

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: P642198

Luminaire Tested: ML5612LSWFL5597FS1E - 693TBZB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-66)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 693TBZB - 600LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 996.4 lumens
Efficiency: N/A
Efficacy: 96.7 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

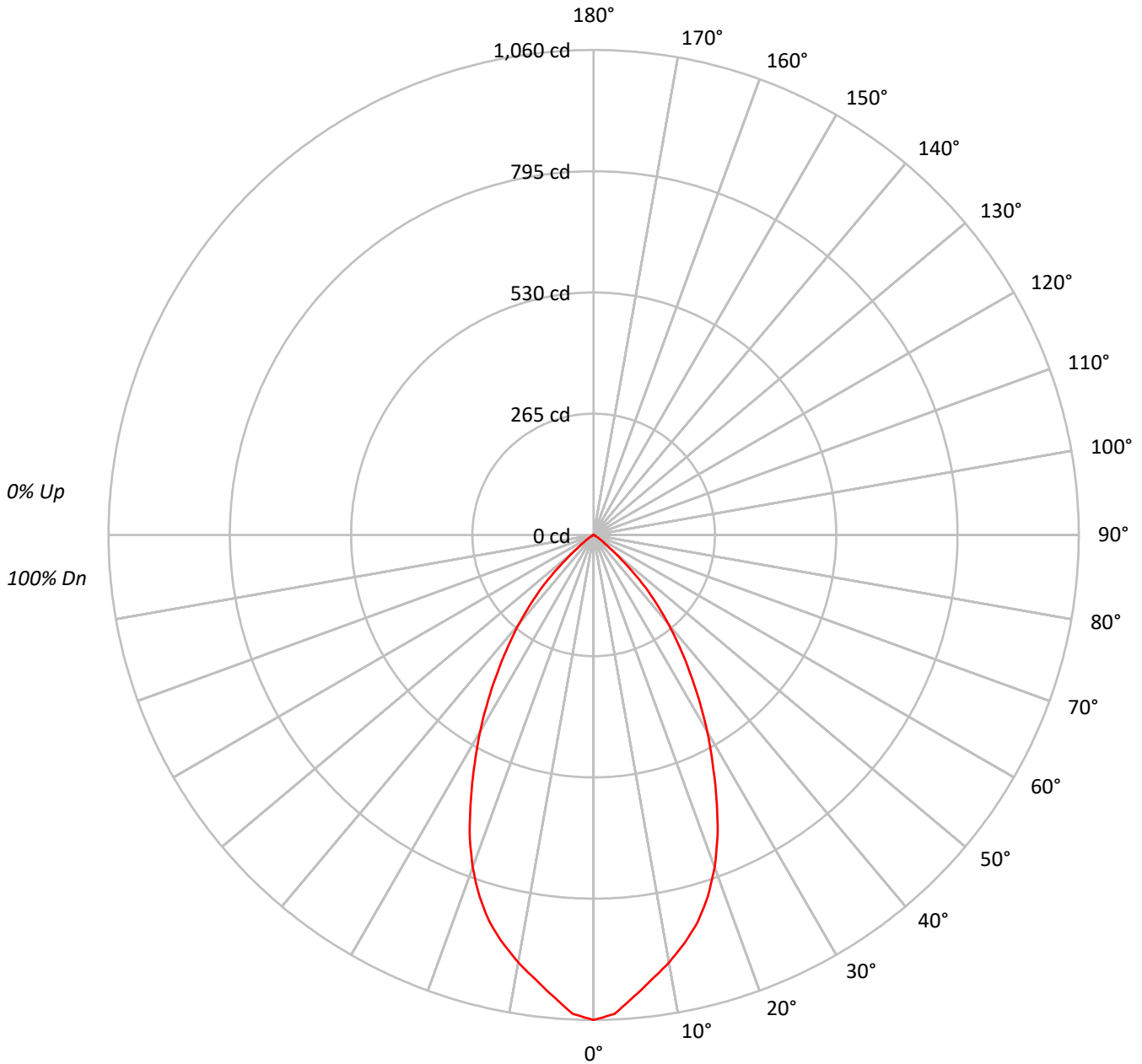
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86			
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73			
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58			
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54			
9	73	63	57	52	72	62	56	52	61	56	52	60	56	52	60	55	52	50			
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	58120
5°	55723
10°	52816
15°	49768
20°	45078
25°	38373
30°	31397
35°	24474
40°	18134
45°	11769
50°	4904
55°	1806
60°	789
65°	233
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11769 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	9.5
10°-20°	244.2	24.5
20°-30°	290.0	29.1
30°-40°	229.0	23.0
40°-50°	115.3	11.6
50°-60°	20.8	2.1
60°-70°	2.4	0.2
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	628.9	63.1
0°-40°	857.9	86.1
0°-60°	994.0	99.8
0°-90°	996.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	996.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1060	
5°	1013	95
15°	877	244
25°	634	290
35°	366	229
45°	152	115
55°	19	21
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1060.2
2.5°	1047.7
5°	1012.6
7.5°	979.4
10°	948.8
12.5°	914.7
15°	876.9
17.5°	829.3
20°	772.7
22.5°	708.0
25°	634.4
27.5°	562.5
30°	496.0
32.5°	429.5
35°	365.7
37.5°	307.3
40°	253.4
42.5°	201.3
45°	151.8
47.5°	97.9
50°	57.5
52.5°	30.5
55°	18.9
57.5°	12.6
60°	7.2
62.5°	3.6
65°	1.8
67.5°	0.9
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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