

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: P641530

Luminaire Tested: ML5612LSVWFL7597FS1E - 693WB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-86)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 693WB - 900LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1348.7 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

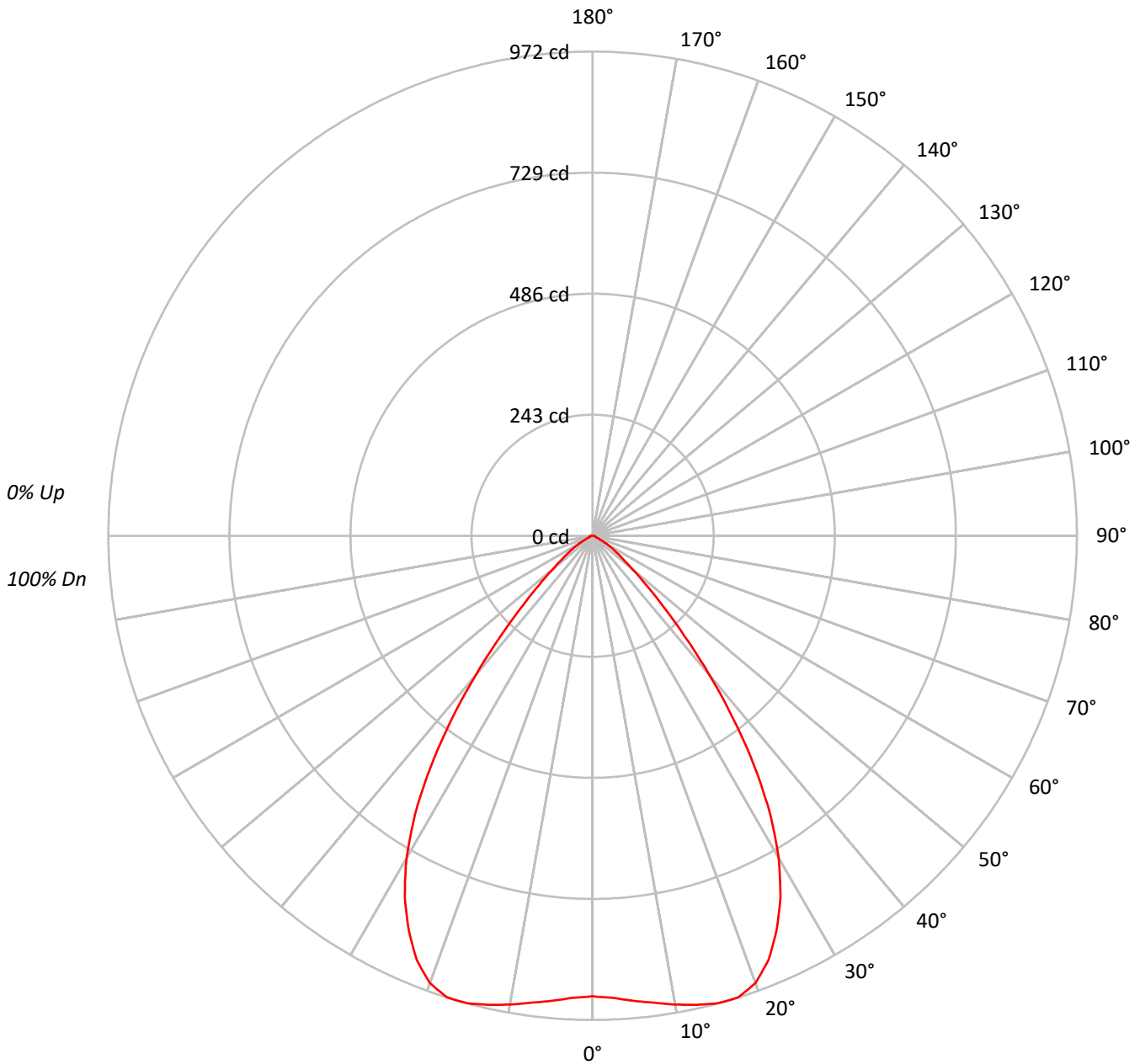
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641530

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P641530

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 900LM - 5000K

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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76		
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70		
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64		
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58		
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54		
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50		
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46		
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50681
5°	51563
10°	53194
15°	55148
20°	55748
25°	52848
30°	47292
35°	37952
40°	26113
45°	15397
50°	8887
55°	5572
60°	3399
65°	1608
70°	994
75°	1059
80°	1168
85°	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15397 cd/sqm



TEST NUMBER: P641530

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	6.7
10°-20°	273.9	20.3
20°-30°	398.0	29.5
30°-40°	349.0	25.9
40°-50°	161.8	12.0
50°-60°	54.9	4.1
60°-70°	13.7	1.0
70°-80°	5.6	0.4
80°-90°	1.8	0.1
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°	761.8	56.5
0°-40°	1110.8	82.4
0°-60°	1327.6	98.4
0°-90°	1348.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1348.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	924	
5°	937	90
15°	972	274
25°	874	398
35°	567	349
45°	199	162
55°	58	55
65°	12	14
75°	5	6
85°	1	2
90°	0	



TEST NUMBER: P641530

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	924.5
2.5°	928.3
5°	937.0
7.5°	945.6
10°	955.6
12.5°	964.3
15°	971.7
17.5°	971.7
20°	955.6
22.5°	922.1
25°	873.7
27.5°	816.6
30°	747.1
32.5°	663.9
35°	567.1
37.5°	465.4
40°	364.9
42.5°	273.0
45°	198.6
47.5°	144.0
50°	104.2
52.5°	76.9
55°	58.3
57.5°	44.7
60°	31.0
62.5°	17.4
65°	12.4
67.5°	7.4
70°	6.2
72.5°	6.2
75°	5.0
77.5°	5.0
80°	3.7
82.5°	2.5
85°	1.2
87.5°	1.2
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)