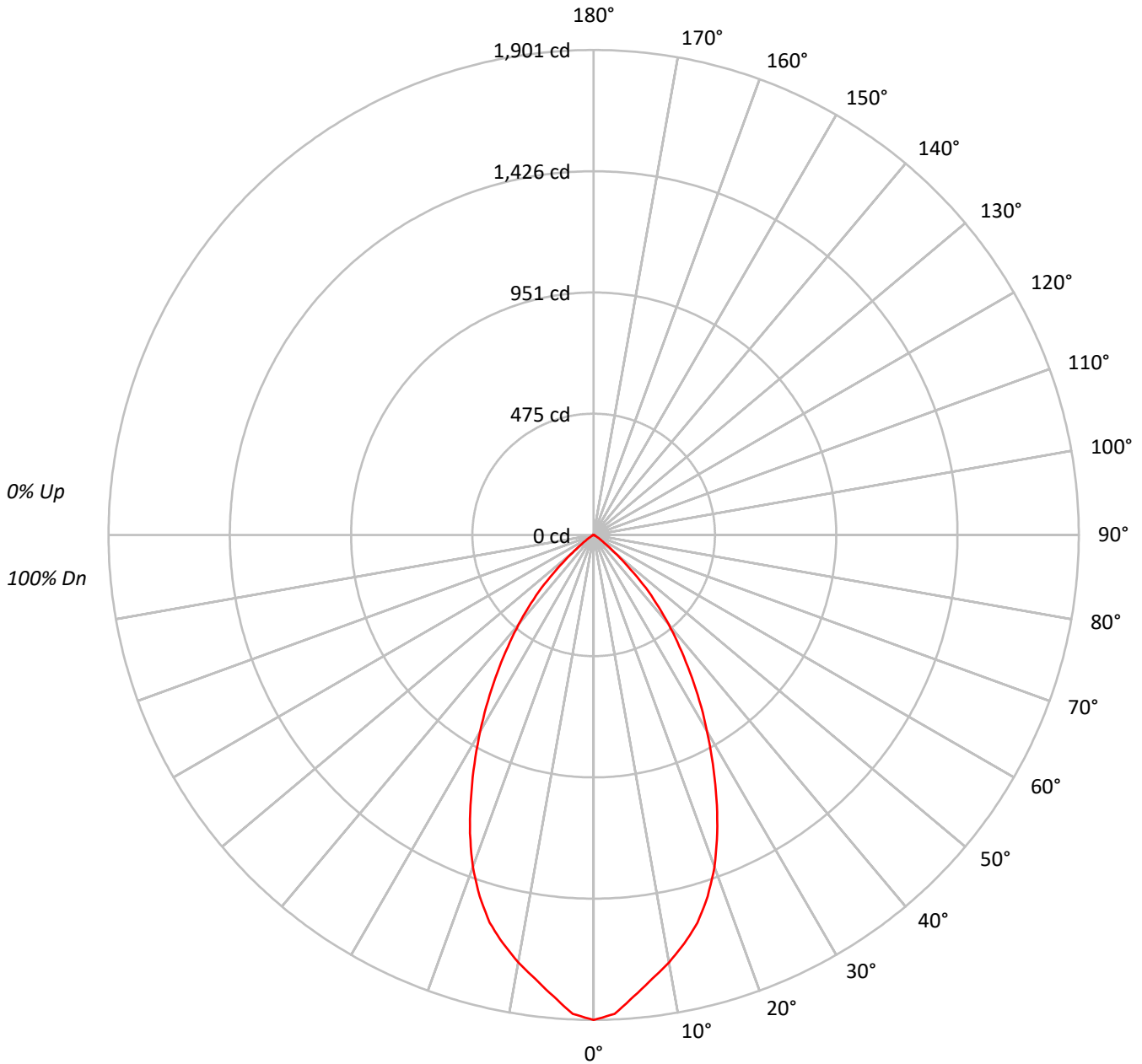
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86																			
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79																			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73																			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67																			
6	86	76	70	65	84	75	70	65	74	69	65	72	68	64	71	67	64	62																			
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58																			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	104230
5°	99868
10°	94699
15°	89285
20°	80758
25°	68829
30°	56224
35°	44022
40°	32640
45°	21219
50°	9143
55°	3364
60°	1579
65°	415
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21219 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.8	9.5
10°-20°	437.8	24.4
20°-30°	519.9	29.0
30°-40°	411.4	23.0
40°-50°	208.8	11.7
50°-60°	39.1	2.2
60°-70°	4.5	0.3
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°	1127.4	62.9
0°-40°	1538.8	85.9
0°-60°	1786.8	99.7
0°-90°	1791.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1791.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1901	
5°	1815	170
15°	1573	438
25°	1138	520
35°	658	411
45°	274	209
55°	35	39
65°	3	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1901.3
2.5°	1878.9
5°	1814.8
7.5°	1755.6
10°	1701.2
12.5°	1640.4
15°	1573.2
17.5°	1485.2
20°	1384.3
22.5°	1265.9
25°	1137.9
27.5°	1011.4
30°	888.2
32.5°	771.4
35°	657.8
37.5°	552.1
40°	456.1
42.5°	363.3
45°	273.7
47.5°	179.2
50°	107.2
52.5°	57.6
55°	35.2
57.5°	24.0
60°	14.4
62.5°	6.4
65°	3.2
67.5°	1.6
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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(END OF REPORT)