

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: P641236

Luminaire Tested: ML5612LSVWFL7597FS1E - 591WB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 591WB - 600LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 925.3 lumens
Efficiency: N/A
Efficacy: 89.8 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

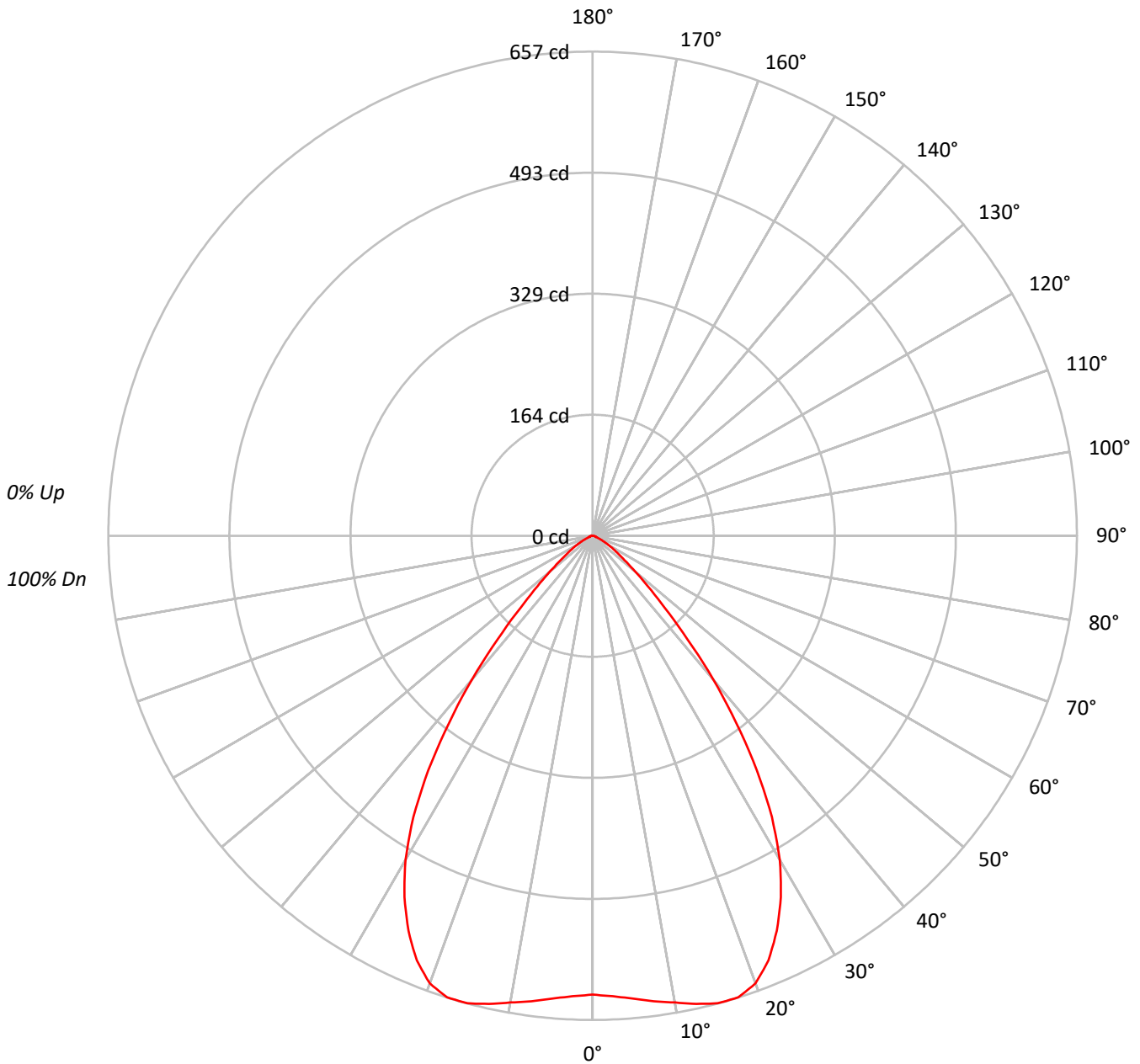
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	99	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	79	72	67	86	78	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	60	58																			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53																			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49																			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	34131
5°	34685
10°	35793
15°	37270
20°	37710
25°	35760
30°	32144
35°	26013
40°	18198
45°	10683
50°	6388
55°	3986
60°	2708
65°	1544
70°	817
75°	720
80°	821
85°	1069

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10683 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	6.5
10°-20°	185.0	20.0
20°-30°	269.4	29.1
30°-40°	239.0	25.8
40°-50°	113.1	12.2
50°-60°	39.6	4.3
60°-70°	12.9	1.4
70°-80°	3.9	0.4
80°-90°	1.8	0.2
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°	515.0	55.7
0°-40°	754.0	81.5
0°-60°	906.7	98.0
0°-90°	925.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	623	
5°	630	61
15°	657	185
25°	591	269
35°	389	239
45°	138	113
55°	42	40
65°	12	13
75°	3	4
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	622.6
2.5°	625.2
5°	630.3
7.5°	637.1
10°	643.0
12.5°	650.7
15°	656.7
17.5°	656.7
20°	646.4
22.5°	623.5
25°	591.2
27.5°	552.9
30°	507.8
32.5°	452.5
35°	388.7
37.5°	319.8
40°	254.3
42.5°	190.5
45°	137.8
47.5°	101.2
50°	74.9
52.5°	54.4
55°	41.7
57.5°	32.3
60°	24.7
62.5°	17.9
65°	11.9
67.5°	7.7
70°	5.1
72.5°	4.3
75°	3.4
77.5°	3.4
80°	2.6
82.5°	2.6
85°	1.7
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)