

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: P641583

Luminaire Tested: ML5612LSVWFL97FS1E - 591WB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 591WB - 600LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

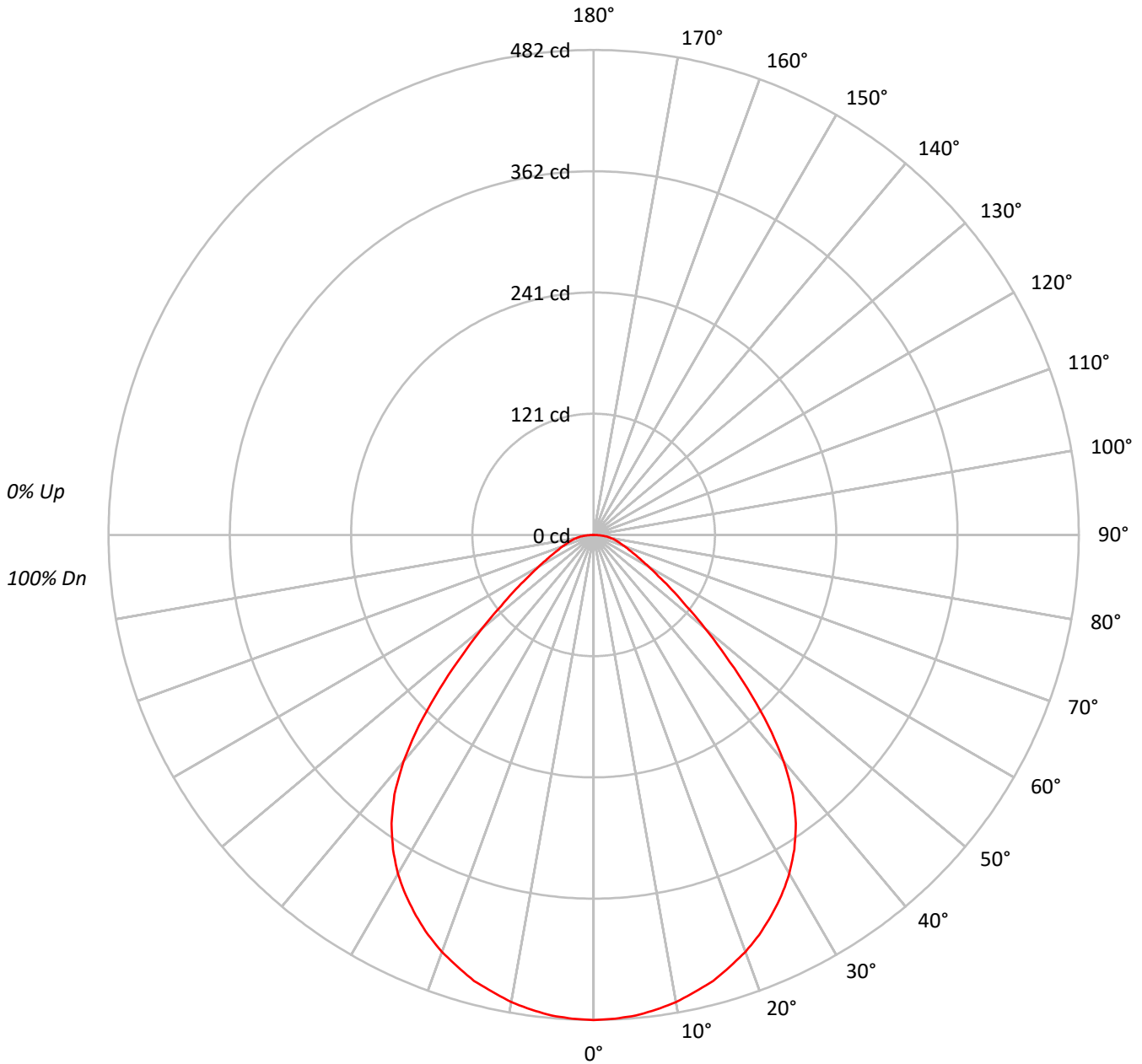
Lumens per Lamp: N/A
Luminaire Lumens: 917.4 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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									
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																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	81	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40																			
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38065
5°	37997
10°	37795
15°	37504
20°	37039
25°	36374
30°	35440
35°	33748
40°	30266
45°	24159
50°	17758
55°	12978
60°	9931
65°	8219
70°	7455
75°	7381
80°	7774
85°	8152

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24159 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.5	5.0
10°-20°	129.3	14.1
20°-30°	192.2	20.9
30°-40°	216.8	23.6
40°-50°	166.7	18.2
50°-60°	86.8	9.5
60°-70°	44.8	4.9
70°-80°	25.7	2.8
80°-90°	9.7	1.1
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°	366.9	40.0
0°-40°	583.7	63.6
0°-60°	837.2	91.3
0°-90°	917.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	917.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	482	
5°	480	46
15°	459	129
25°	418	192
35°	350	217
45°	216	167
55°	94	87
65°	44	45
75°	24	26
85°	9	10
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	482.2
2.5°	481.3
5°	479.5
7.5°	475.9
10°	471.5
12.5°	465.2
15°	458.9
17.5°	449.9
20°	440.9
22.5°	430.1
25°	417.6
27.5°	404.1
30°	388.8
32.5°	370.9
35°	350.2
37.5°	325.1
40°	293.7
42.5°	256.8
45°	216.4
47.5°	176.9
50°	144.6
52.5°	115.8
55°	94.3
57.5°	76.3
60°	62.9
62.5°	52.1
65°	44.0
67.5°	37.7
70°	32.3
72.5°	27.8
75°	24.2
77.5°	20.7
80°	17.1
82.5°	13.5
85°	9.0
87.5°	4.5
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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