

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P643484

Luminaire Tested: ML5615LSVWFL9FS1E - 593TBZB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643484  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-100)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 593TBZB - 1200LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1055.3 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.12  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

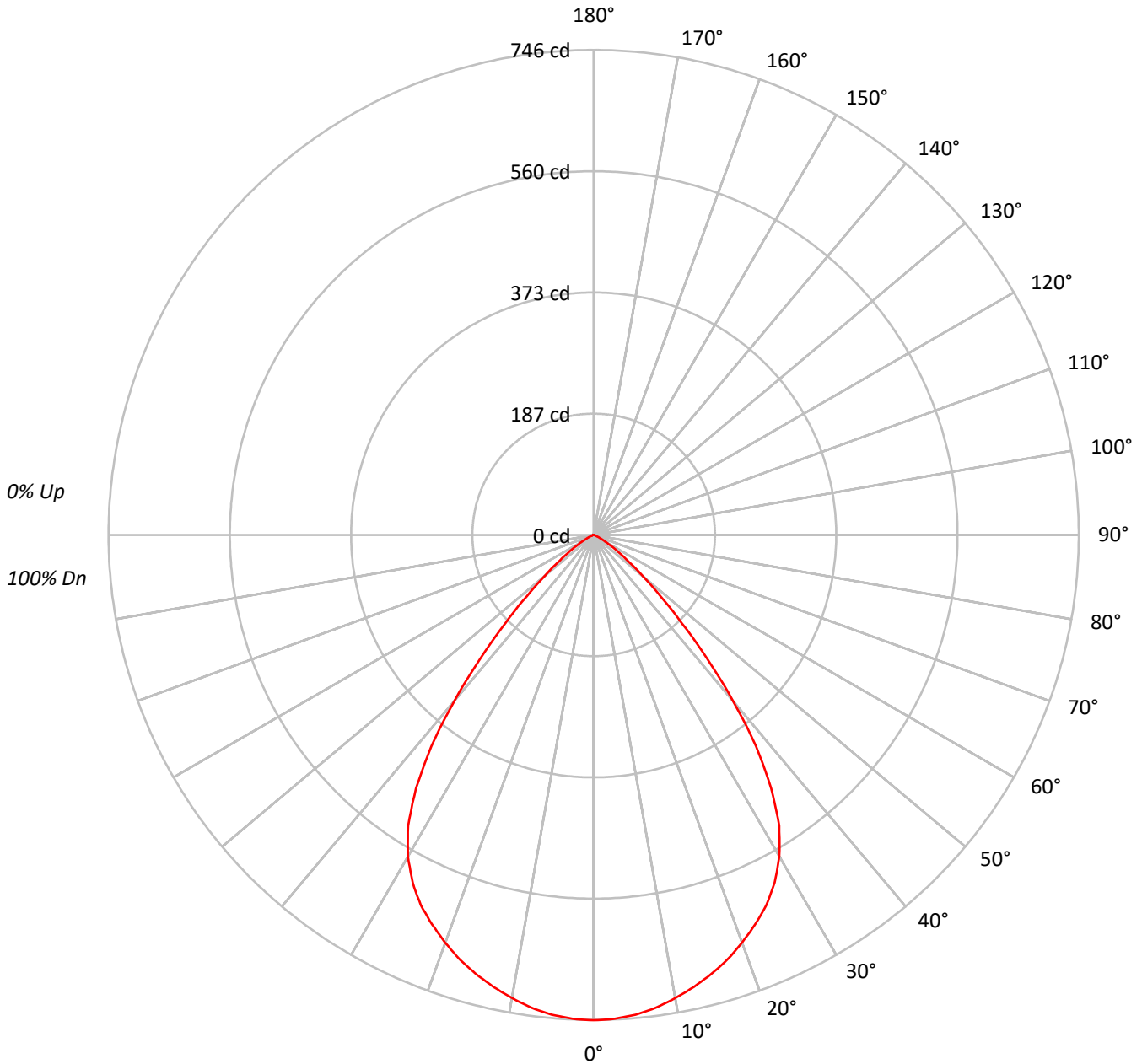
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84			84																
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76																
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69			69																
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63			63																
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	63	59	57			57																
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			53																
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48			48																
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45																
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41																

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

	0°
0°	58929
5°	58703
10°	57995
15°	57134
20°	56066
25°	54752
30°	52058
35°	45881
40°	34388
45°	21357
50°	12195
55°	6537
60°	3173
65°	1345
70°	669
75°	427
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21357 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.2	6.6
10°-20°	197.0	18.7
20°-30°	287.9	27.3
30°-40°	290.7	27.5
40°-50°	153.3	14.5
50°-60°	45.9	4.4
60°-70°	8.8	0.8
70°-80°	1.5	0.1
80°-90°	0.0	0.0
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°	555.1	52.6
0°-40°	845.7	80.1
0°-60°	1045.0	99.0
0°-90°	1055.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1055.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	746	
5°	741	70
15°	699	197
25°	629	288
35°	476	291
45°	191	153
55°	48	46
65°	7	9
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	746.5
2.5°	745.1
5°	740.8
7.5°	733.6
10°	723.5
12.5°	712.0
15°	699.1
17.5°	684.7
20°	667.4
22.5°	648.7
25°	628.6
27.5°	602.7
30°	571.1
32.5°	530.8
35°	476.1
37.5°	410.0
40°	333.7
42.5°	257.5
45°	191.3
47.5°	139.5
50°	99.3
52.5°	69.0
55°	47.5
57.5°	31.6
60°	20.1
62.5°	12.9
65°	7.2
67.5°	4.3
70°	2.9
72.5°	1.4
75°	1.4
77.5°	1.4
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)