

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: P641405

Luminaire Tested: ML5612LSVWFL7597FS1E - 596WB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 596WB - 600LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1059.0 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.1
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

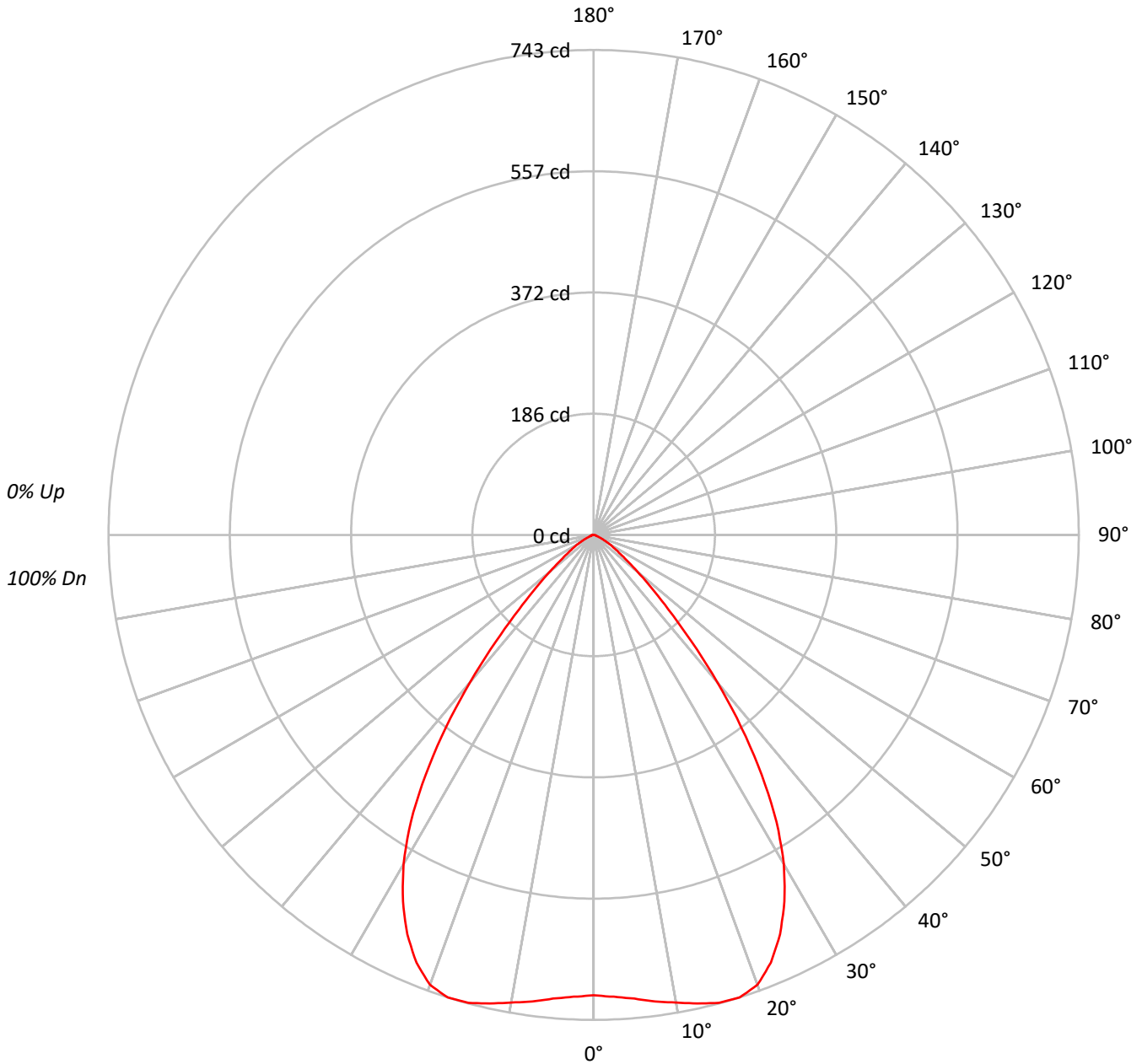
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641405

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 600LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P641405

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 600LM - 5000K

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																			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69																			
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58																			
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53																			
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49																			
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55677
5°	56508
10°	58323
15°	60649
20°	61611
25°	58820
30°	53097
35°	43260
40°	30307
45°	18041
50°	10697
55°	6524
60°	4436
65°	2522
70°	1339
75°	1190
80°	1318
85°	906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18041 cd/sqm



TEST NUMBER: P641405

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 600LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.6	6.5
10°-20°	209.3	19.8
20°-30°	307.5	29.0
30°-40°	276.0	26.1
40°-50°	131.9	12.5
50°-60°	45.4	4.3
60°-70°	14.6	1.4
70°-80°	4.2	0.4
80°-90°	1.5	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°	585.4	55.3
0°-40°	861.3	81.3
0°-60°	1038.7	98.1
0°-90°	1059.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	705	
5°	713	69
15°	742	209
25°	675	308
35°	449	276
45°	162	132
55°	47	45
65°	14	15
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P641405

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 600LM - 5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	705.3
2.5°	708.2
5°	713.1
7.5°	720.8
10°	727.6
12.5°	735.3
15°	742.1
17.5°	743.1
20°	733.4
22.5°	709.2
25°	675.3
27.5°	632.8
30°	582.5
32.5°	521.5
35°	448.9
37.5°	371.5
40°	294.1
42.5°	221.6
45°	161.6
47.5°	119.0
50°	87.1
52.5°	62.9
55°	47.4
57.5°	36.8
60°	28.1
62.5°	20.3
65°	13.5
67.5°	8.7
70°	5.8
72.5°	4.8
75°	3.9
77.5°	2.9
80°	2.9
82.5°	1.9
85°	1.0
87.5°	1.0
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)