

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: P641259

Luminaire Tested: ML5612LSVWFL7597FS1E - 592H - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-72)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 592H - 900LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

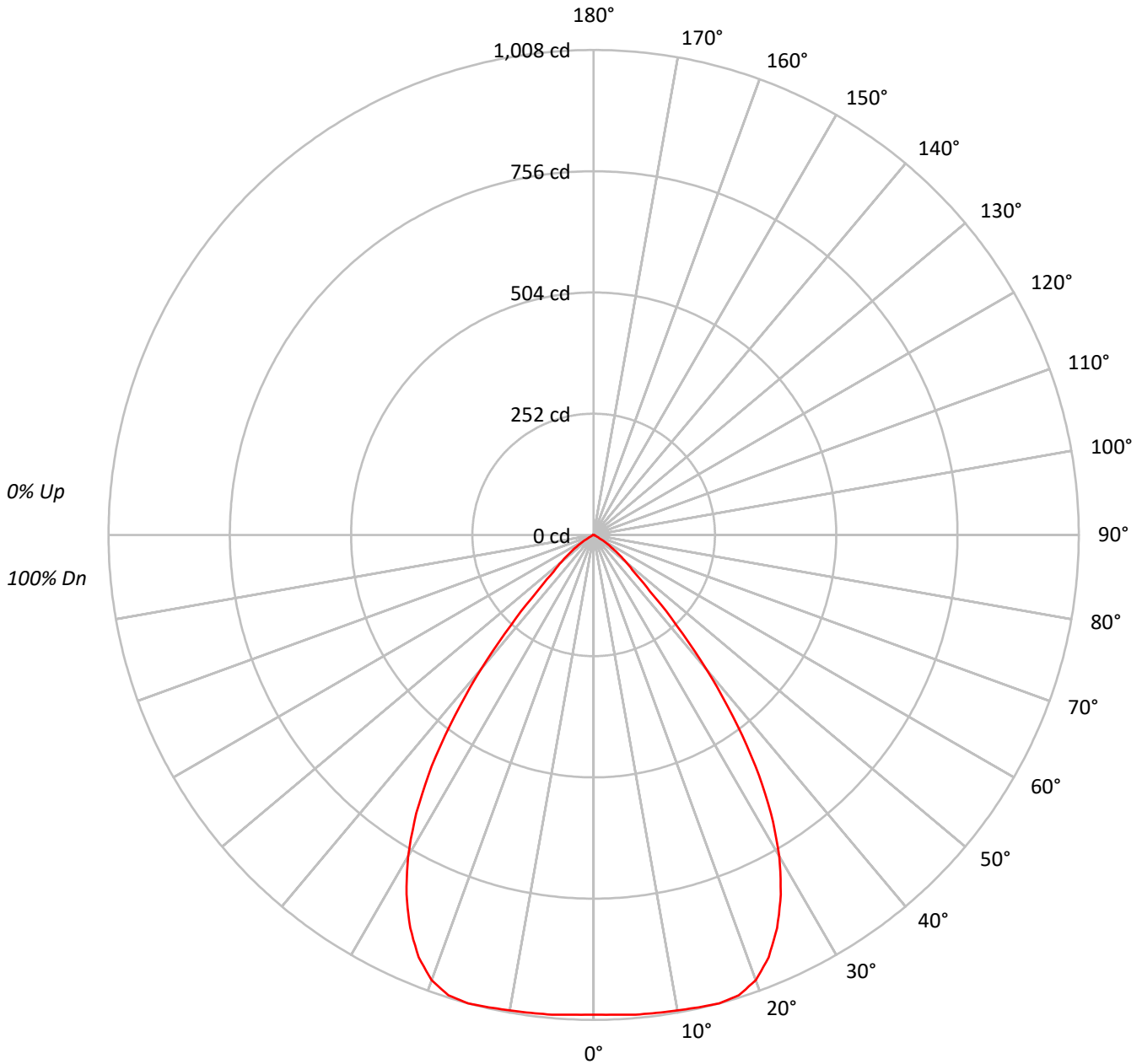
Lumens per Lamp: N/A
Luminaire Lumens: 1339.5 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.07
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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: P641259
CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592H - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641259

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592H - 900LM - 4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			93
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85			85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78
4	95	87	81	76	93	85	80	75	83	78	75	81	77	74	79	76	73	71			71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65			65
6	84	74	68	63	83	74	67	63	72	67	63	71	66	62	69	65	62	60			60
7	79	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55			55
8	75	65	58	54	74	64	58	53	63	57	53	62	57	53	61	56	53	51			51
9	71	60	54	50	70	60	54	50	59	53	49	58	53	49	57	52	49	48			48
10	67	57	50	46	66	56	50	46	55	50	46	55	49	46	54	49	46	44			44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	78712
5°	79306
10°	80423
15°	82396
20°	82722
25°	78531
30°	70316
35°	56530
40°	37448
45°	18409
50°	10807
55°	6317
60°	2147
65°	467
70°	277
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18409 cd/sqm



TEST NUMBER: P641259

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592H - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	7.1
10°-20°	284.1	21.2
20°-30°	410.4	30.6
30°-40°	358.3	26.7
40°-50°	144.0	10.7
50°-60°	42.2	3.2
60°-70°	4.5	0.3
70°-80°	0.5	0.0
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°	790.1	59.0
0°-40°	1148.3	85.7
0°-60°	1334.5	99.6
0°-90°	1339.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1339.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	997	
5°	1001	96
15°	1008	284
25°	902	410
35°	587	358
45°	165	144
55°	46	42
65°	2	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P641259

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592H - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	997.1
2.5°	998.3
5°	1000.8
7.5°	1002.0
10°	1003.3
12.5°	1005.8
15°	1008.2
17.5°	1003.3
20°	984.7
22.5°	949.9
25°	901.6
27.5°	842.1
30°	771.4
32.5°	685.8
35°	586.6
37.5°	473.7
40°	363.4
42.5°	255.5
45°	164.9
47.5°	112.9
50°	88.0
52.5°	64.5
55°	45.9
57.5°	29.8
60°	13.6
62.5°	7.4
65°	2.5
67.5°	1.2
70°	1.2
72.5°	1.2
75°	0.0
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

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)