

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: P643458

Luminaire Tested: ML5615LSVWFL9FS1E - 593BB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-98)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 593BB - 1500LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1144.3 lumens
Efficiency: N/A
Efficacy: 66.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.11
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

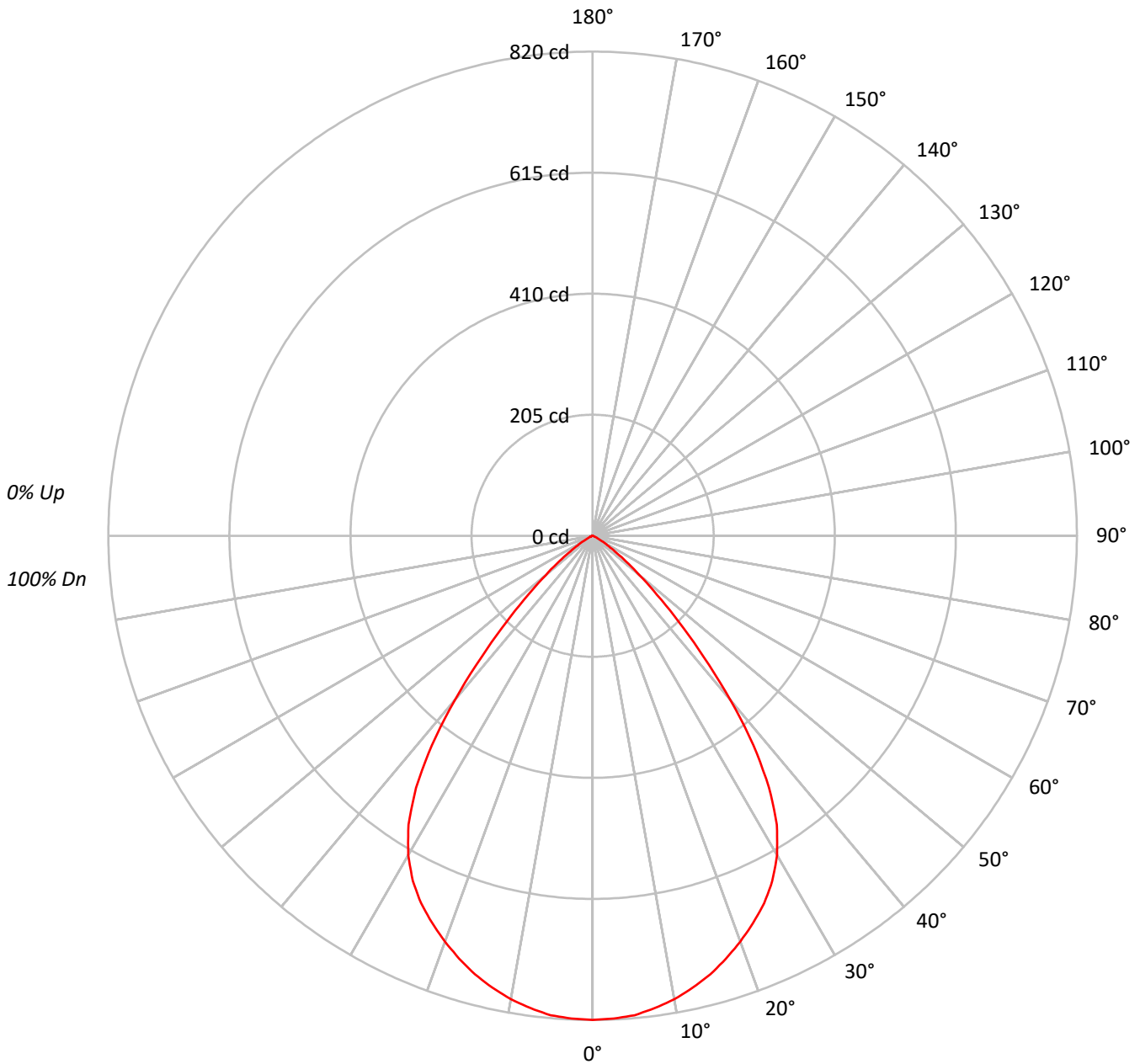
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643458

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593BB - 1500LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643458

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593BB - 1500LM - 3500K

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	107	104	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84																
3	100	93	87	82	98	91	86	82	88	84	80	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	75	72	78	74	71	69			69																
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63			63																
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58			58																
7	78	67	60	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53			53																
8	73	63	56	51	72	62	56	51	61	55	51	60	54	51	59	54	50	49			49																
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			45																
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			42																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44953
5°	44855
10°	44366
15°	43650
20°	42663
25°	41549
30°	39531
35°	34860
40°	25992
45°	15924
50°	8827
55°	4396
60°	1984
65°	636
70°	256
75°	339
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15924 cd/sqm



TEST NUMBER: P643458

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593BB - 1500LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.2	6.7
10°-20°	216.5	18.9
20°-30°	314.9	27.5
30°-40°	317.5	27.7
40°-50°	164.6	14.4
50°-60°	45.7	4.0
60°-70°	6.8	0.6
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°	608.6	53.2
0°-40°	926.0	80.9
0°-60°	1136.4	99.3
0°-90°	1144.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1144.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	820	
5°	815	77
15°	769	216
25°	687	315
35°	521	317
45°	205	165
55°	46	46
65°	5	7
75°	2	1
85°	0	0
90°	0	



TEST NUMBER: P643458

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593BB - 1500LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	820.0
2.5°	818.4
5°	815.1
7.5°	806.9
10°	797.0
12.5°	783.9
15°	769.1
17.5°	751.0
20°	731.3
22.5°	709.9
25°	686.9
27.5°	659.0
30°	624.5
32.5°	580.1
35°	520.9
37.5°	447.0
40°	363.2
42.5°	277.7
45°	205.4
47.5°	147.9
50°	103.5
52.5°	70.7
55°	46.0
57.5°	29.6
60°	18.1
62.5°	9.9
65°	4.9
67.5°	3.3
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)