

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P641192

Luminaire Tested: ML5612LSNFL2597FS1E - 694TBZB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641192
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 - 600LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 956.1 lumens
Efficiency: N/A
Efficacy: 92.8 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

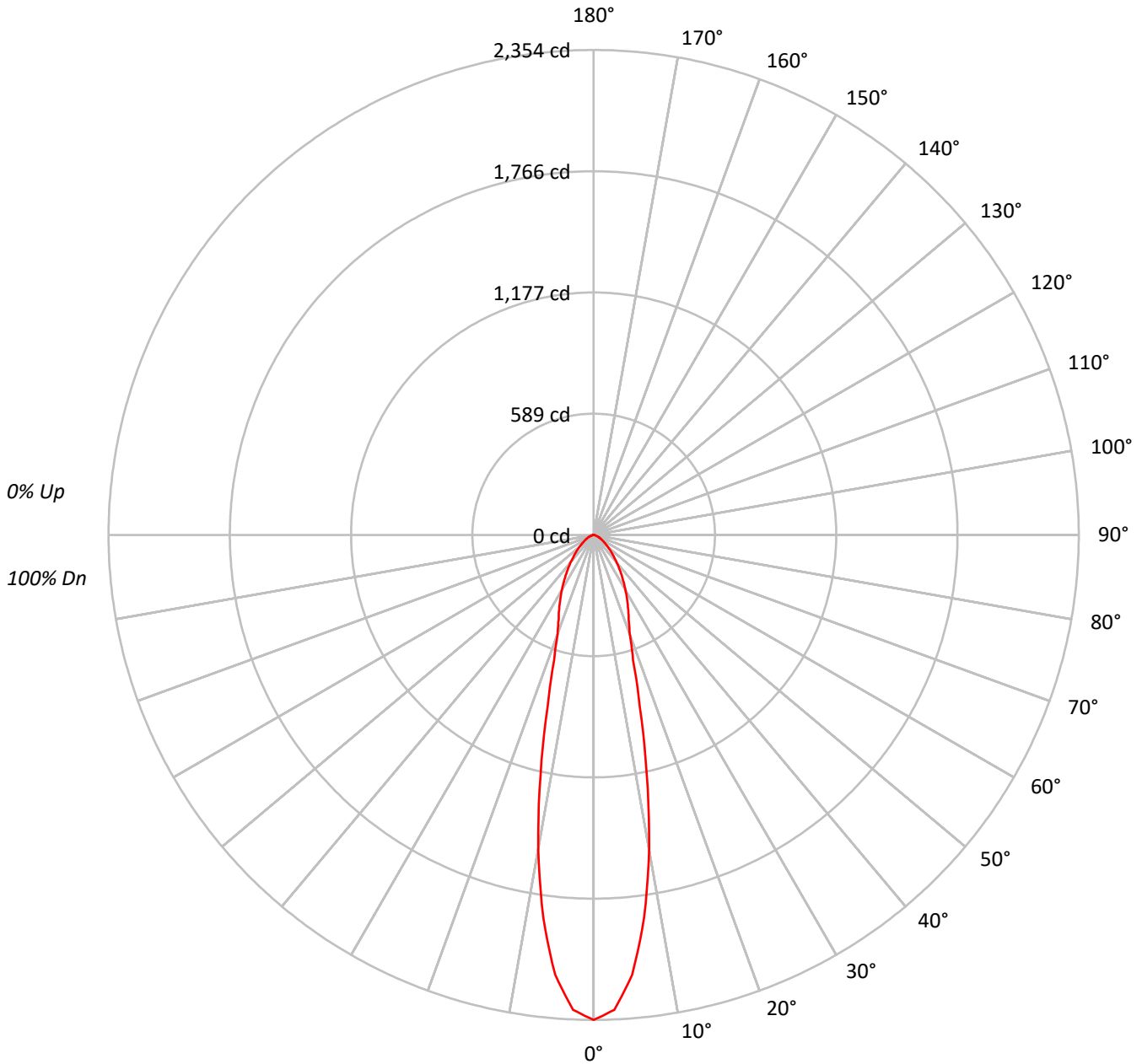
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	111	108	106	103	104	102	100	100	99	97	97	95	94	93					93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79					79			
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73					73			
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68					68			
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64					64			
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60					60			
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57					57			
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54					54			
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51					51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	129069
5°	117956
10°	86154
15°	48860
20°	29805
25°	23923
30°	19497
35°	15633
40°	12395
45°	9699
50°	7539
55°	5935
60°	4704
65°	3853
70°	2805
75°	1673
80°	821
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	19.4
10°-20°	248.0	25.9
20°-30°	182.5	19.1
30°-40°	146.9	15.4
40°-50°	97.6	10.2
50°-60°	56.5	5.9
60°-70°	29.7	3.1
70°-80°	8.9	0.9
80°-90°	0.8	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°	615.6	64.4
0°-40°	762.5	79.8
0°-60°	916.7	95.9
0°-90°	956.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2354	
5°	2144	185
15°	861	248
25°	396	183
35°	234	147
45°	125	98
55°	62	57
65°	30	30
75°	8	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2354.4
2.5°	2307.1
5°	2143.5
7.5°	1874.9
10°	1547.7
12.5°	1189.9
15°	860.9
17.5°	636.1
20°	510.9
22.5°	444.5
25°	395.5
27.5°	350.8
30°	308.0
32.5°	269.5
35°	233.6
37.5°	202.1
40°	173.2
42.5°	147.0
45°	125.1
47.5°	105.9
50°	88.4
52.5°	74.4
55°	62.1
57.5°	51.6
60°	42.9
62.5°	35.9
65°	29.7
67.5°	24.5
70°	17.5
72.5°	11.4
75°	7.9
77.5°	4.4
80°	2.6
82.5°	1.7
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)