

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: P643822

Luminaire Tested: ML5615LSWFL559FS1E - 593SNB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643822
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: ML5615LSWFL559FS1E - 593SNB - 900LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

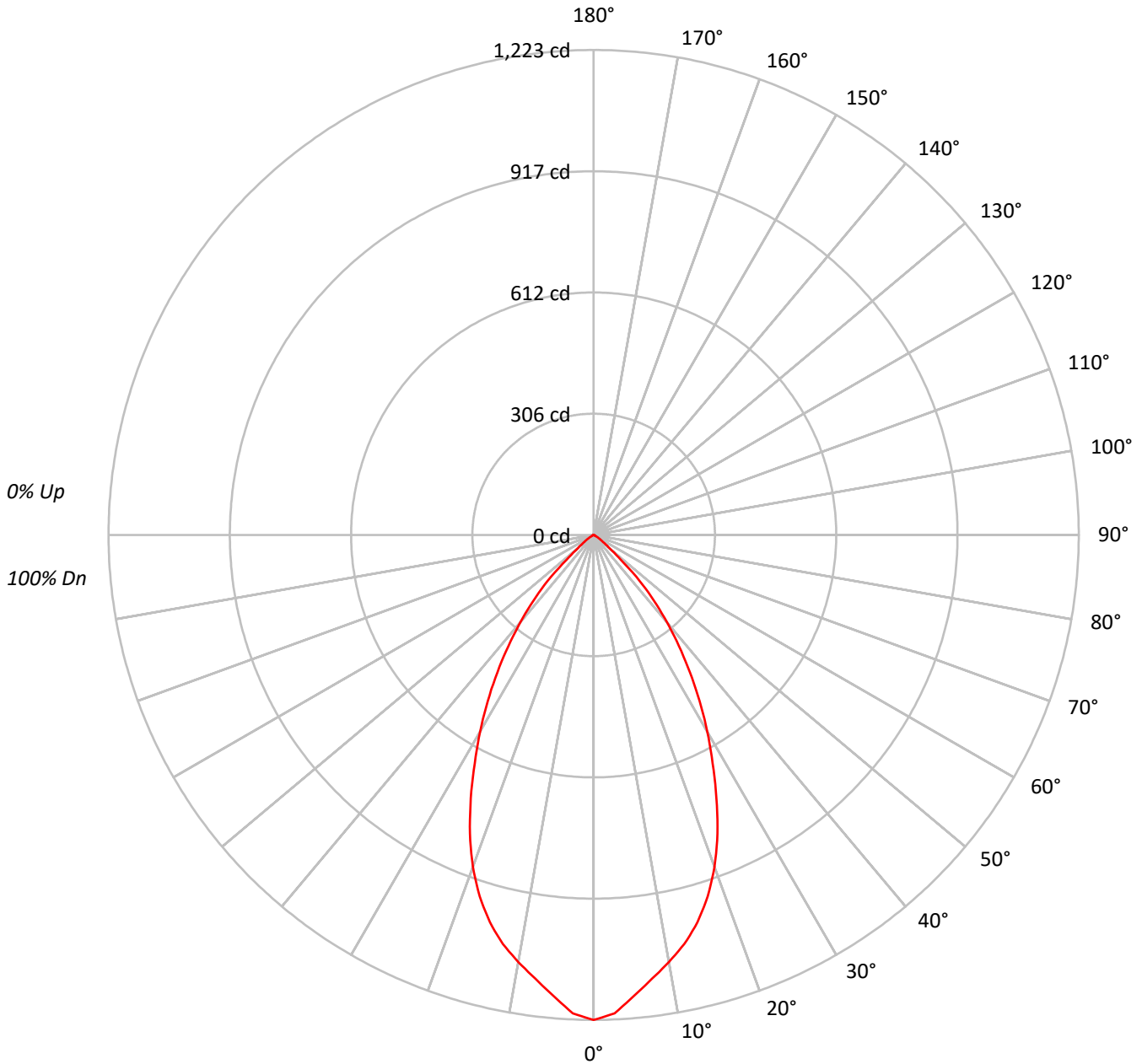
Lumens per Lamp: N/A
Luminaire Lumens: 1137.6 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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																			
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	94	105	101	97	93	97	94	91	94	92	89	91	89	88	86																			
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79																			
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73																			
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68																			
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																			
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																			
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54																			
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	96561
5°	92444
10°	87662
15°	82649
20°	74842
25°	63802
30°	52140
35°	40745
40°	29575
45°	18376
50°	6312
55°	2973
60°	1137
65°	392
70°	231
75°	305
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18376 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	9.6
10°-20°	281.7	24.8
20°-30°	334.5	29.4
30°-40°	263.8	23.2
40°-50°	123.6	10.9
50°-60°	21.4	1.9
60°-70°	2.8	0.2
70°-80°	0.7	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°	725.3	63.8
0°-40°	989.2	87.0
0°-60°	1134.2	99.7
0°-90°	1137.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1137.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1223	
5°	1167	109
15°	1011	282
25°	732	335
35°	423	264
45°	165	124
55°	22	21
65°	2	3
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1223.2
2.5°	1207.8
5°	1166.6
7.5°	1128.6
10°	1093.6
12.5°	1056.6
15°	1011.3
17.5°	955.7
20°	890.9
22.5°	815.8
25°	732.5
27.5°	649.2
30°	572.0
32.5°	496.9
35°	422.8
37.5°	352.9
40°	287.0
42.5°	225.3
45°	164.6
47.5°	92.6
50°	51.4
52.5°	32.9
55°	21.6
57.5°	13.4
60°	7.2
62.5°	4.1
65°	2.1
67.5°	1.0
70°	1.0
72.5°	1.0
75°	1.0
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)