

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: P641295

Luminaire Tested: ML5612LSVWFL7597FS1E - 593BB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-75)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 593BB - 1200LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 5" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1542.6 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

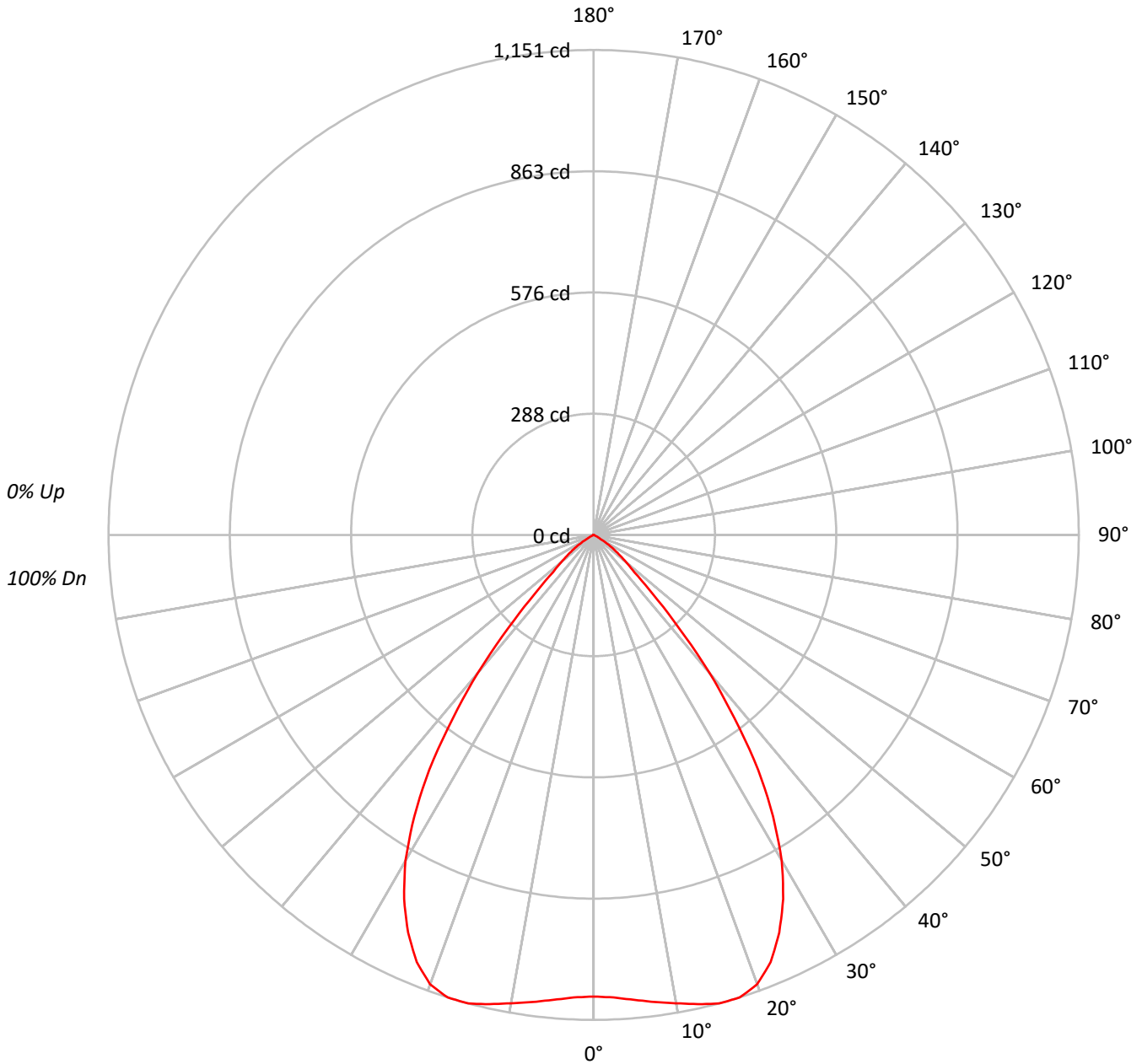
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641295

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593BB - 1200LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P641295

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593BB - 1200LM - 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	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	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85
3	101	94	88	84	99	92	87	83	90	85	82	87	83	81	85	82	79	78	78	78	78
4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71	71	71	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65	65	65	65
6	84	74	68	63	83	74	67	63	72	66	62	71	66	62	69	65	61	60	60	60	60
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57	55	55	55	55
8	75	64	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53	51	51	51	51
9	71	60	54	49	70	60	54	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°	86488
5°	87769
10°	90475
15°	94083
20°	95323
25°	90716
30°	81372
35°	65608
40°	43982
45°	21982
50°	12367
55°	7446
60°	2605
65°	280
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21982 cd/sqm



TEST NUMBER: P641295

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593BB - 1200LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	6.9
10°-20°	324.4	21.0
20°-30°	474.2	30.7
30°-40°	415.3	26.9
40°-50°	168.6	10.9
50°-60°	49.2	3.2
60°-70°	4.5	0.3
70°-80°	0.0	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°	904.9	58.7
0°-40°	1320.2	85.6
0°-60°	1538.0	99.7
0°-90°	1542.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1542.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1096	
5°	1108	106
15°	1151	324
25°	1042	474
35°	681	415
45°	197	169
55°	54	49
65°	2	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P641295

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 593BB - 1200LM - 5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1095.6
2.5°	1098.6
5°	1107.6
7.5°	1118.2
10°	1128.7
12.5°	1140.7
15°	1151.2
17.5°	1151.2
20°	1134.7
22.5°	1097.1
25°	1041.5
27.5°	973.9
30°	892.7
32.5°	792.0
35°	680.8
37.5°	548.6
40°	426.8
42.5°	297.6
45°	196.9
47.5°	130.8
50°	100.7
52.5°	75.1
55°	54.1
57.5°	34.6
60°	16.5
62.5°	9.0
65°	1.5
67.5°	0.0
70°	0.0
72.5°	0.0
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)