

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: P641504

Luminaire Tested: ML5612LSVWFL7597FS1E - 693TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641504
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-89)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 693TBZB - 1200LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1588.6 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

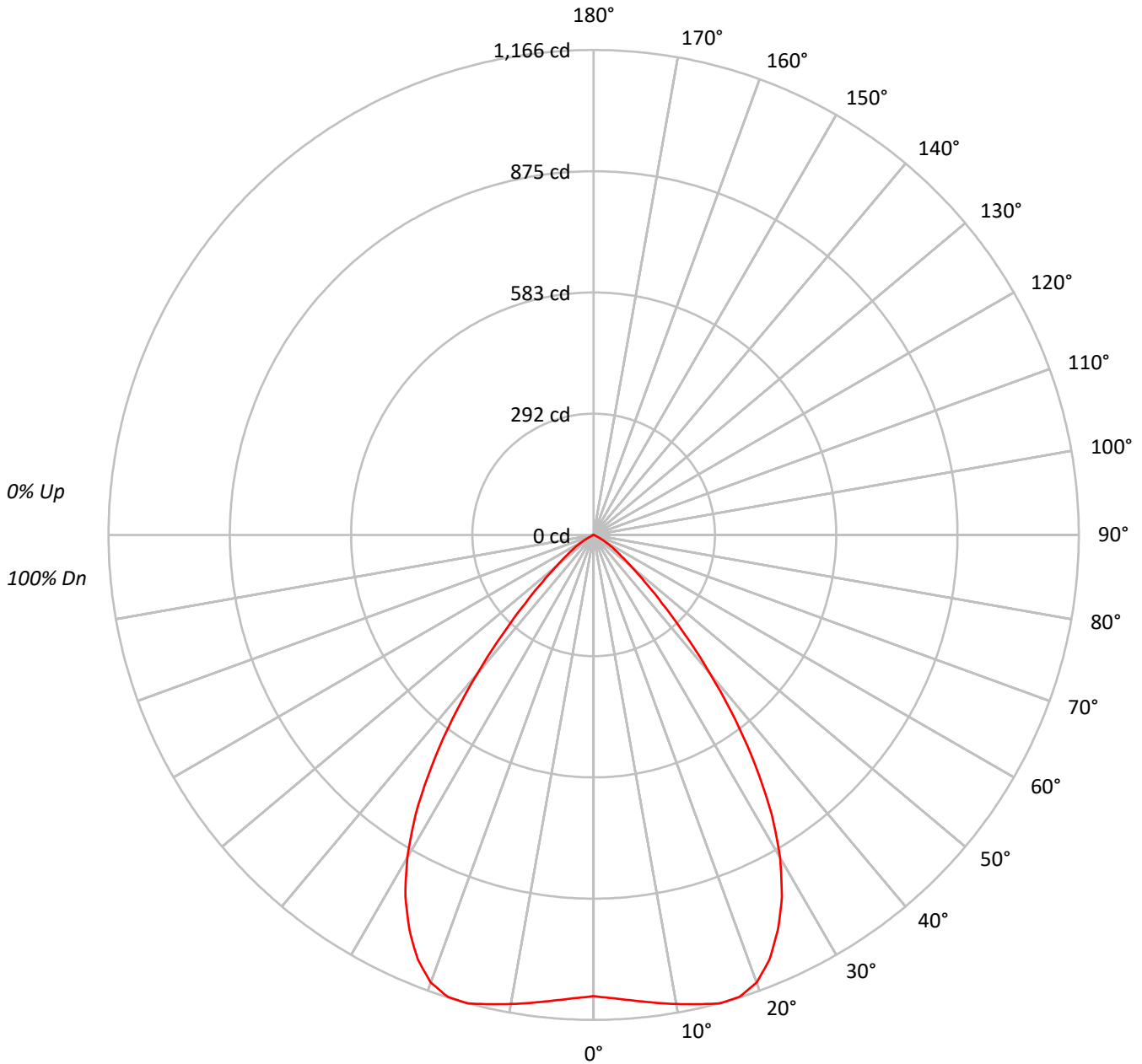
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	99	95	92	96	93	90	93	90	88	90	88	86	84						84													
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77						77													
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70						70													
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65						65													
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59						59													
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55						55													
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50						50													
9	70	60	53	49	69	59	53	49	58	52	48	57	52	48	56	52	48	47						47													
10	67	56	49	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43						43													

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60801
5°	61859
10°	63749
15°	66187
20°	66809
25°	63361
30°	56699
35°	45461
40°	31080
45°	18056
50°	9995
55°	6031
60°	3136
65°	778
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18056 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	6.8
10°-20°	328.3	20.7
20°-30°	477.1	30.0
30°-40°	418.1	26.3
40°-50°	189.7	11.9
50°-60°	58.8	3.7
60°-70°	8.6	0.5
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°	913.4	57.5
0°-40°	1331.5	83.8
0°-60°	1580.0	99.5
0°-90°	1588.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1588.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1109	
5°	1124	108
15°	1166	328
25°	1048	477
35°	679	418
45°	233	190
55°	63	59
65°	6	9
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1109.1
2.5°	1115.1
5°	1124.1
7.5°	1134.6
10°	1145.2
12.5°	1155.7
15°	1166.2
17.5°	1164.7
20°	1145.2
22.5°	1104.6
25°	1047.5
27.5°	979.9
30°	895.7
32.5°	796.5
35°	679.3
37.5°	557.6
40°	434.3
42.5°	323.1
45°	232.9
47.5°	165.3
50°	117.2
52.5°	84.2
55°	63.1
57.5°	45.1
60°	28.6
62.5°	13.5
65°	6.0
67.5°	1.5
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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(END OF REPORT)