

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: P643820

Luminaire Tested: ML5615LSWFL559FS1E - 593SNB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643820
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 - 1500LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

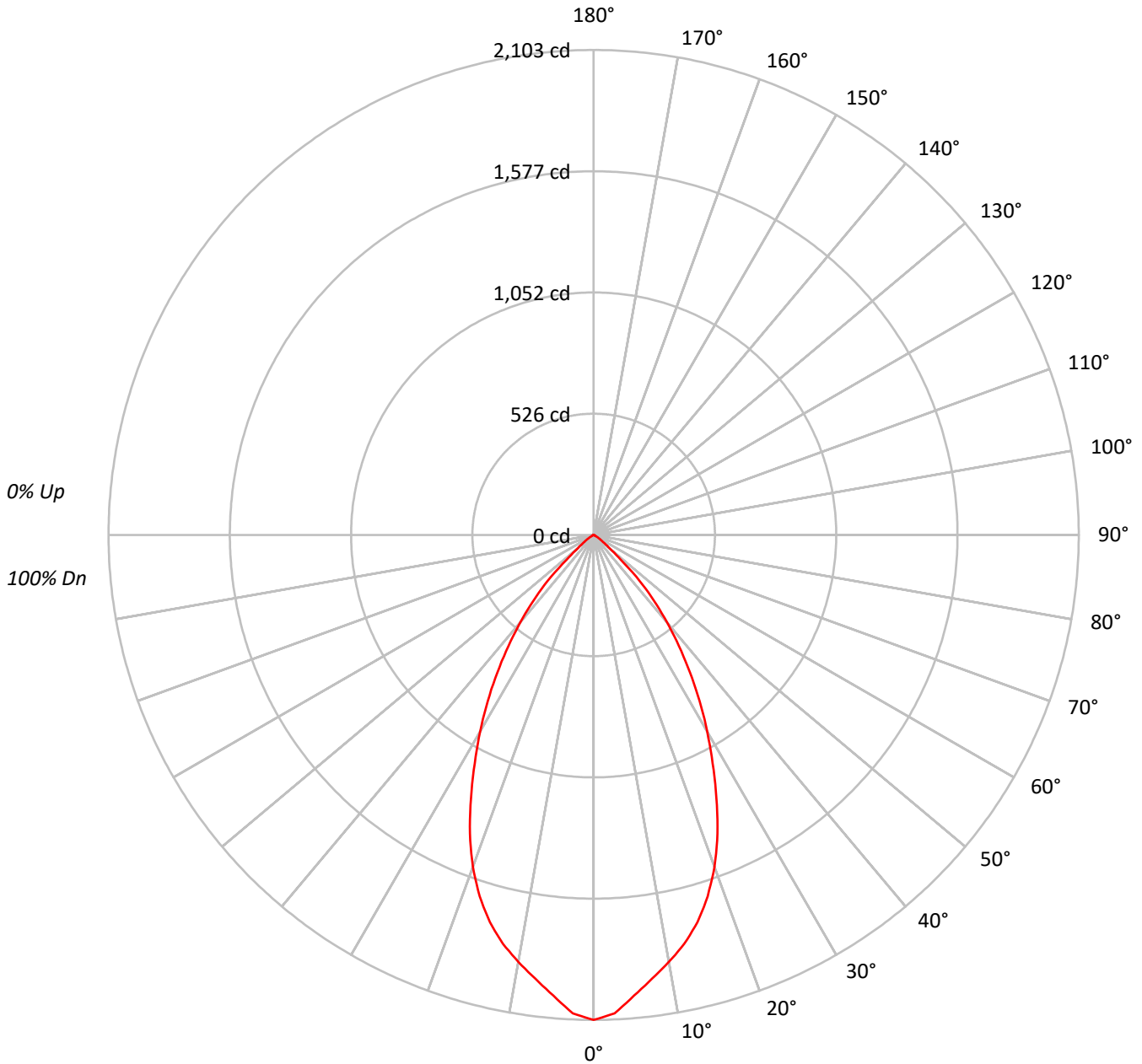
Lumens per Lamp: N/A
Luminaire Lumens: 1955.8 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	166013
5°	158937
10°	150706
15°	142088
20°	128674
25°	109687
30°	89640
35°	70051
40°	50855
45°	31594
50°	10856
55°	5106
60°	1958
65°	654
70°	415
75°	549
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31594 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	9.6
10°-20°	484.2	24.8
20°-30°	575.1	29.4
30°-40°	453.6	23.2
40°-50°	212.4	10.9
50°-60°	36.9	1.9
60°-70°	4.8	0.2
70°-80°	1.2	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°	1247.0	63.8
0°-40°	1700.6	86.9
0°-60°	1949.9	99.7
0°-90°	1955.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1955.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2103	
5°	2006	188
15°	1739	484
25°	1259	575
35°	727	454
45°	283	212
55°	37	37
65°	4	5
75°	2	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2103.0
2.5°	2076.4
5°	2005.7
7.5°	1940.3
10°	1880.1
12.5°	1816.4
15°	1738.6
17.5°	1643.1
20°	1531.7
22.5°	1402.6
25°	1259.3
27.5°	1116.0
30°	983.4
32.5°	854.3
35°	726.9
37.5°	606.7
40°	493.5
42.5°	387.3
45°	283.0
47.5°	159.2
50°	88.4
52.5°	56.6
55°	37.1
57.5°	23.0
60°	12.4
62.5°	7.1
65°	3.5
67.5°	1.8
70°	1.8
72.5°	1.8
75°	1.8
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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