

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: P643816

Luminaire Tested: ML5615LSWFL559FS1E - 593SNB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643816
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 - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

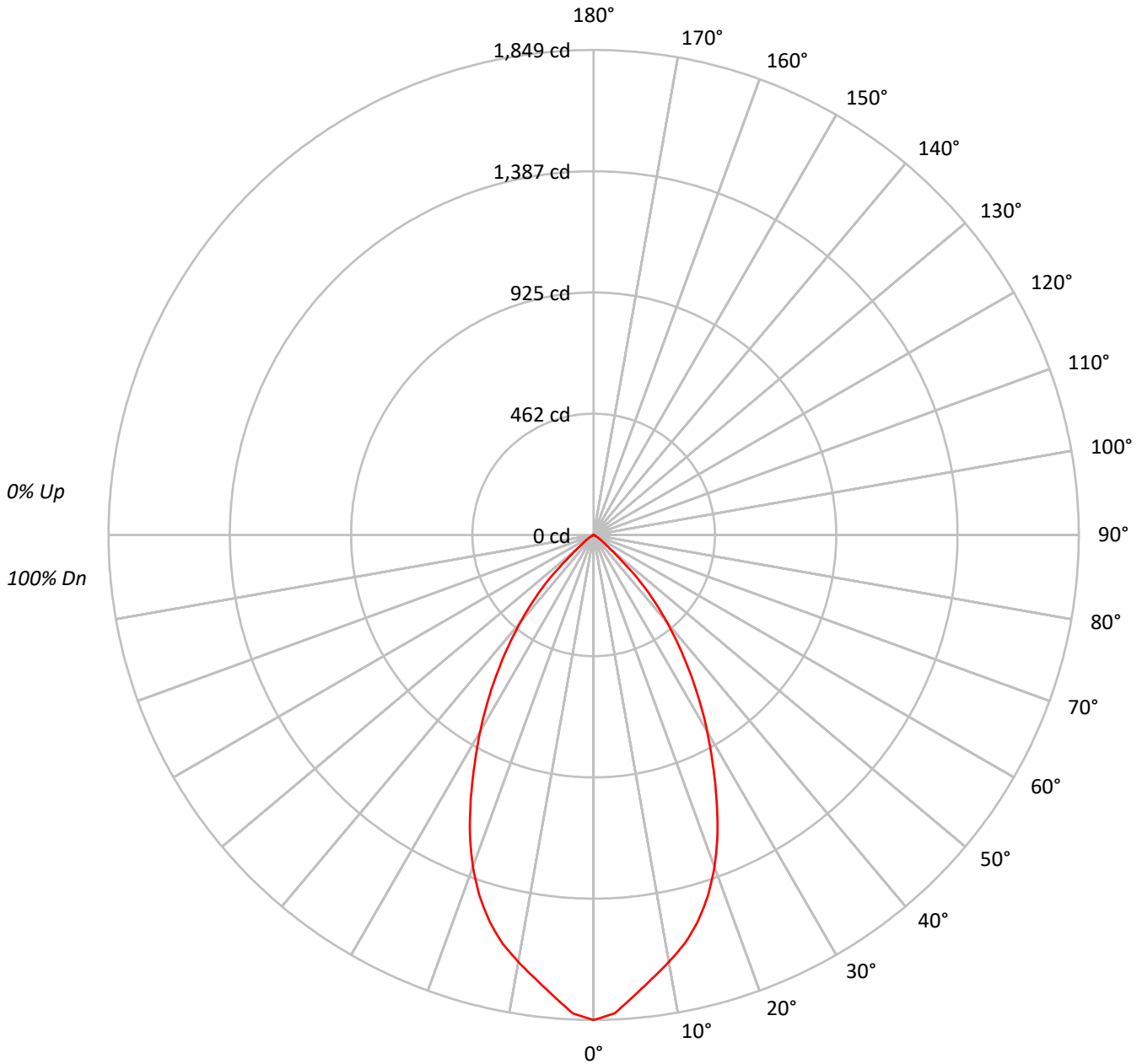
Lumens per Lamp: N/A
Luminaire Lumens: 1719.8 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P643816
CATALOG NUMBER: ML5615LSWFL559FS1E - 593SNB - 1500LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P643816

CATALOG NUMBER: ML5615LSWFL559FS1E - 593SNB - 1500LM - 2700K

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°	145978
5°	139752
10°	132518
15°	124942
20°	113141
25°	96448
30°	78820
35°	61599
40°	44713
45°	27776
50°	9555
55°	4500
60°	1721
65°	579
70°	369
75°	488
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27776 cd/sqm



TEST NUMBER: P643816

CATALOG NUMBER: ML5615LSWFL559FS1E - 593SNB - 1500LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	9.6
10°-20°	425.8	24.8
20°-30°	505.7	29.4
30°-40°	398.8	23.2
40°-50°	186.8	10.9
50°-60°	32.4	1.9
60°-70°	4.2	0.2
70°-80°	1.0	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°	1096.5	63.8
0°-40°	1495.3	86.9
0°-60°	1714.5	99.7
0°-90°	1719.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1719.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1849	
5°	1764	165
15°	1529	426
25°	1107	506
35°	639	399
45°	249	187
55°	33	32
65°	3	4
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P643816

CATALOG NUMBER: ML5615LSWFL559FS1E - 593SNB - 1500LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1849.2
2.5°	1825.8
5°	1763.6
7.5°	1706.1
10°	1653.2
12.5°	1597.2
15°	1528.8
17.5°	1444.8
20°	1346.8
22.5°	1233.3
25°	1107.3
27.5°	981.3
30°	864.7
32.5°	751.2
35°	639.2
37.5°	533.4
40°	433.9
42.5°	340.6
45°	248.8
47.5°	140.0
50°	77.8
52.5°	49.8
55°	32.7
57.5°	20.2
60°	10.9
62.5°	6.2
65°	3.1
67.5°	1.6
70°	1.6
72.5°	1.6
75°	1.6
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

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)