

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: P641190

Luminaire Tested: ML5612LSNFL2597FS1E - 694TBZB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641190
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 - 5000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1641.7 lumens
Efficiency: N/A
Efficacy: 99.5 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

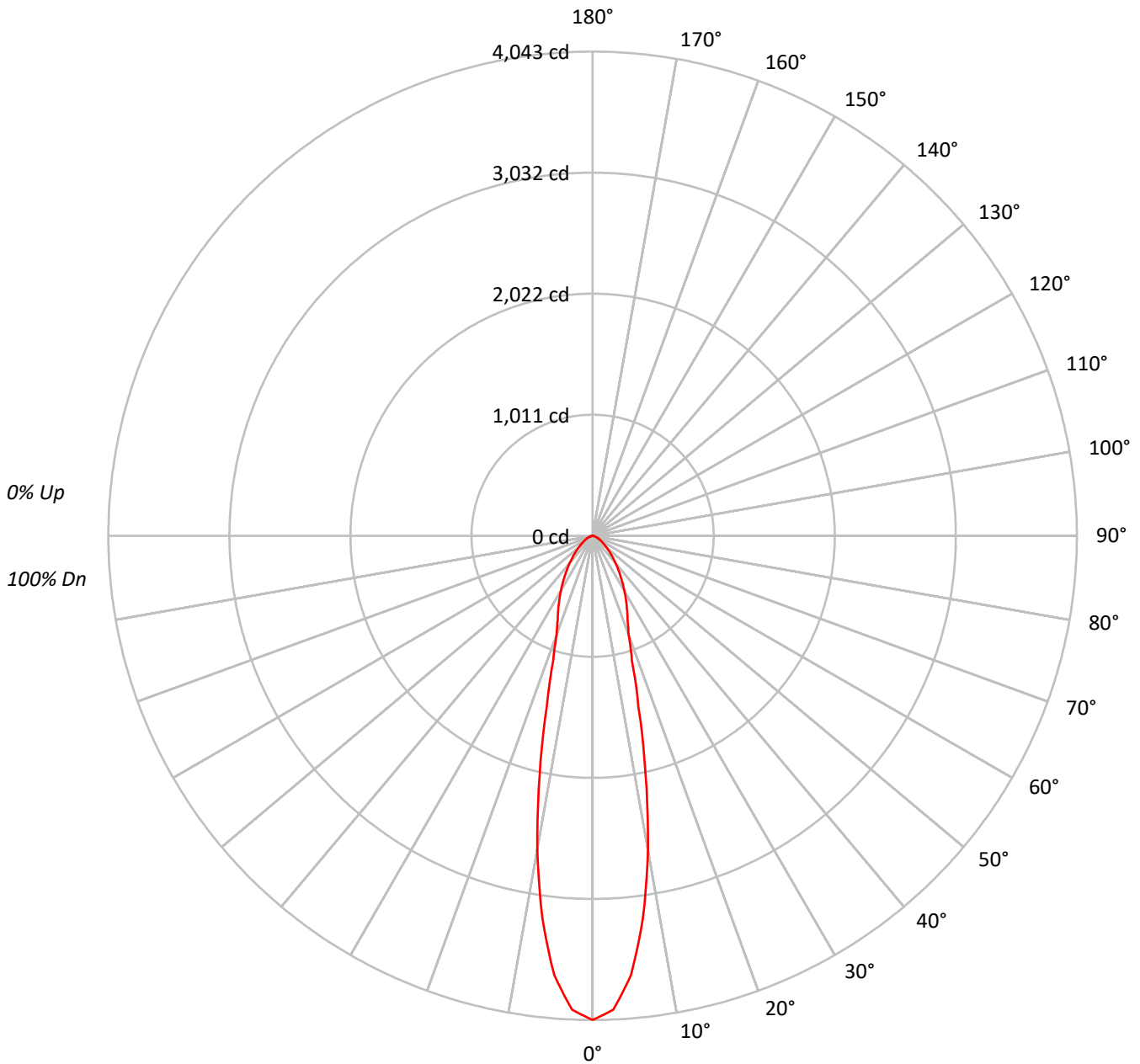
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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																			
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°	221638
5°	202558
10°	147943
15°	83905
20°	51186
25°	41077
30°	33474
35°	26843
40°	21290
45°	16653
50°	12938
55°	10198
60°	8070
65°	6628
70°	4809
75°	2859
80°	1421
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16653 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.0	19.4
10°-20°	425.8	25.9
20°-30°	313.4	19.1
30°-40°	252.2	15.4
40°-50°	167.6	10.2
50°-60°	97.0	5.9
60°-70°	51.0	3.1
70°-80°	15.2	0.9
80°-90°	1.4	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°	1057.2	64.4
0°-40°	1309.4	79.8
0°-60°	1574.1	95.9
0°-90°	1641.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1641.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4043	
5°	3681	318
15°	1478	426
25°	679	313
35°	401	252
45°	215	168
55°	107	97
65°	51	51
75°	14	15
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4043.0
2.5°	3961.8
5°	3680.9
7.5°	3219.6
10°	2657.7
12.5°	2043.3
15°	1478.4
17.5°	1092.2
20°	877.4
22.5°	763.2
25°	679.1
27.5°	602.5
30°	528.8
32.5°	462.7
35°	401.1
37.5°	347.1
40°	297.5
42.5°	252.4
45°	214.8
47.5°	181.8
50°	151.7
52.5°	127.7
55°	106.7
57.5°	88.6
60°	73.6
62.5°	61.6
65°	51.1
67.5°	42.1
70°	30.0
72.5°	19.5
75°	13.5
77.5°	7.5
80°	4.5
82.5°	3.0
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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