

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: P641188

Luminaire Tested: ML5612LSNFL2597FS1E - 694TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 694TBZB - 1200LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1525.3 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

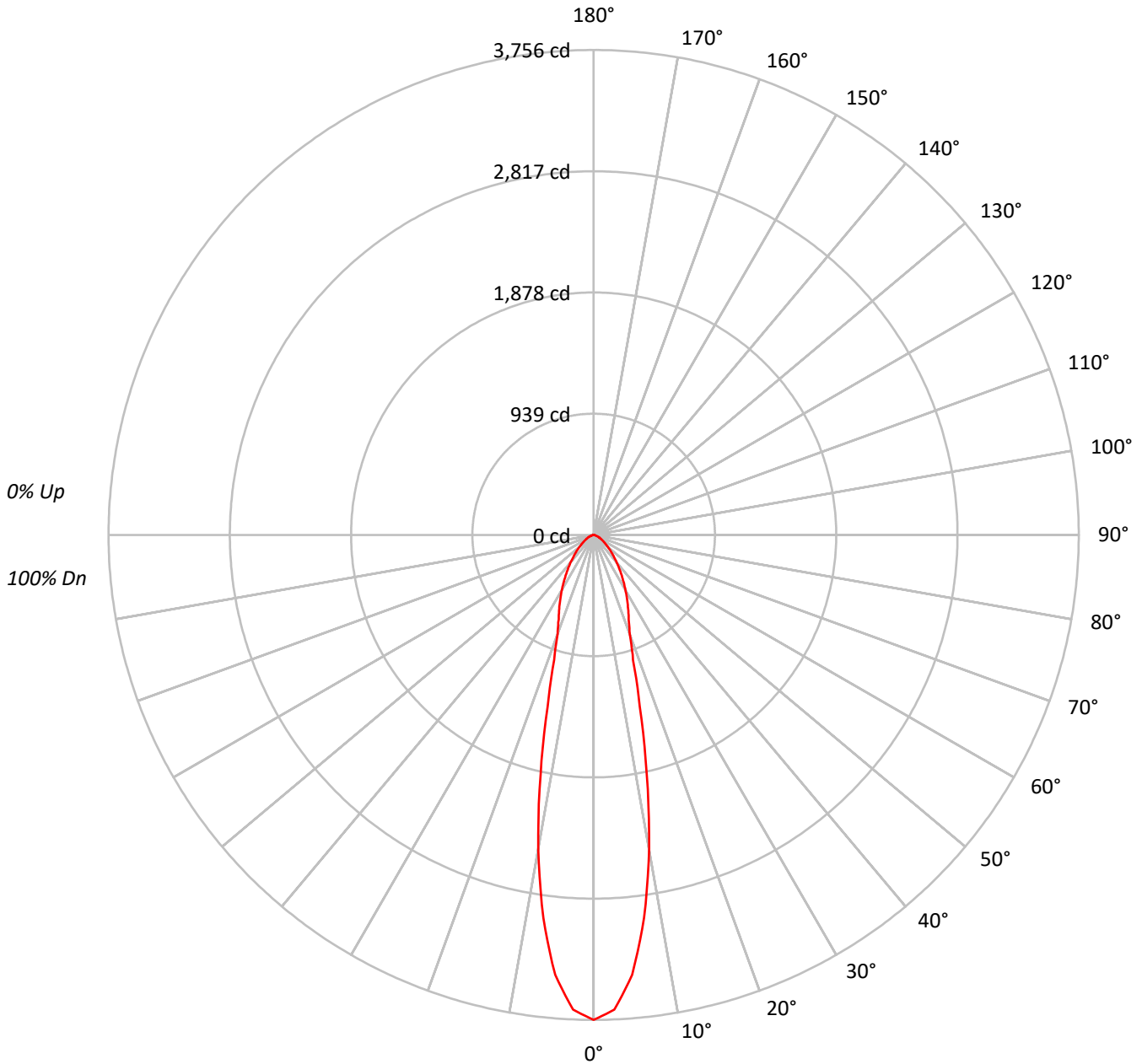
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	95	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	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73			
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68			
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60			
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57			
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54			
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	205910
5°	188185
10°	137450
15°	77952
20°	47557
25°	38161
30°	31100
35°	24942
40°	19780
45°	15474
50°	12025
55°	9472
60°	7499
65°	6161
70°	4472
75°	2669
80°	1326
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15474 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.4	19.4
10°-20°	395.6	25.9
20°-30°	291.2	19.1
30°-40°	234.3	15.4
40°-50°	155.7	10.2
50°-60°	90.2	5.9
60°-70°	47.4	3.1
70°-80°	14.1	0.9
80°-90°	1.3	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°	982.2	64.4
0°-40°	1216.5	79.8
0°-60°	1462.4	95.9
0°-90°	1525.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3756	
5°	3420	295
15°	1374	396
25°	631	291
35°	373	234
45°	200	156
55°	99	90
65°	48	47
75°	13	14
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3756.1
2.5°	3680.7
5°	3419.7
7.5°	2991.2
10°	2469.2
12.5°	1898.3
15°	1373.5
17.5°	1014.8
20°	815.2
22.5°	709.1
25°	630.9
27.5°	559.7
30°	491.3
32.5°	429.9
35°	372.7
37.5°	322.4
40°	276.4
42.5°	234.5
45°	199.6
47.5°	168.9
50°	141.0
52.5°	118.6
55°	99.1
57.5°	82.4
60°	68.4
62.5°	57.2
65°	47.5
67.5°	39.1
70°	27.9
72.5°	18.1
75°	12.6
77.5°	7.0
80°	4.2
82.5°	2.8
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)