

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: P643410

Luminaire Tested: ML5615LSVWFL9FS1E - 592H - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-95)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 592H - 1200LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" HAZE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

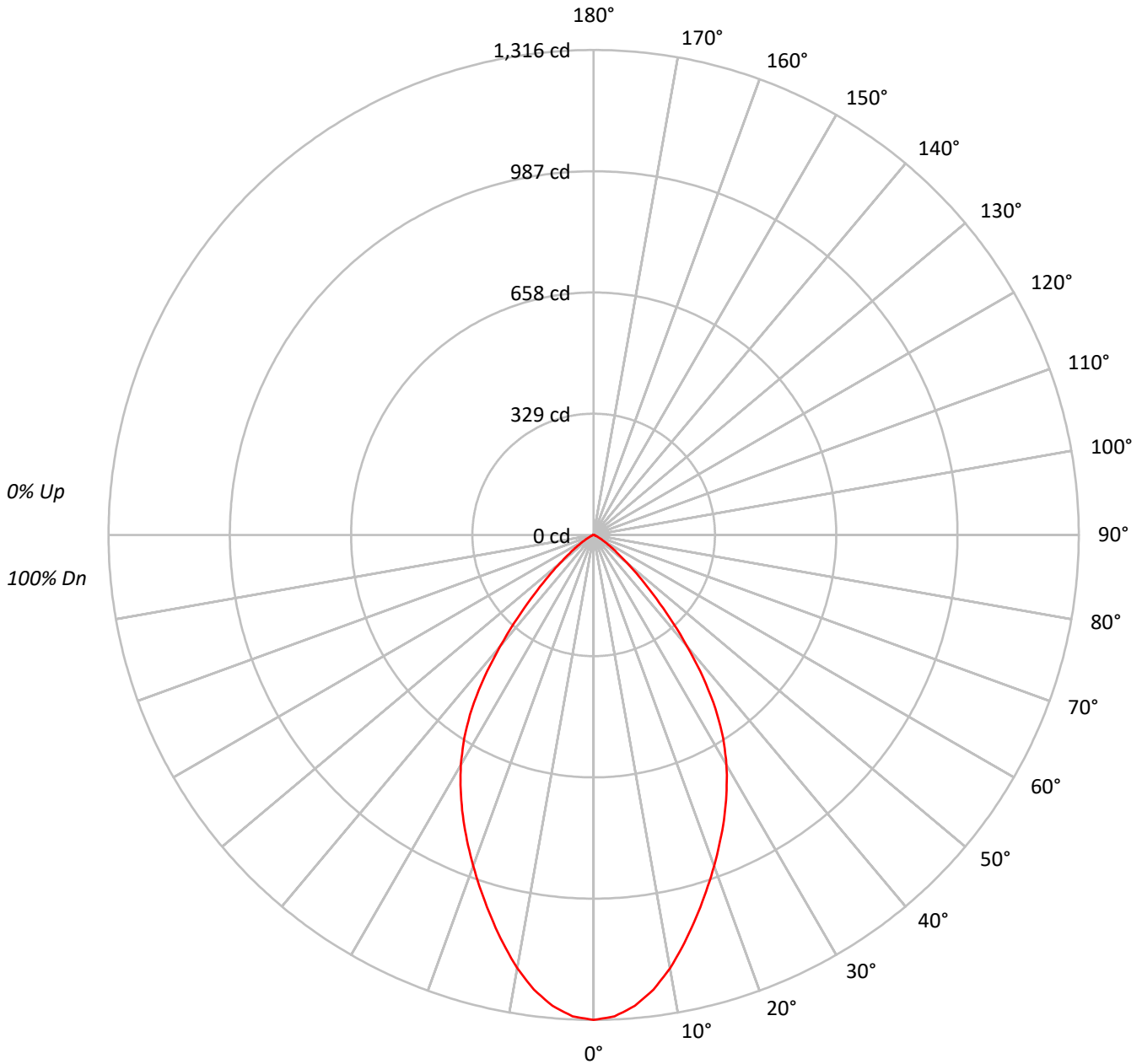
Lumens per Lamp: N/A
Luminaire Lumens: 1410.1 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.97
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
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: P643410
CATALOG NUMBER: ML5615LSVWFL9FS1E - 592H - 1200LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643410

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592H - 1200LM - 5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				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	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71	71	71	71
5	89	80	73	68	87	79	73	68	77	72	68	75	71	67	74	70	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60	60	60	60
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55	55	55	55
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51	51	51	51
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47	47	47	47
10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44	44	44	44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103894
5°	101668
10°	95693
15°	87806
20°	80235
25°	73165
30°	65685
35°	55586
40°	40612
45°	25376
50°	14479
55°	7914
60°	4089
65°	1887
70°	992
75°	427
80°	636
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25376 cd/sqm



TEST NUMBER: P643410

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592H - 1200LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	8.5
10°-20°	301.1	21.4
20°-30°	385.2	27.3
30°-40°	353.2	25.0
40°-50°	181.7	12.9
50°-60°	55.3	3.9
60°-70°	11.5	0.8
70°-80°	2.2	0.2
80°-90°	0.2	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°	805.9	57.2
0°-40°	1159.2	82.2
0°-60°	1396.2	99.0
0°-90°	1410.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1316	
5°	1283	120
15°	1074	301
25°	840	385
35°	577	353
45°	227	182
55°	58	55
65°	10	11
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P643410

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592H - 1200LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1316.1
2.5°	1307.5
5°	1283.0
7.5°	1244.2
10°	1193.8
12.5°	1134.8
15°	1074.4
17.5°	1014.0
20°	955.1
22.5°	897.5
25°	840.0
27.5°	781.0
30°	720.6
32.5°	653.0
35°	576.8
37.5°	487.6
40°	394.1
42.5°	304.9
45°	227.3
47.5°	165.4
50°	117.9
52.5°	82.0
55°	57.5
57.5°	38.8
60°	25.9
62.5°	15.8
65°	10.1
67.5°	5.8
70°	4.3
72.5°	2.9
75°	1.4
77.5°	1.4
80°	1.4
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)