

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: P641523

Luminaire Tested: ML5612LSVWFL7597FS1E - 693WB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641523
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 - 600LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 976.7 lumens
Efficiency: N/A
Efficacy: 94.8 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

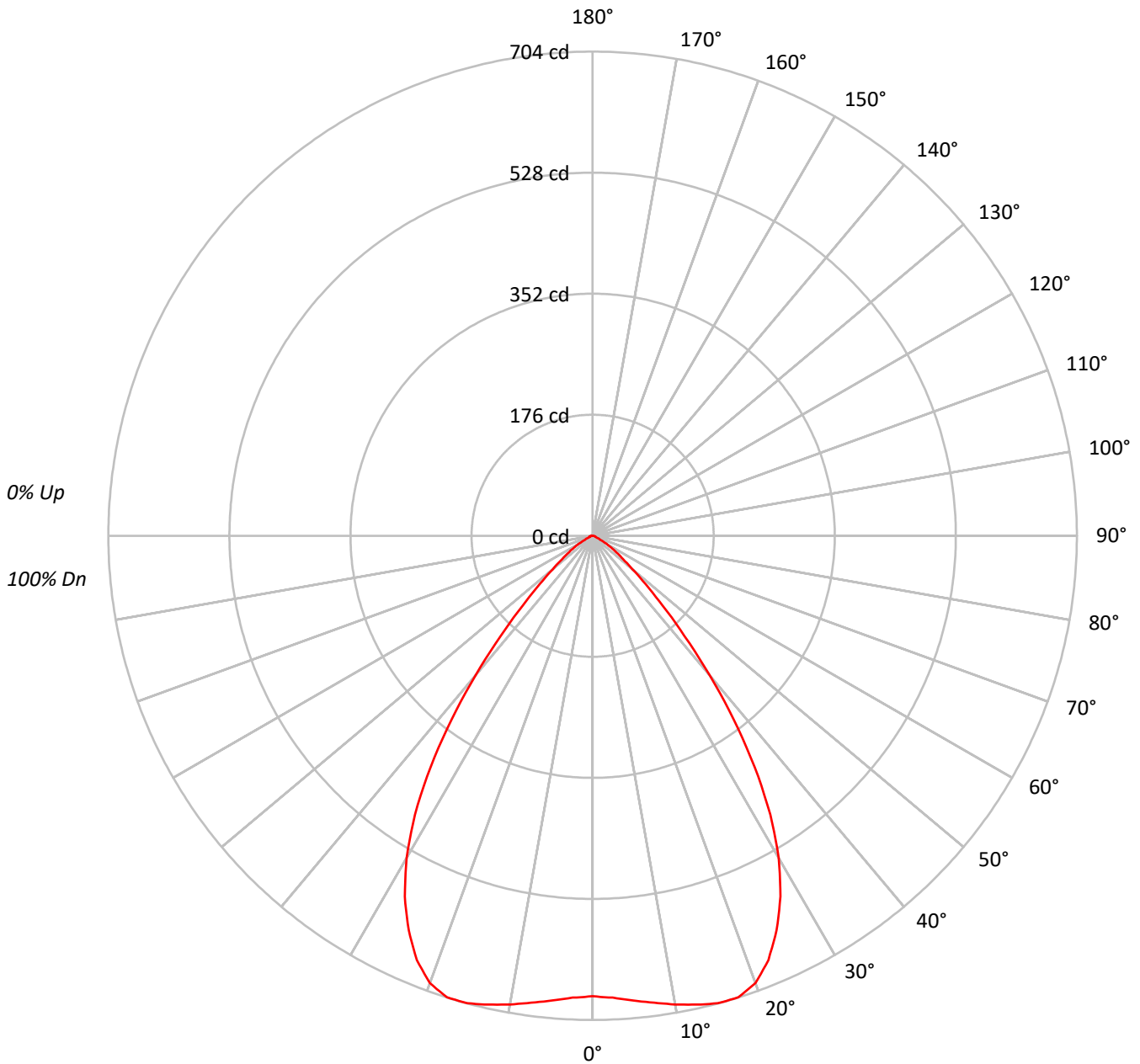
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641523

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 600LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641523

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 600LM - 3500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36702
5°	37338
10°	38521
15°	39938
20°	40370
25°	38270
30°	34246
35°	27485
40°	18907
45°	11148
50°	6439
55°	4033
60°	2467
65°	1167
70°	721
75°	763
80°	852
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11148 cd/sqm



TEST NUMBER: P641523

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 600LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	6.7
10°-20°	198.3	20.3
20°-30°	288.2	29.5
30°-40°	252.7	25.9
40°-50°	117.2	12.0
50°-60°	39.8	4.1
60°-70°	9.9	1.0
70°-80°	4.0	0.4
80°-90°	1.3	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°	551.7	56.5
0°-40°	804.4	82.4
0°-60°	961.4	98.4
0°-90°	976.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	976.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	670	
5°	678	65
15°	704	198
25°	633	288
35°	411	253
45°	144	117
55°	42	40
65°	9	10
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P641523

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 600LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	669.5
2.5°	672.2
5°	678.5
7.5°	684.8
10°	692.0
12.5°	698.3
15°	703.7
17.5°	703.7
20°	692.0
22.5°	667.7
25°	632.7
27.5°	591.3
30°	541.0
32.5°	480.8
35°	410.7
37.5°	337.0
40°	264.2
42.5°	197.7
45°	143.8
47.5°	104.2
50°	75.5
52.5°	55.7
55°	42.2
57.5°	32.4
60°	22.5
62.5°	12.6
65°	9.0
67.5°	5.4
70°	4.5
72.5°	4.5
75°	3.6
77.5°	3.6
80°	2.7
82.5°	1.8
85°	0.9
87.5°	0.9
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)