

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: P641825

Luminaire Tested: ML5612LSVWFL97FS1E - 693BB - 600LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-110)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 693BB - 600LM - 5000K  
Description: ML56 RR, MILKY OPTIC, 6" BLACK BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 749.7 lumens  
Efficiency: N/A  
Efficacy: 72.8 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

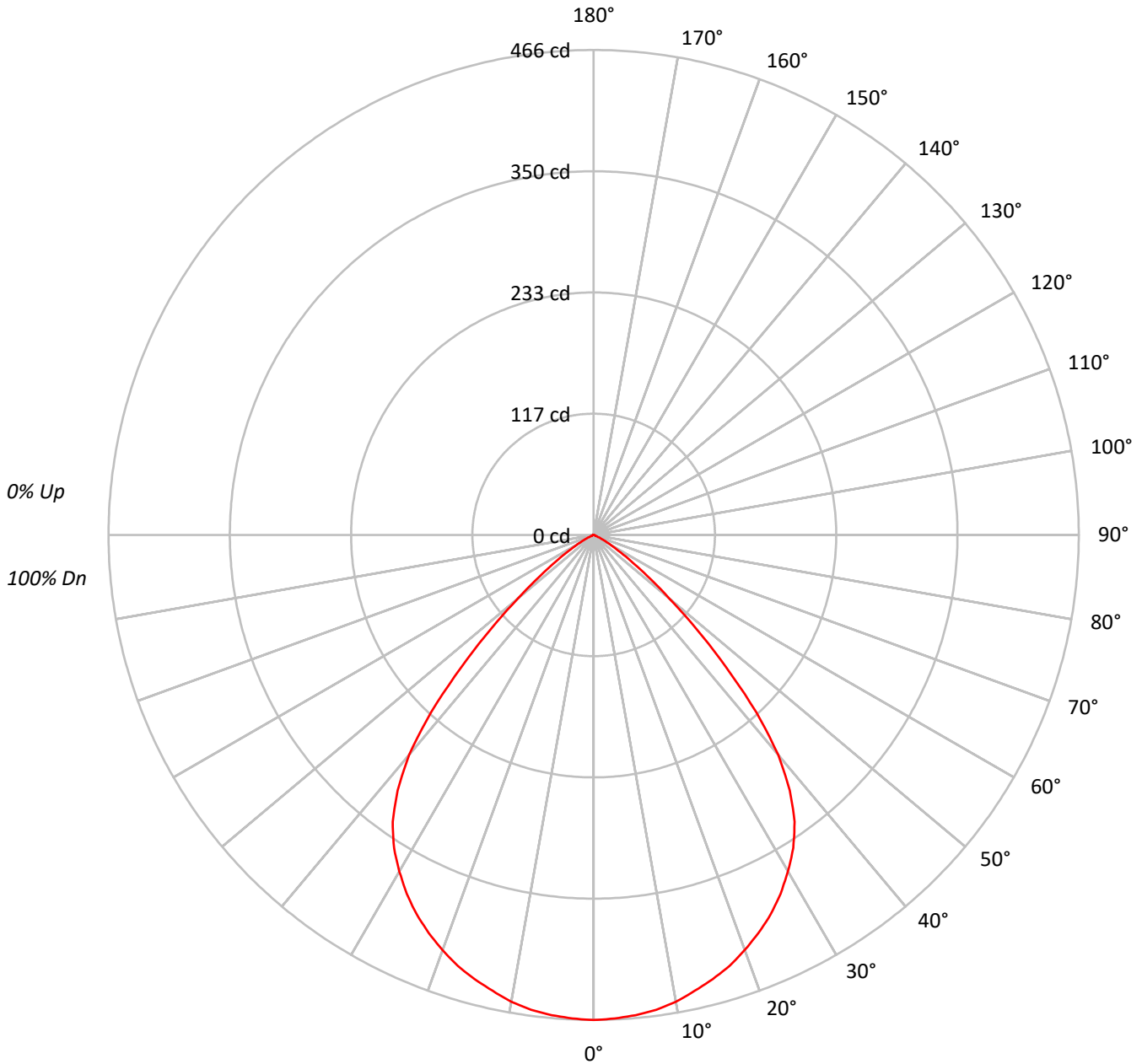
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			91																
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83			83																
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74			74																
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			67																
5	86	77	70	64	85	76	69	64	74	68	63	72	67	63	70	66	62	61			61																
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55			55																
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50			50																
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46			46																
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42			42																
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39			39																

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

	0°
0°	25552
5°	25490
10°	25356
15°	25080
20°	24765
25°	24334
30°	23630
35°	22520
40°	19723
45°	13947
50°	8085
55°	4158
60°	1908
65°	623
70°	160
75°	212
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13947 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.0	5.9
10°-20°	124.6	16.6
20°-30°	184.9	24.7
30°-40°	207.2	27.6
40°-50°	139.3	18.6
50°-60°	42.5	5.7
60°-70°	6.3	0.8
70°-80°	0.9	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°	353.5	47.2
0°-40°	560.8	74.8
0°-60°	742.5	99.0
0°-90°	749.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	749.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	466	
5°	463	44
15°	442	125
25°	402	185
35°	336	207
45°	180	139
55°	44	43
65°	5	6
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	466.1
2.5°	465.1
5°	463.2
7.5°	460.3
10°	455.5
12.5°	448.7
15°	441.9
17.5°	434.2
20°	424.5
22.5°	413.9
25°	402.3
27.5°	388.7
30°	373.3
32.5°	356.8
35°	336.5
37.5°	309.4
40°	275.6
42.5°	231.1
45°	179.9
47.5°	133.4
50°	94.8
52.5°	64.8
55°	43.5
57.5°	28.0
60°	17.4
62.5°	9.7
65°	4.8
67.5°	1.9
70°	1.0
72.5°	1.0
75°	1.0
77.5°	1.0
80°	0.0
82.5°	0.0
85°	0.0
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)