

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: P641348

Luminaire Tested: ML5612LSVWFL7597FS1E - 593WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-74)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 593WB - 900LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1240.4 lumens
Efficiency: N/A
Efficacy: 93.3 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

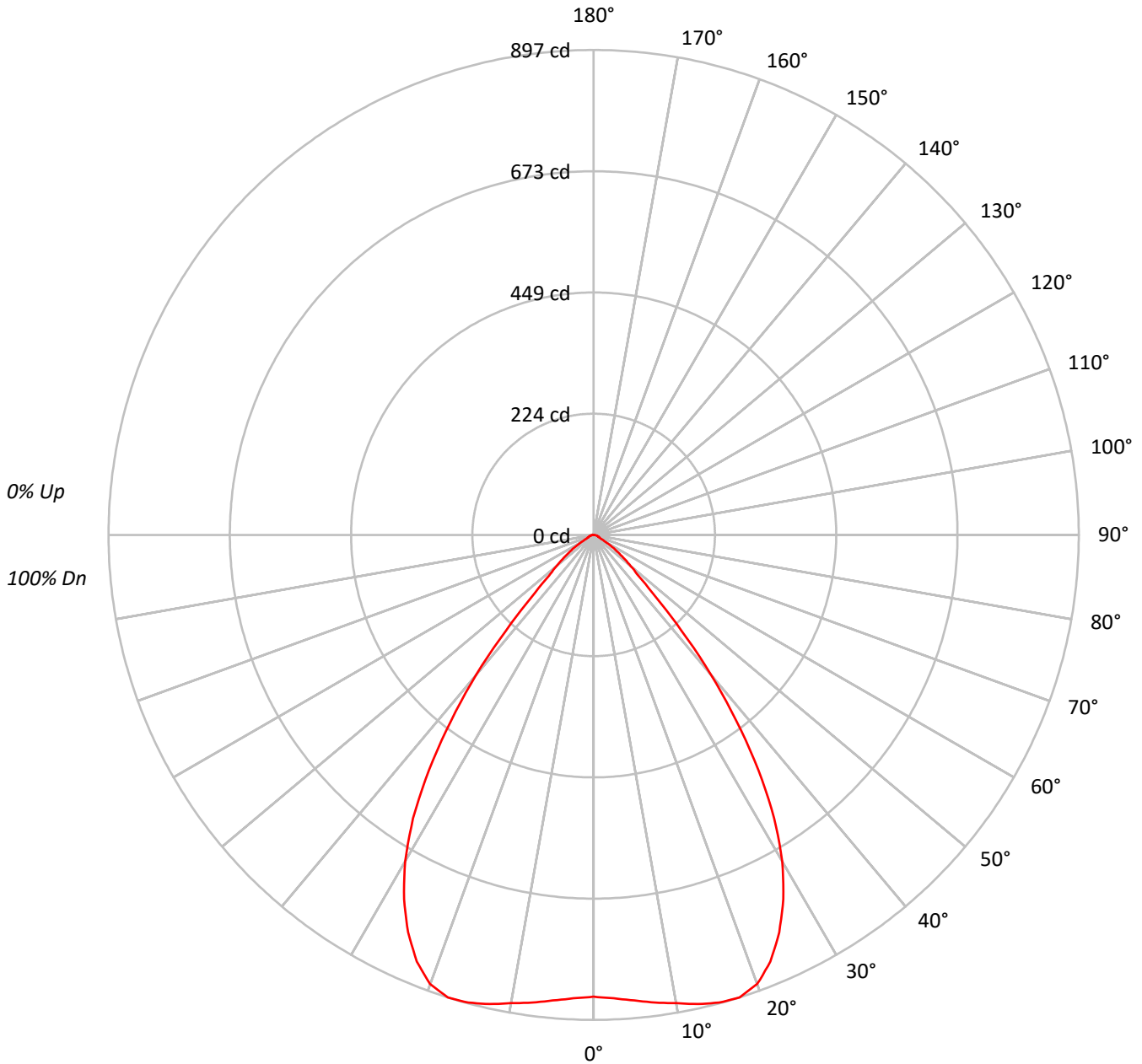
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	85	84				
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76				
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59				
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54				
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	60	55	51	50				
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46				
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67423
5°	68505
10°	70500
15°	73193
20°	74271
25°	70683
30°	63561
35°	51211
40°	34800
45°	18019
50°	11041
55°	7294
60°	3647
65°	2148
70°	2123
75°	2105
80°	2091
85°	2083

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18019 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	6.7
10°-20°	252.6	20.4
20°-30°	369.6	29.8
30°-40°	325.9	26.3
40°-50°	138.0	11.1
50°-60°	48.0	3.9
60°-70°	13.4	1.1
70°-80°	7.3	0.6
80°-90°	2.5	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°	705.2	56.9
0°-40°	1031.1	83.1
0°-60°	1217.2	98.1
0°-90°	1240.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	854	
5°	864	83
15°	896	253
25°	812	370
35°	531	326
45°	161	138
55°	53	48
65°	12	13
75°	7	7
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	854.1
2.5°	857.6
5°	864.5
7.5°	872.5
10°	879.5
12.5°	888.7
15°	895.6
17.5°	896.8
20°	884.1
22.5°	854.1
25°	811.5
27.5°	759.6
30°	697.3
32.5°	621.3
35°	531.4
37.5°	433.4
40°	337.7
42.5°	239.7
45°	161.4
47.5°	111.8
50°	89.9
52.5°	69.2
55°	53.0
57.5°	38.0
60°	23.1
62.5°	16.1
65°	11.5
67.5°	10.4
70°	9.2
72.5°	8.1
75°	6.9
77.5°	5.8
80°	4.6
82.5°	3.5
85°	2.3
87.5°	1.2
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)