

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: P641239

Luminaire Tested: ML5612LSVWFL7597FS1E - 591WB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641239
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 - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1051.8 lumens
Efficiency: N/A
Efficacy: 102.1 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

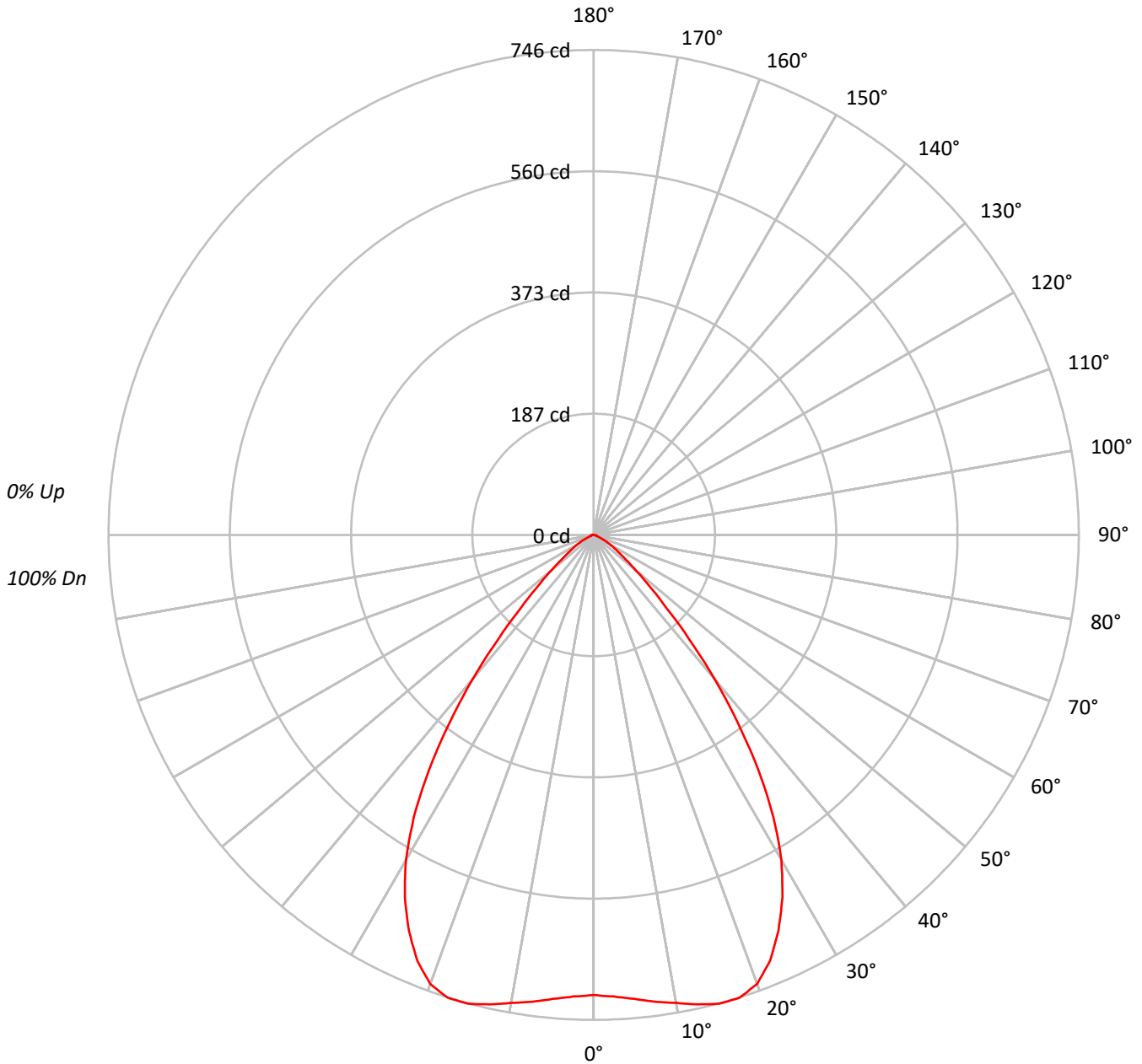
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	38802
5°	39429
10°	40692
15°	42367
20°	42873
25°	40648
30°	36544
35°	29573
40°	20689
45°	12149
50°	7258
55°	4530
60°	3070
65°	1751
70°	930
75°	826
80°	916
85°	1195

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12149 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	6.5
10°-20°	210.3	20.0
20°-30°	306.3	29.1
30°-40°	271.7	25.8
40°-50°	128.6	12.2
50°-60°	45.0	4.3
60°-70°	14.6	1.4
70°-80°	4.5	0.4
80°-90°	2.0	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°	585.4	55.7
0°-40°	857.2	81.5
0°-60°	1030.8	98.0
0°-90°	1051.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1051.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	708	
5°	716	69
15°	746	210
25°	672	306
35°	442	272
45°	157	129
55°	47	45
65°	14	15
75°	4	4
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	707.8
2.5°	710.7
5°	716.5
7.5°	724.3
10°	731.0
12.5°	739.7
15°	746.5
17.5°	746.5
20°	734.9
22.5°	708.8
25°	672.0
27.5°	628.5
30°	577.3
32.5°	514.4
35°	441.9
37.5°	363.6
40°	289.1
42.5°	216.6
45°	156.7
47.5°	115.1
50°	85.1
52.5°	61.9
55°	47.4
57.5°	36.7
60°	28.0
62.5°	20.3
65°	13.5
67.5°	8.7
70°	5.8
72.5°	4.8
75°	3.9
77.5°	3.9
80°	2.9
82.5°	2.9
85°	1.9
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

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— 0°-180°

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(END OF REPORT)