

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: P642091

Luminaire Tested: ML5612LSWFL5597FS1E - 596WB - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 596WB - 600LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 978.1 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

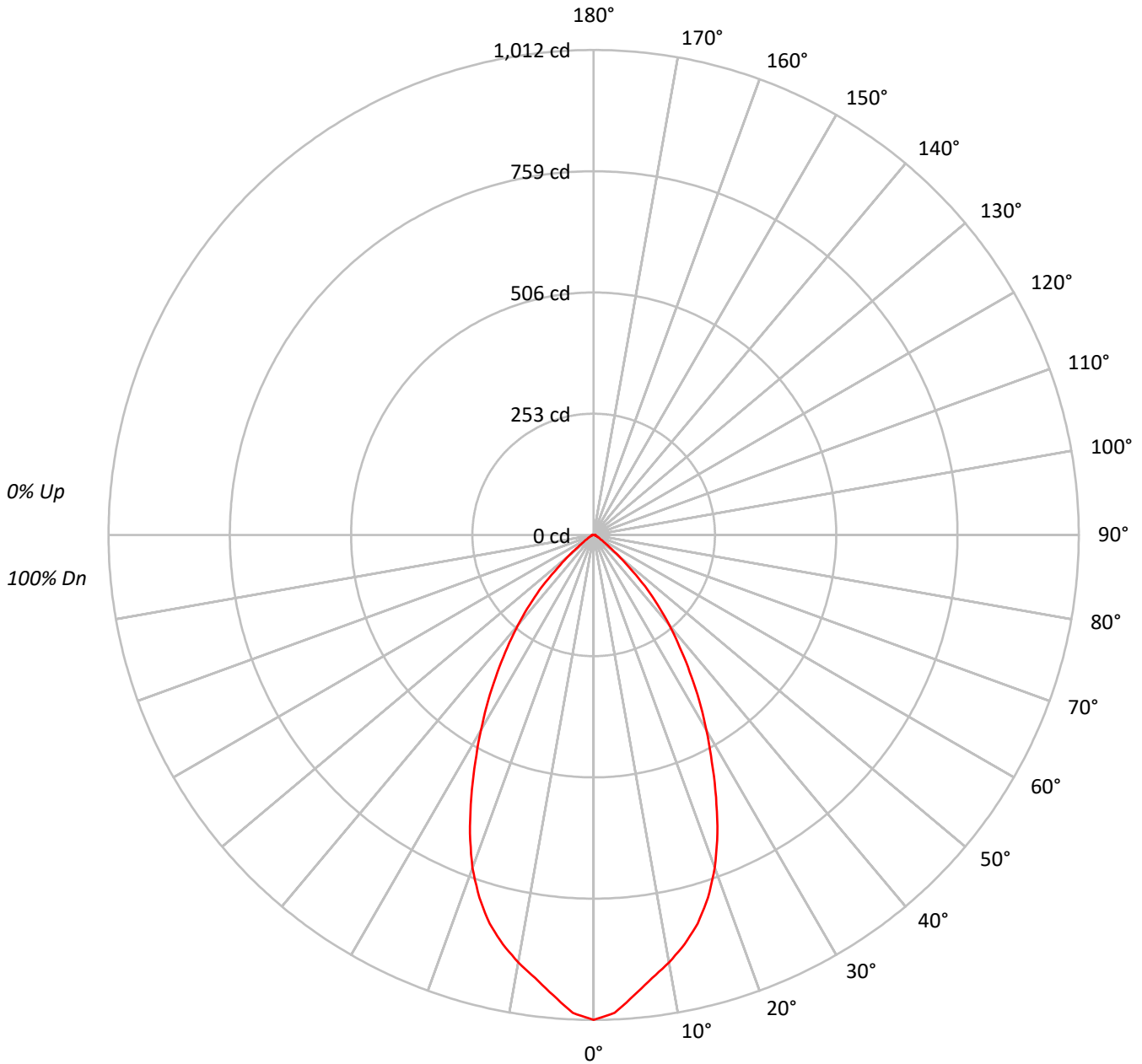
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				100															
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85				85															
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78				78															
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72				72															
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				66															
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61				61															
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57				57															
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53				53															
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49				49															
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46				46															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	79888
5°	76421
10°	72600
15°	68592
20°	62081
25°	52592
30°	42869
35°	33681
40°	25330
45°	16902
50°	8142
55°	3633
60°	2289
65°	1588
70°	1177
75°	793
80°	1546
85°	2355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16902 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	9.2
10°-20°	233.6	23.9
20°-30°	276.0	28.2
30°-40°	218.9	22.4
40°-50°	115.4	11.8
50°-60°	28.1	2.9
60°-70°	8.9	0.9
70°-80°	4.1	0.4
80°-90°	2.8	0.3
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°	599.8	61.3
0°-40°	818.8	83.7
0°-60°	962.2	98.4
0°-90°	978.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	978.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1012	
5°	964	90
15°	839	234
25°	604	276
35°	350	219
45°	151	115
55°	26	28
65°	8	9
75°	3	4
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1012.0
2.5°	998.4
5°	964.4
7.5°	932.9
10°	905.7
12.5°	875.1
15°	839.3
17.5°	793.4
20°	739.0
22.5°	674.4
25°	603.8
27.5°	534.1
30°	470.3
32.5°	409.0
35°	349.5
37.5°	295.1
40°	245.8
42.5°	197.3
45°	151.4
47.5°	101.2
50°	66.3
52.5°	41.7
55°	26.4
57.5°	18.7
60°	14.5
62.5°	11.1
65°	8.5
67.5°	6.8
70°	5.1
72.5°	4.3
75°	2.6
77.5°	4.3
80°	3.4
82.5°	3.4
85°	2.6
87.5°	2.6
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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