

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: P643693

Luminaire Tested: ML5615LSVWFL9FS1E - 694TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-114)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 694TBZB - 1200LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

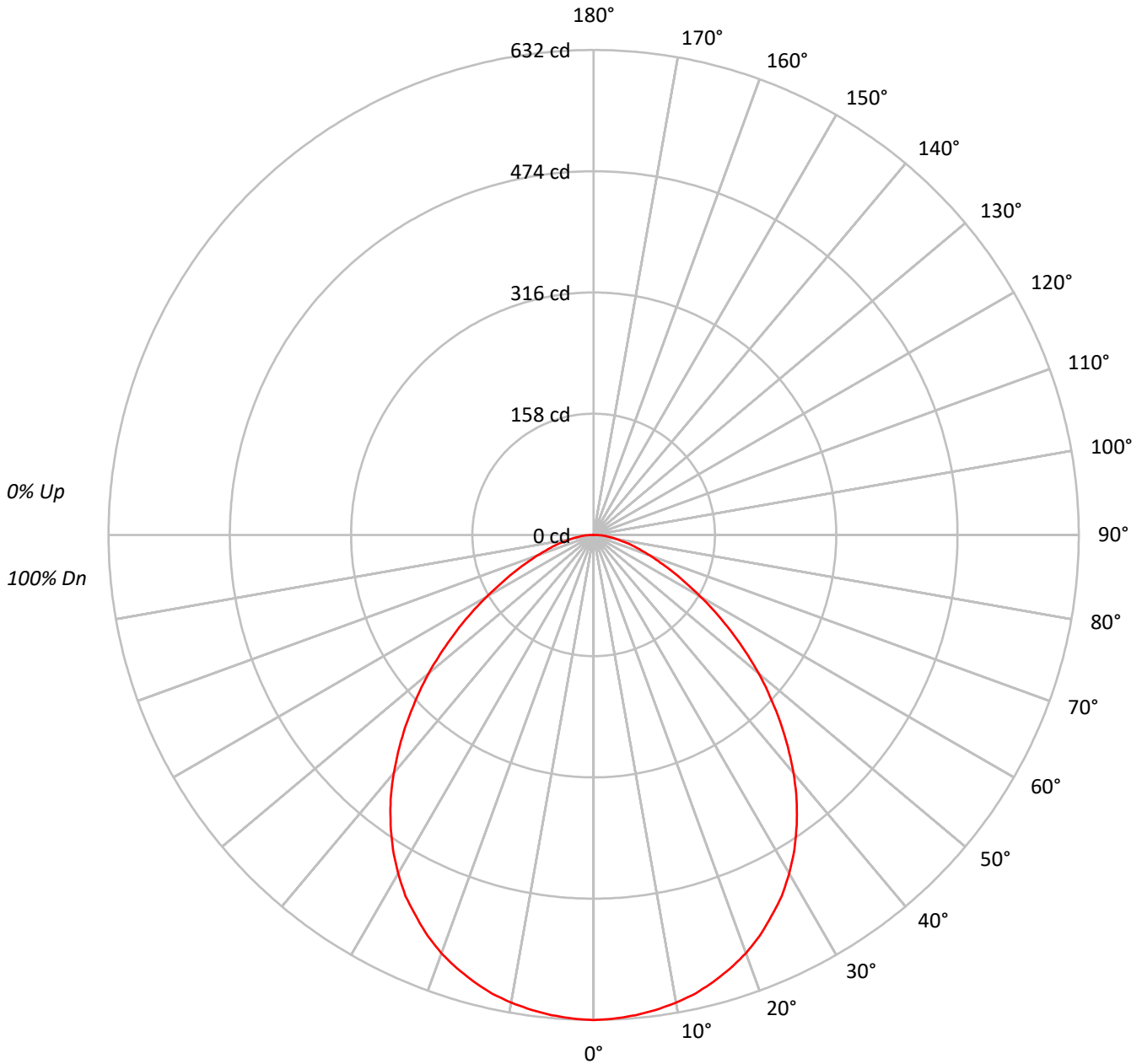
Lumens per Lamp: N/A  
Luminaire Lumens: 1413.8 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.4  
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									
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			100																
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87			87																
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74			74																
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64																
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56			56																
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49			49																
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44			44																
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39			39																
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35																
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32			32																
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			29																

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

	0°
0°	34663
5°	34570
10°	34452
15°	34211
20°	33842
25°	33147
30°	32239
35°	30865
40°	28983
45°	26631
50°	23940
55°	20826
60°	17586
65°	14736
70°	12422
75°	10760
80°	9281
85°	9246

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 26631 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.7	4.2
10°-20°	170.0	12.0
20°-30°	252.3	17.8
30°-40°	287.6	20.3
40°-50°	264.3	18.7
50°-60°	195.3	13.8
60°-70°	113.9	8.1
70°-80°	54.3	3.8
80°-90°	16.4	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°	482.0	34.1
0°-40°	769.6	54.4
0°-60°	1229.3	86.9
0°-90°	1413.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1413.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	632	
5°	628	60
15°	603	170
25°	548	252
35°	461	288
45°	344	264
55°	218	195
65°	114	114
75°	51	54
85°	15	16
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	632.3
2.5°	630.9
5°	628.2
7.5°	624.2
10°	618.9
12.5°	612.2
15°	602.8
17.5°	592.2
20°	580.1
22.5°	565.4
25°	548.0
27.5°	530.7
30°	509.3
32.5°	486.6
35°	461.2
37.5°	434.4
40°	405.0
42.5°	374.3
45°	343.5
47.5°	311.4
50°	280.7
52.5°	248.6
55°	217.9
57.5°	188.5
60°	160.4
62.5°	135.0
65°	113.6
67.5°	93.6
70°	77.5
72.5°	62.8
75°	50.8
77.5°	38.8
80°	29.4
82.5°	21.4
85°	14.7
87.5°	9.4
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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Scaled Data Report



(END OF REPORT)