

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: P641194

Luminaire Tested: ML5612LSNFL2597FS1E - 694TBZB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641194
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 - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

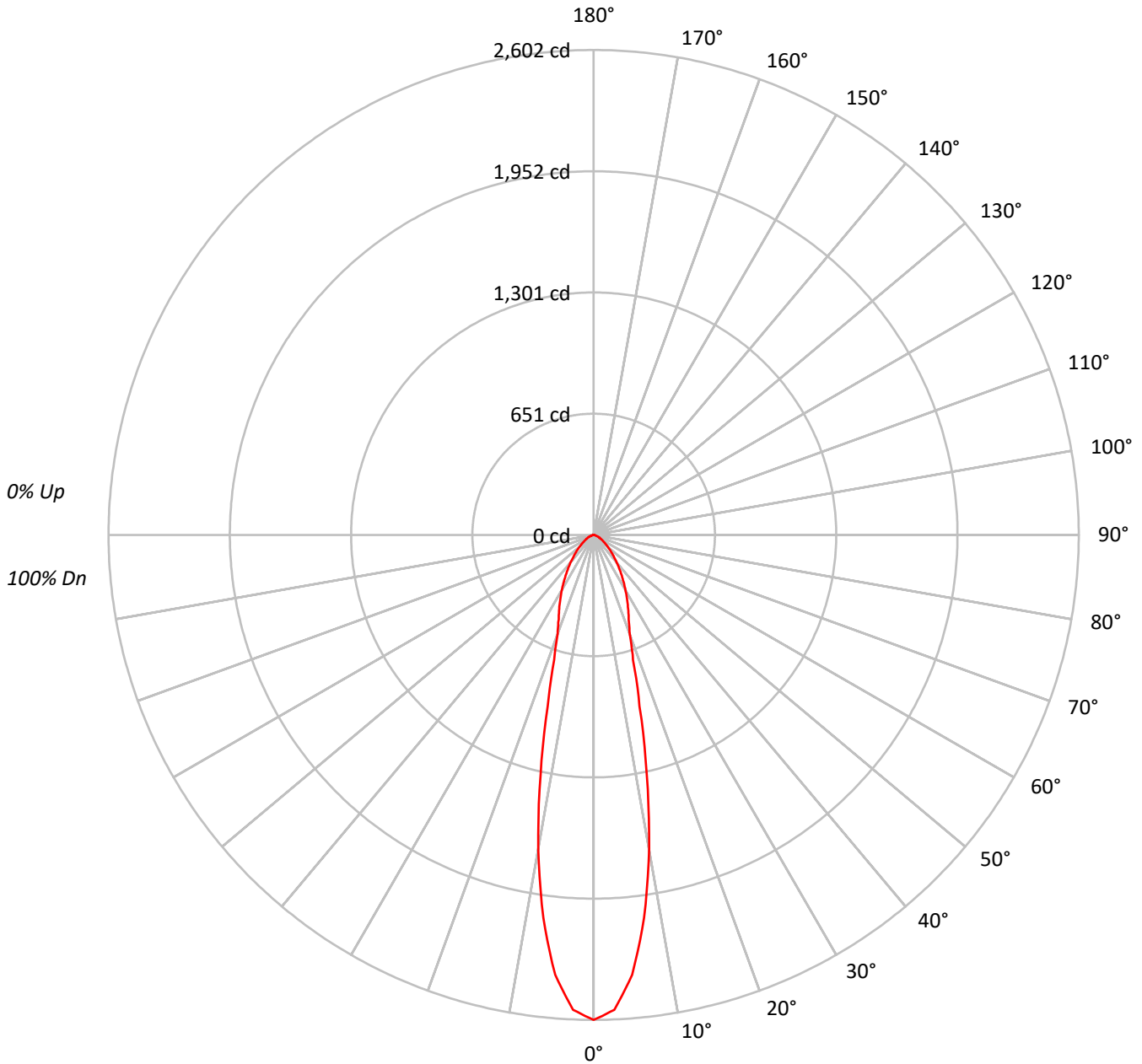
Lumens per Lamp: N/A
Luminaire Lumens: 1056.7 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	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°	142653
5°	130371
10°	95222
15°	54001
20°	32944
25°	26439
30°	21548
35°	17280
40°	13704
45°	10722
50°	8332
55°	6566
60°	5197
65°	4268
70°	3093
75°	1843
80°	916
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	19.4
10°-20°	274.1	25.9
20°-30°	201.7	19.1
30°-40°	162.3	15.4
40°-50°	107.9	10.2
50°-60°	62.5	5.9
60°-70°	32.8	3.1
70°-80°	9.8	0.9
80°-90°	0.9	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°	680.4	64.4
0°-40°	842.8	79.8
0°-60°	1013.2	95.9
0°-90°	1056.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2602	
5°	2369	205
15°	952	274
25°	437	202
35°	258	162
45°	138	108
55°	69	62
65°	33	33
75°	9	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2602.2
2.5°	2550.0
5°	2369.1
7.5°	2072.3
10°	1710.6
12.5°	1315.1
15°	951.5
17.5°	703.0
20°	564.7
22.5°	491.2
25°	437.1
27.5°	387.8
30°	340.4
32.5°	297.8
35°	258.2
37.5°	223.4
40°	191.5
42.5°	162.5
45°	138.3
47.5°	117.0
50°	97.7
52.5°	82.2
55°	68.7
57.5°	57.1
60°	47.4
62.5°	39.6
65°	32.9
67.5°	27.1
70°	19.3
72.5°	12.6
75°	8.7
77.5°	4.8
80°	2.9
82.5°	1.9
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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