

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: P641392

Luminaire Tested: ML5612LSVWFL7597FS1E - 594WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641392
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 594WB - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1234.4 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

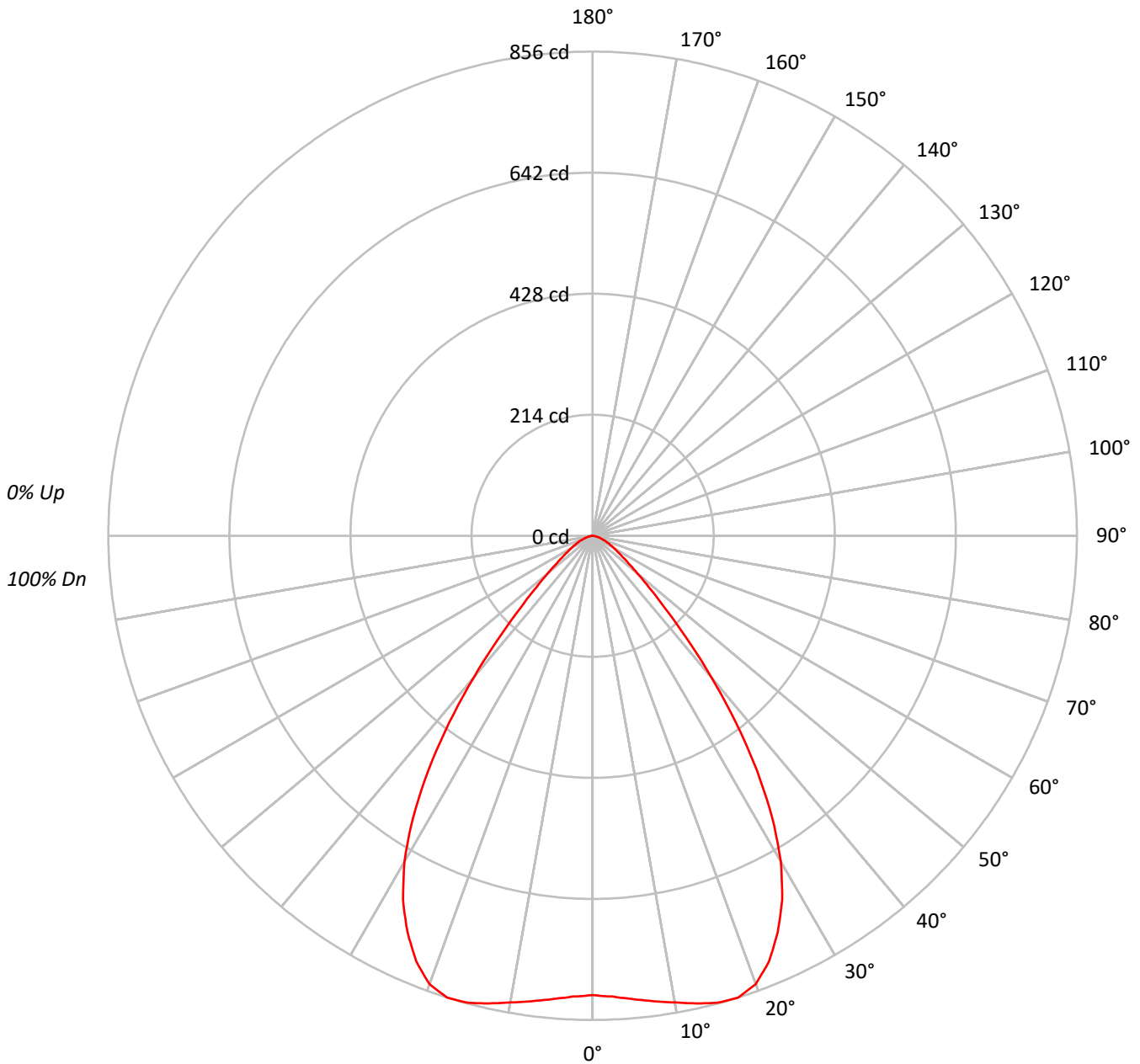
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83																			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75																			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68																			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62																			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57																			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52																			
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48																			
9	69	58	51	47	68	57	51	46	56	50	46	55	50	46	54	50	46	44																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	64108
5°	65153
10°	67165
15°	69851
20°	70860
25°	67417
30°	60635
35°	48753
40°	33636
45°	20039
50°	12674
55°	8795
60°	6726
65°	5454
70°	4408
75°	3416
80°	2046
85°	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20039 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.0	6.4
10°-20°	241.0	19.5
20°-30°	352.7	28.6
30°-40°	311.3	25.2
40°-50°	147.6	12.0
50°-60°	59.6	4.8
60°-70°	29.8	2.4
70°-80°	12.0	1.0
80°-90°	1.5	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°	672.6	54.5
0°-40°	983.9	79.7
0°-60°	1191.1	96.5
0°-90°	1234.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1234.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	812	
5°	822	79
15°	855	241
25°	774	353
35°	506	311
45°	180	148
55°	64	60
65°	29	30
75°	11	12
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	812.1
2.5°	815.5
5°	822.2
7.5°	830.1
10°	837.9
12.5°	846.9
15°	854.7
17.5°	855.9
20°	843.5
22.5°	814.4
25°	774.0
27.5°	725.7
30°	665.2
32.5°	591.1
35°	505.9
37.5°	416.2
40°	326.4
42.5°	245.7
45°	179.5
47.5°	134.6
50°	103.2
52.5°	79.6
55°	63.9
57.5°	51.6
60°	42.6
62.5°	35.9
65°	29.2
67.5°	24.7
70°	19.1
72.5°	14.6
75°	11.2
77.5°	7.9
80°	4.5
82.5°	2.2
85°	1.1
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)