

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: P642106

Luminaire Tested: ML5612LSWFL5597FS1E - 691WB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 691WB - 600LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 961.9 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

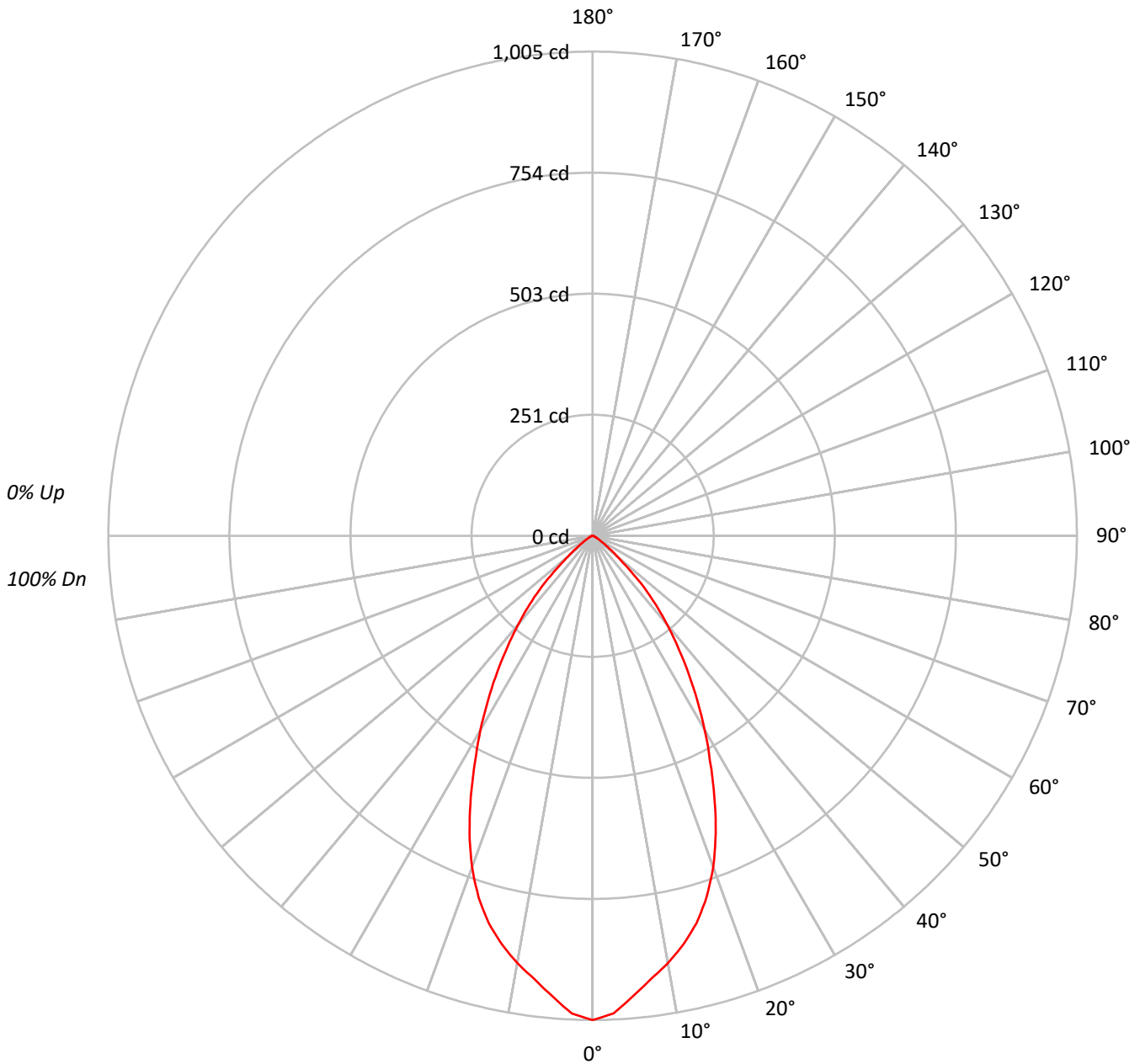
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93				
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78				
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72				
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66				
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61				
7	81	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57				
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	54	53				
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49				
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55105
5°	52790
10°	50133
15°	47253
20°	42715
25°	36165
30°	29448
35°	23048
40°	17161
45°	11536
50°	5586
55°	2762
60°	1403
65°	882
70°	417
75°	360
80°	284
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11536 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	9.3
10°-20°	231.8	24.1
20°-30°	273.1	28.4
30°-40°	215.5	22.4
40°-50°	113.1	11.8
50°-60°	28.9	3.0
60°-70°	6.9	0.7
70°-80°	1.8	0.2
80°-90°	0.9	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°	594.7	61.8
0°-40°	810.2	84.2
0°-60°	952.3	99.0
0°-90°	961.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1005	
5°	959	90
15°	833	232
25°	598	273
35°	344	216
45°	149	113
55°	29	29
65°	7	7
75°	2	2
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1005.2
2.5°	992.5
5°	959.3
7.5°	927.8
10°	900.6
12.5°	869.2
15°	832.6
17.5°	786.7
20°	732.2
22.5°	667.6
25°	597.9
27.5°	528.1
30°	465.2
32.5°	403.1
35°	344.4
37.5°	290.0
40°	239.8
42.5°	193.1
45°	148.8
47.5°	99.5
50°	65.5
52.5°	44.2
55°	28.9
57.5°	18.7
60°	12.8
62.5°	9.4
65°	6.8
67.5°	4.3
70°	2.6
72.5°	1.7
75°	1.7
77.5°	1.7
80°	0.9
82.5°	0.9
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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