

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: P641418

Luminaire Tested: ML5612LSVWFL7597FS1E - 691WB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-82)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 691WB - 600LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 982.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

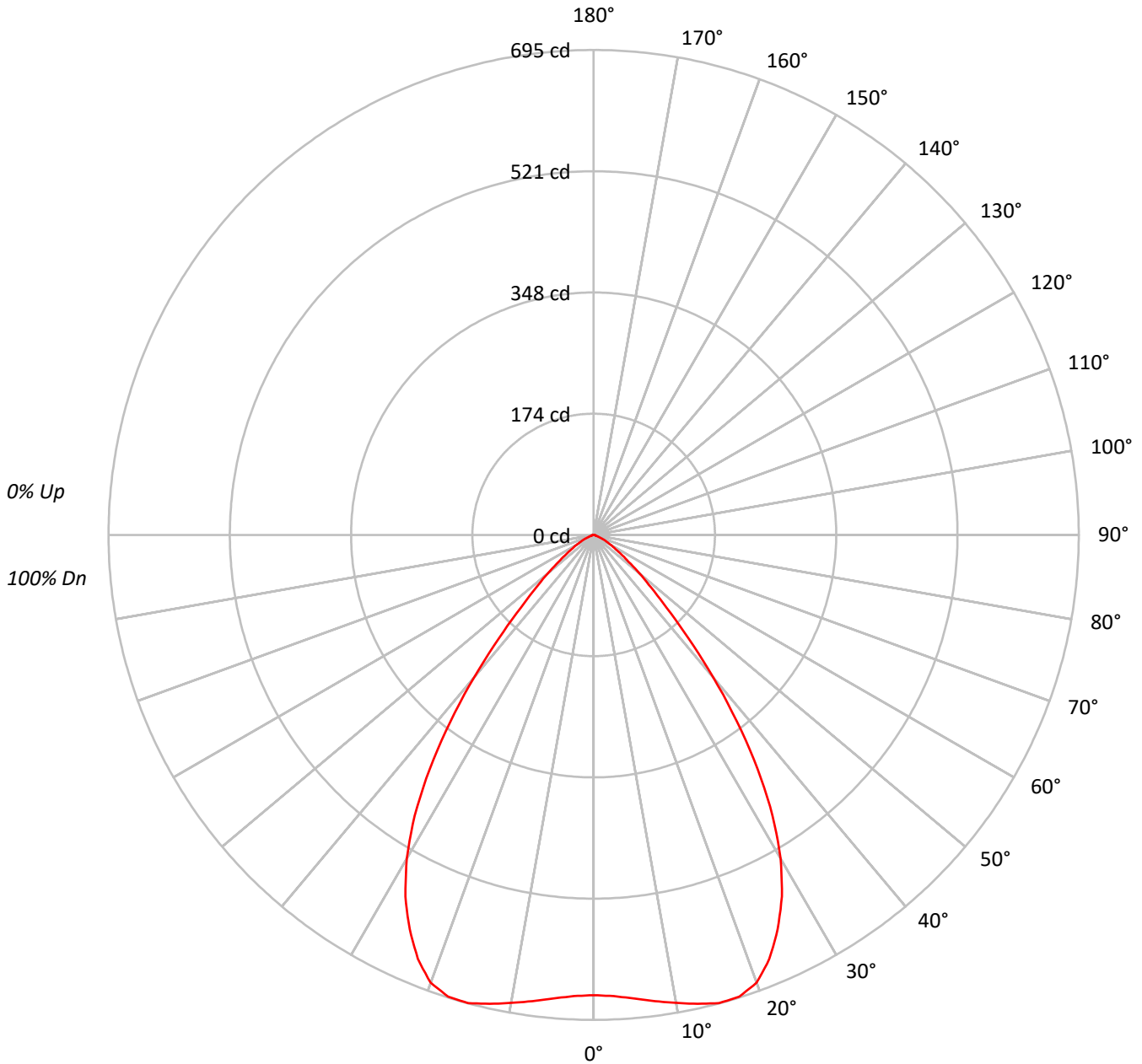
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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	99	100	98	96	96	95	94	92		
2	106	100	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	76	72	79	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	64	60	69	64	60	67	63	59	58		
7	78	67	61	56	76	67	60	56	65	59	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	58	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°	36159
5°	36694
10°	37914
15°	39421
20°	39839
25°	37720
30°	33904
35°	27425
40°	19036
45°	11428
50°	7283
55°	4549
60°	3059
65°	1985
70°	1010
75°	572
80°	568
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11428 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	6.5
10°-20°	195.6	19.9
20°-30°	284.4	29.0
30°-40°	251.8	25.6
40°-50°	121.0	12.3
50°-60°	45.1	4.6
60°-70°	15.5	1.6
70°-80°	3.4	0.4
80°-90°	1.2	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°	544.1	55.4
0°-40°	795.9	81.0
0°-60°	962.0	97.9
0°-90°	982.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	982.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	660	
5°	667	64
15°	695	196
25°	624	284
35°	410	252
45°	147	121
55°	48	45
65°	15	15
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	659.6
2.5°	661.4
5°	666.8
7.5°	673.9
10°	681.1
12.5°	688.3
15°	694.6
17.5°	693.7
20°	682.9
22.5°	657.8
25°	623.6
27.5°	584.1
30°	535.6
32.5°	477.2
35°	409.8
37.5°	337.0
40°	266.0
42.5°	200.4
45°	147.4
47.5°	111.4
50°	85.4
52.5°	62.9
55°	47.6
57.5°	35.9
60°	27.9
62.5°	21.6
65°	15.3
67.5°	9.0
70°	6.3
72.5°	3.6
75°	2.7
77.5°	2.7
80°	1.8
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

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— 0°-180°

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(END OF REPORT)