

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: P641116

Luminaire Tested: ML5612LSNFL2597FS1E - 692W - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 692W - 600LM - 2700K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 910.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

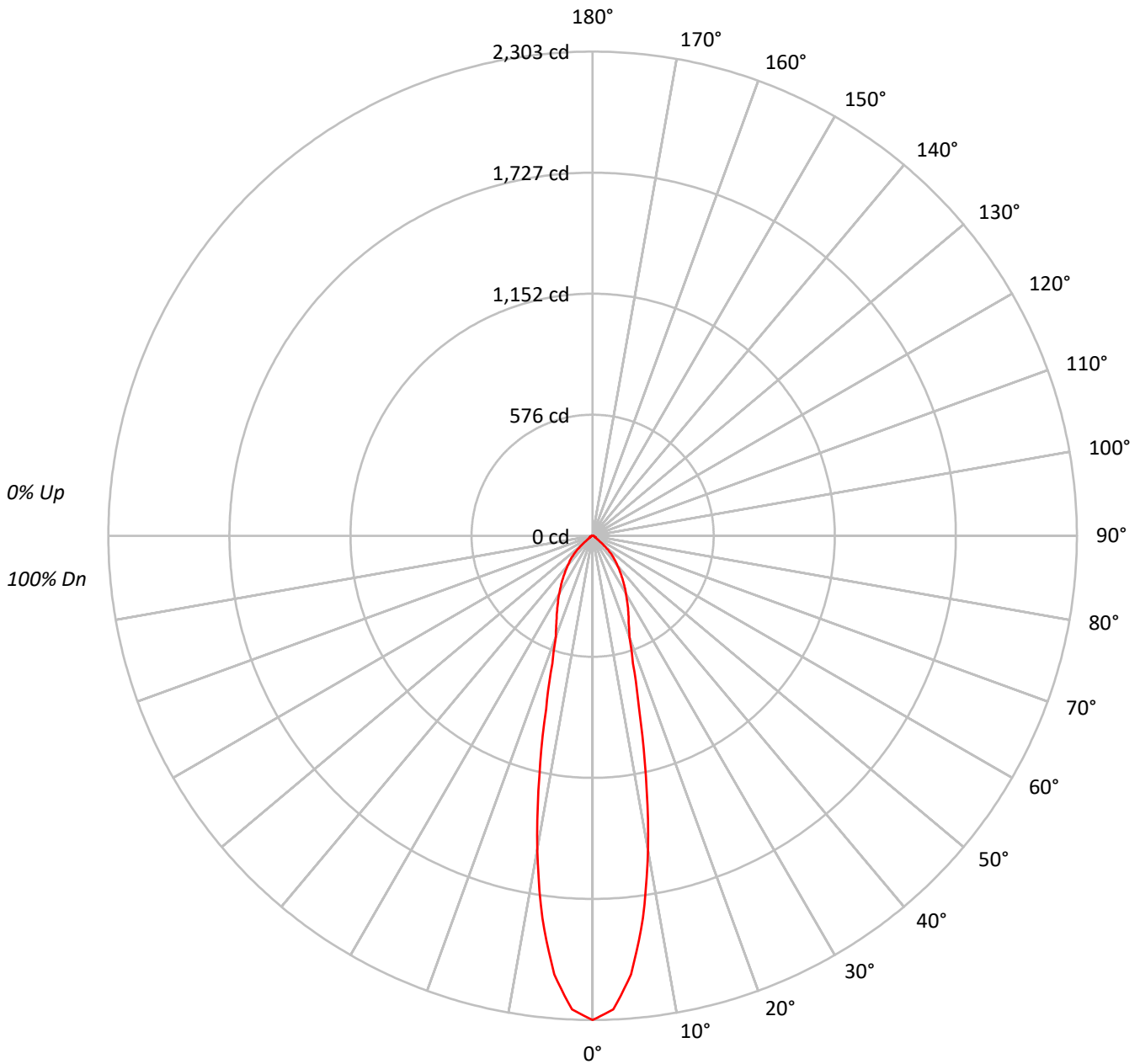
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62			
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	60	59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	126262
5°	115232
10°	84529
15°	48445
20°	29858
25°	24274
30°	20073
35°	16389
40°	13139
45°	10218
50°	5654
55°	2198
60°	1776
65°	1544
70°	1362
75°	1440
80°	1357
85°	1069

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10218 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	19.9
10°-20°	245.5	27.0
20°-30°	185.1	20.3
30°-40°	153.4	16.9
40°-50°	97.9	10.8
50°-60°	26.1	2.9
60°-70°	12.1	1.3
70°-80°	6.9	0.8
80°-90°	2.0	0.2
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°	611.7	67.2
0°-40°	765.1	84.1
0°-60°	889.1	97.7
0°-90°	910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	910.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2303	
5°	2094	181
15°	854	245
25°	401	185
35°	245	153
45°	132	98
55°	23	26
65°	12	12
75°	7	7
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2303.2
2.5°	2255.6
5°	2094.0
7.5°	1833.9
10°	1518.5
12.5°	1168.2
15°	853.6
17.5°	636.8
20°	511.8
22.5°	448.9
25°	401.3
27.5°	357.1
30°	317.1
32.5°	279.7
35°	244.9
37.5°	212.5
40°	183.6
42.5°	157.3
45°	131.8
47.5°	97.8
50°	66.3
52.5°	34.9
55°	23.0
57.5°	18.7
60°	16.2
62.5°	14.5
65°	11.9
67.5°	10.2
70°	8.5
72.5°	7.7
75°	6.8
77.5°	5.1
80°	4.3
82.5°	2.6
85°	1.7
87.5°	0.9
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)