

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: P643734

Luminaire Tested: ML5615LSVWFL9FS1E - 696WB - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-115)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 696WB - 900LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1181.2 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

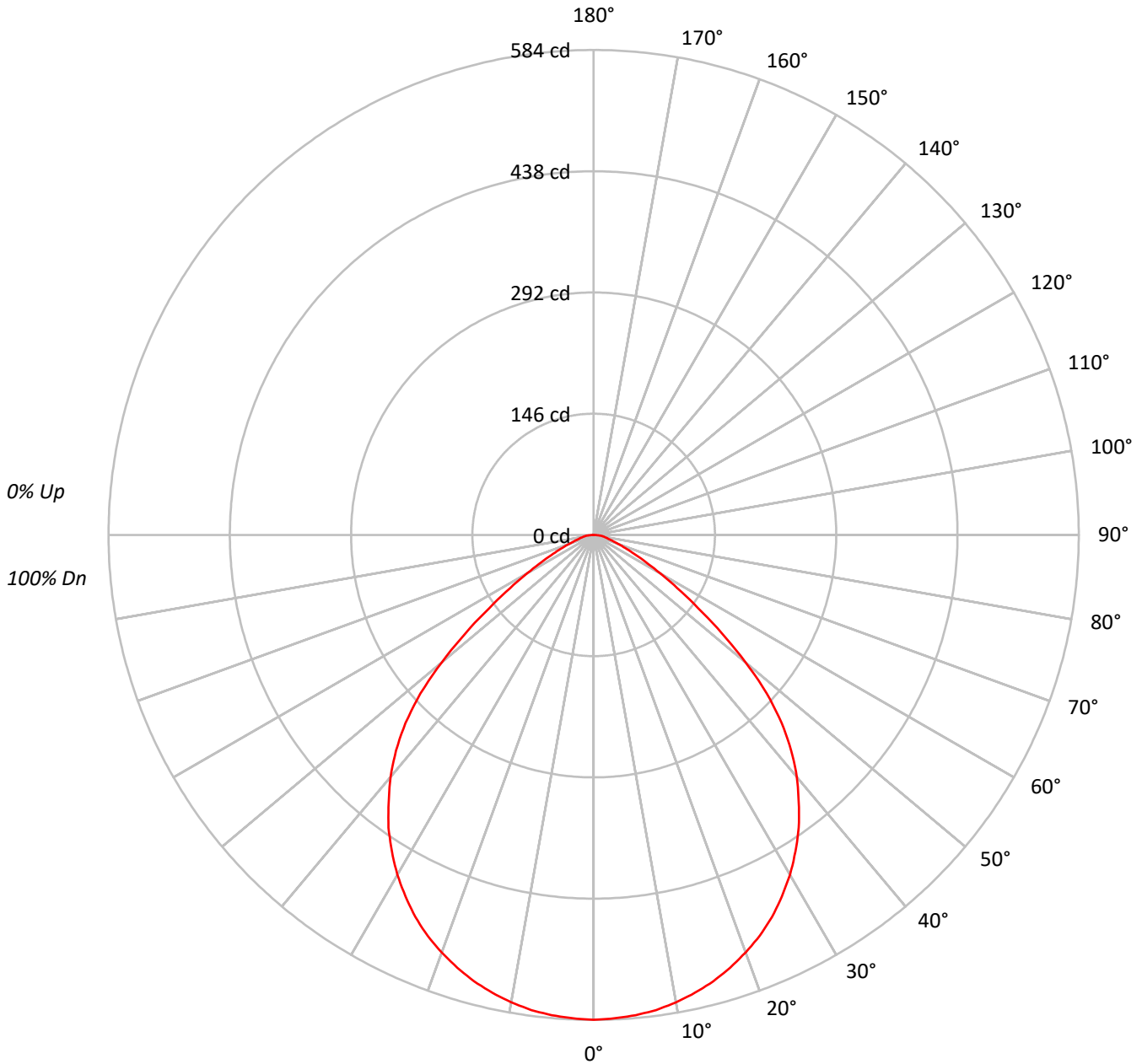
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53			53
6	76	64	57	51	75	64	56	51	62	55	50	60	54	50	59	54	49	48			48
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39			39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	32009
5°	31945
10°	31807
15°	31589
20°	31211
25°	30715
30°	29916
35°	28810
40°	27230
45°	24832
50°	20340
55°	14661
60°	10087
65°	6927
70°	4921
75°	3855
80°	3946
85°	4277

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24832 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.1	4.7
10°-20°	156.9	13.3
20°-30°	233.5	19.8
30°-40°	268.2	22.7
40°-50°	243.4	20.6
50°-60°	140.5	11.9
60°-70°	55.7	4.7
70°-80°	21.0	1.8
80°-90°	7.0	0.6
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°	445.4	37.7
0°-40°	713.6	60.4
0°-60°	1097.5	92.9
0°-90°	1181.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1181.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	584	
5°	580	55
15°	557	157
25°	508	233
35°	430	268
45°	320	243
55°	153	141
65°	53	56
75°	18	21
85°	7	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	583.9
2.5°	582.7
5°	580.5
7.5°	577.1
10°	571.4
12.5°	564.6
15°	556.6
17.5°	546.4
20°	535.0
22.5°	522.5
25°	507.8
27.5°	490.7
30°	472.6
32.5°	452.1
35°	430.5
37.5°	405.5
40°	380.5
42.5°	352.1
45°	320.3
47.5°	282.9
50°	238.5
52.5°	194.2
55°	153.4
57.5°	119.3
60°	92.0
62.5°	70.4
65°	53.4
67.5°	40.9
70°	30.7
72.5°	23.9
75°	18.2
77.5°	15.9
80°	12.5
82.5°	10.2
85°	6.8
87.5°	2.3
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)