

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: P641524

Luminaire Tested: ML5612LSVWFL7597FS1E - 693WB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641524
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 - 4000K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1050.8 lumens
Efficiency: N/A
Efficacy: 102.0 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

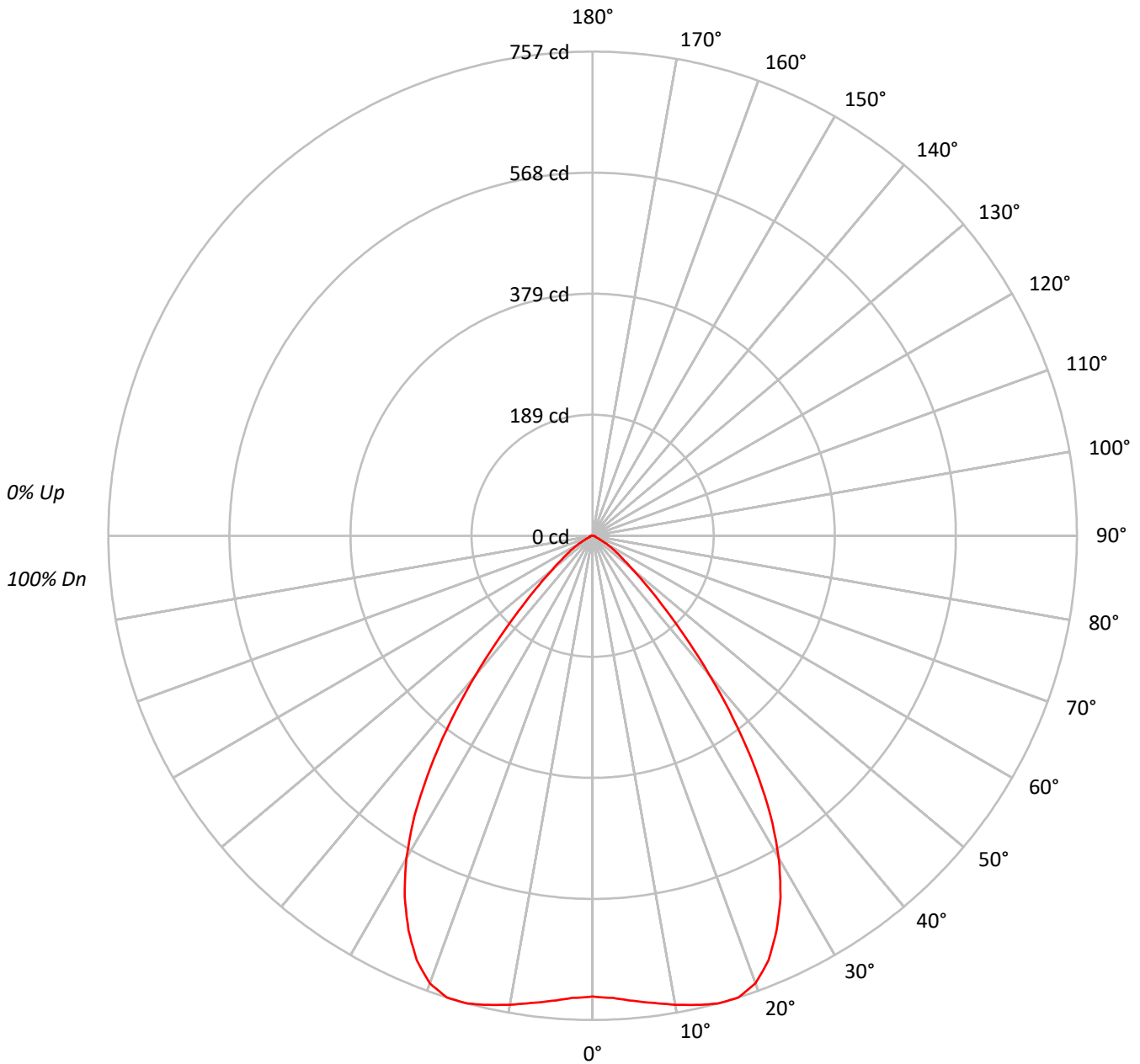
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641524

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 600LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641524

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 600LM - 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	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°	39492
5°	40172
10°	41443
15°	42968
20°	43433
25°	41174
30°	36847
35°	29573
40°	20345
45°	11993
50°	6925
55°	4339
60°	2653
65°	1258
70°	769
75°	826
80°	916
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11993 cd/sqm



TEST NUMBER: P641524

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 600LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	6.7
10°-20°	213.4	20.3
20°-30°	310.1	29.5
30°-40°	271.9	25.9
40°-50°	126.1	12.0
50°-60°	42.8	4.1
60°-70°	10.7	1.0
70°-80°	4.3	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°	593.6	56.5
0°-40°	865.5	82.4
0°-60°	1034.4	98.4
0°-90°	1050.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	720	
5°	730	70
15°	757	213
25°	681	310
35°	442	272
45°	155	126
55°	45	43
65°	10	11
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P641524

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 693WB - 600LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	720.4
2.5°	723.3
5°	730.0
7.5°	736.8
10°	744.5
12.5°	751.3
15°	757.1
17.5°	757.1
20°	744.5
22.5°	718.4
25°	680.7
27.5°	636.2
30°	582.1
32.5°	517.3
35°	441.9
37.5°	362.6
40°	284.3
42.5°	212.7
45°	154.7
47.5°	112.2
50°	81.2
52.5°	59.9
55°	45.4
57.5°	34.8
60°	24.2
62.5°	13.5
65°	9.7
67.5°	5.8
70°	4.8
72.5°	4.8
75°	3.9
77.5°	3.9
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)