

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: P641821

Luminaire Tested: ML5612LSVWFL97FS1E - 693BB - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641821  
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 - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" BLACK BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 659.3 lumens  
Efficiency: N/A  
Efficacy: 64.0 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

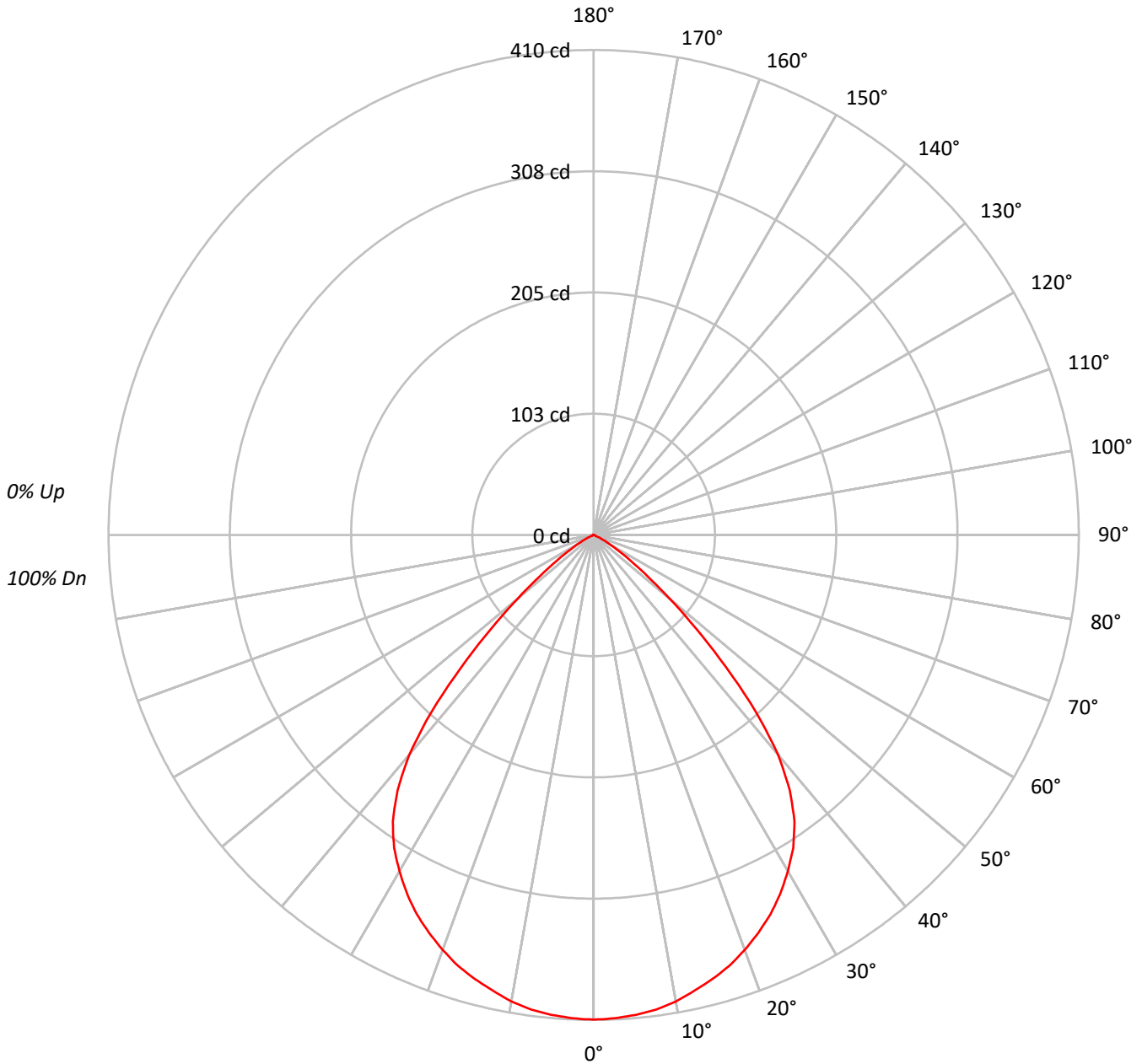
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	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°	22465
5°	22414
10°	22294
15°	22055
20°	21778
25°	21394
30°	20775
35°	19803
40°	17340
45°	12265
50°	7104
55°	3661
60°	1677
65°	558
70°	144
75°	191
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12265 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.7	5.9
10°-20°	109.6	16.6
20°-30°	162.6	24.7
30°-40°	182.2	27.6
40°-50°	122.5	18.6
50°-60°	37.4	5.7
60°-70°	5.5	0.8
70°-80°	0.8	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°	310.8	47.1
0°-40°	493.1	74.8
0°-60°	652.9	99.0
0°-90°	659.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	659.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	410	
5°	407	39
15°	389	110
25°	354	163
35°	296	182
45°	158	122
55°	38	37
65°	4	6
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	409.8
2.5°	409.0
5°	407.3
7.5°	404.7
10°	400.5
12.5°	394.5
15°	388.6
17.5°	381.8
20°	373.3
22.5°	363.9
25°	353.7
27.5°	341.8
30°	328.2
32.5°	313.8
35°	295.9
37.5°	272.1
40°	242.3
42.5°	203.2
45°	158.2
47.5°	117.3
50°	83.3
52.5°	57.0
55°	38.3
57.5°	24.7
60°	15.3
62.5°	8.5
65°	4.3
67.5°	1.7
70°	0.9
72.5°	0.9
75°	0.9
77.5°	0.9
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)