

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: P641856

Luminaire Tested: ML5612LSVWFL97FS1E - 693TBZB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-112)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 693TBZB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 887.8 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

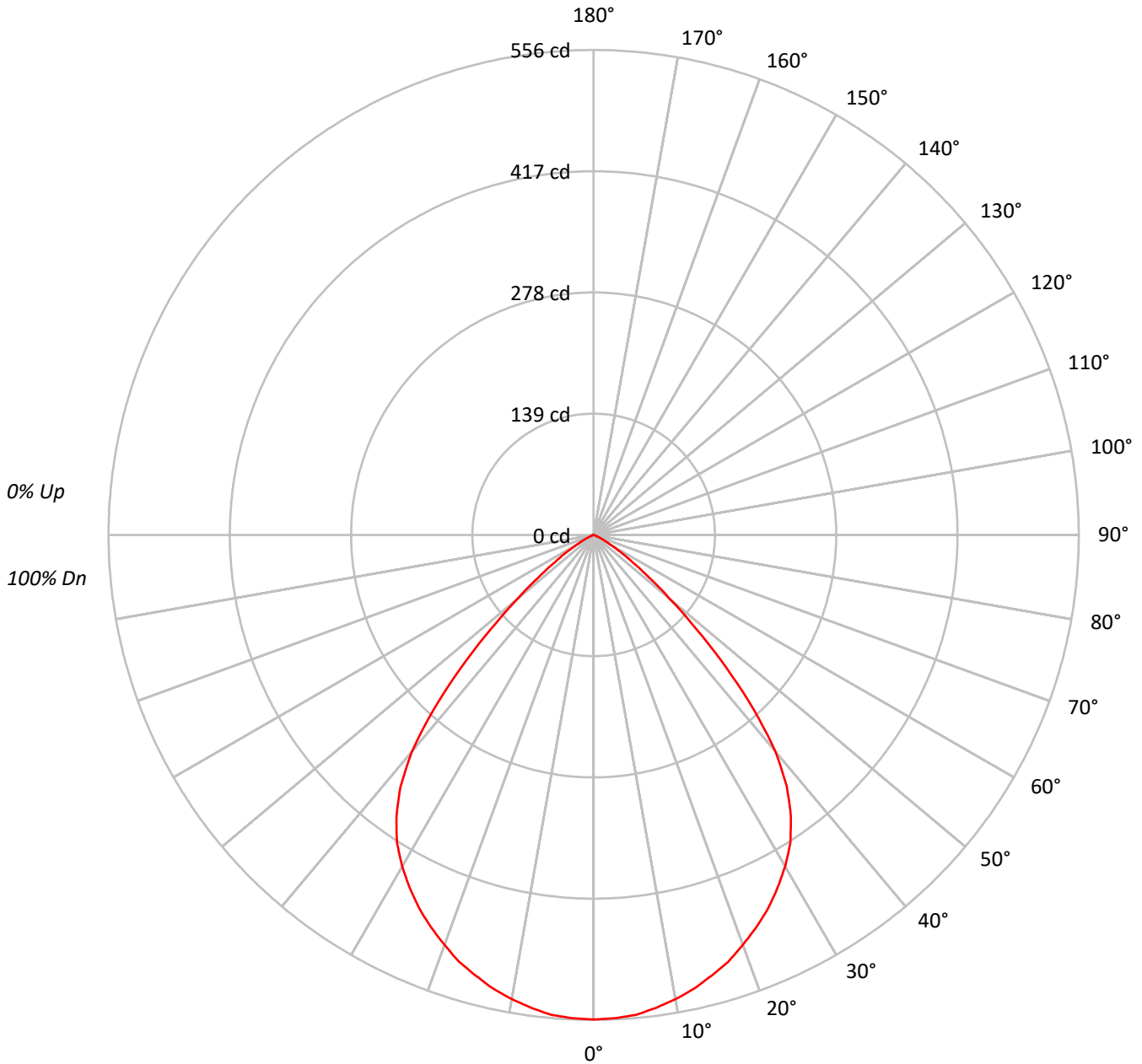
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42			
10	63	52	45	40	62	51	45	40	50	44	40	50	44	40	49	44	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30458
5°	30398
10°	30082
15°	29677
20°	29169
25°	28592
30°	27776
35°	26374
40°	23201
45°	16591
50°	9680
55°	5113
60°	2390
65°	986
70°	353
75°	233
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16591 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	5.9
10°-20°	147.5	16.6
20°-30°	217.3	24.5
30°-40°	243.3	27.4
40°-50°	165.0	18.6
50°-60°	52.3	5.9
60°-70°	8.8	1.0
70°-80°	1.2	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°	417.1	47.0
0°-40°	660.5	74.4
0°-60°	877.8	98.9
0°-90°	887.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	887.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	556	
5°	552	52
15°	523	147
25°	473	217
35°	394	243
45°	214	165
55°	54	52
65°	8	9
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	555.6
2.5°	554.6
5°	552.4
7.5°	546.9
10°	540.4
12.5°	532.7
15°	522.9
17.5°	513.1
20°	500.0
22.5°	486.9
25°	472.7
27.5°	456.3
30°	438.8
32.5°	419.2
35°	394.1
37.5°	363.5
40°	324.2
42.5°	271.8
45°	214.0
47.5°	159.4
50°	113.5
52.5°	79.7
55°	53.5
57.5°	36.0
60°	21.8
62.5°	13.1
65°	7.6
67.5°	3.3
70°	2.2
72.5°	1.1
75°	1.1
77.5°	1.1
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)