

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: P641556

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641556
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-90)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 694WB - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1204.5 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

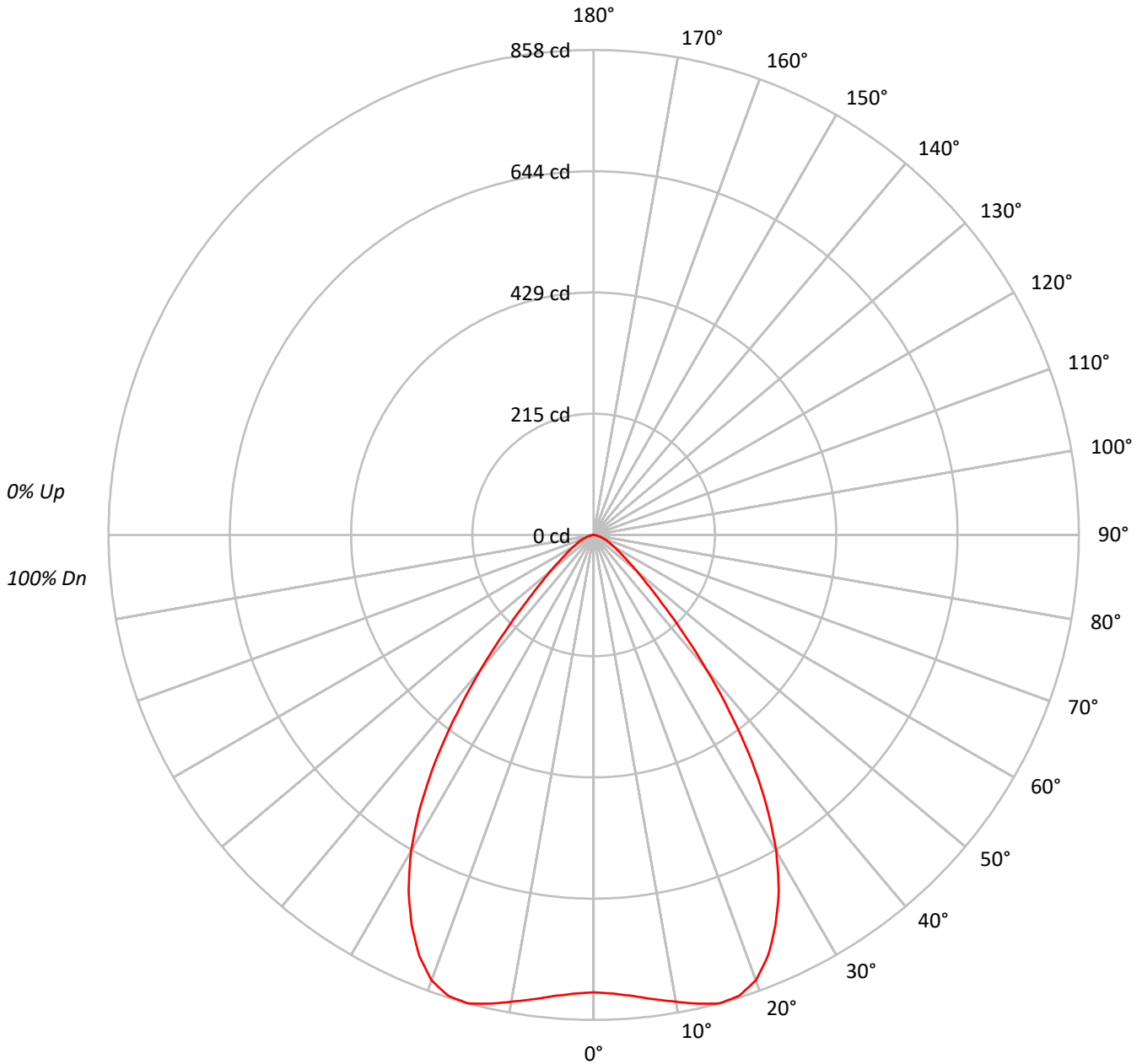
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	85	83																																				
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																																				
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68																																				
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62																																				
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57																																				
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53																																				
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48																																				
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45																																				
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42																																				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44360
5°	45069
10°	46681
15°	48712
20°	48923
25°	46043
30°	40867
35°	32551
40°	22163
45°	13187
50°	8460
55°	5840
60°	4539
65°	3684
70°	2965
75°	2309
80°	1389
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13187 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	6.5
10°-20°	241.1	20.0
20°-30°	346.6	28.8
30°-40°	299.0	24.8
40°-50°	139.8	11.6
50°-60°	57.4	4.8
60°-70°	28.7	2.4
70°-80°	11.6	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°	666.6	55.3
0°-40°	965.6	80.2
0°-60°	1162.7	96.5
0°-90°	1204.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1204.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	809	
5°	819	79
15°	858	241
25°	761	347
35°	486	299
45°	170	140
55°	61	57
65°	28	29
75°	11	12
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	809.2
2.5°	812.5
5°	819.0
7.5°	828.8
10°	838.6
12.5°	849.5
15°	858.3
17.5°	855.0
20°	838.6
22.5°	805.9
25°	761.2
27.5°	708.9
30°	645.6
32.5°	570.4
35°	486.4
37.5°	395.9
40°	309.7
42.5°	231.2
45°	170.1
47.5°	127.6
50°	99.2
52.5°	76.3
55°	61.1
57.5°	50.2
60°	41.4
62.5°	33.8
65°	28.4
67.5°	24.0
70°	18.5
72.5°	14.2
75°	10.9
77.5°	7.6
80°	4.4
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)