

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: P643712

Luminaire Tested: ML5615LSVWFL9FS1E - 694WB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-113)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 694WB - 1500LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1736.9 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

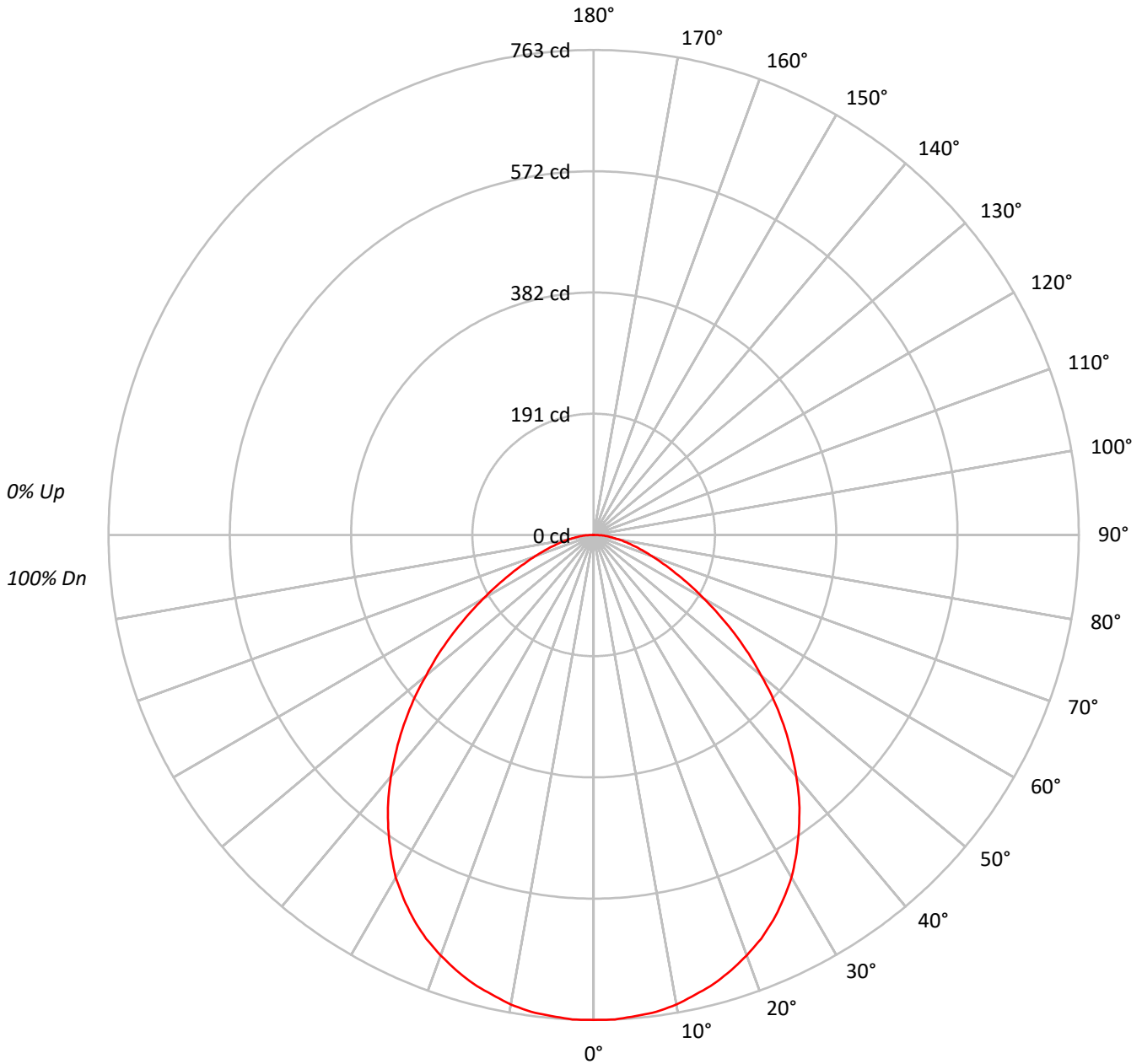
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74																			
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64																			
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43																			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32																			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41833
5°	41817
10°	41766
15°	41493
20°	41064
25°	40448
30°	39398
35°	37691
40°	35495
45°	32748
50°	29338
55°	25844
60°	21928
65°	18471
70°	15644
75°	13556
80°	12123
85°	12077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 32748 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	4.2
10°-20°	206.1	11.9
20°-30°	307.4	17.7
30°-40°	351.4	20.2
40°-50°	324.8	18.7
50°-60°	241.7	13.9
60°-70°	143.1	8.2
70°-80°	69.4	4.0
80°-90°	20.9	1.2
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°	585.7	33.7
0°-40°	937.1	54.0
0°-60°	1503.6	86.6
0°-90°	1736.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1736.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	763	
5°	760	72
15°	731	206
25°	669	307
35°	563	351
45°	422	325
55°	270	242
65°	142	143
75°	64	69
85°	19	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	763.1
2.5°	763.1
5°	759.9
7.5°	756.7
10°	750.3
12.5°	740.7
15°	731.1
17.5°	718.3
20°	703.9
22.5°	687.9
25°	668.7
27.5°	646.3
30°	622.4
32.5°	593.6
35°	563.2
37.5°	531.2
40°	496.0
42.5°	459.2
45°	422.4
47.5°	384.0
50°	344.0
52.5°	307.2
55°	270.4
57.5°	233.6
60°	200.0
62.5°	169.6
65°	142.4
67.5°	118.4
70°	97.6
72.5°	80.0
75°	64.0
77.5°	51.2
80°	38.4
82.5°	27.2
85°	19.2
87.5°	11.2
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)