

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: P641838

Luminaire Tested: ML5612LSVWFL97FS1E - 693SNB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-111)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 693SNB - 600LM - 3500K
Description: ML56 RR, MILKY OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

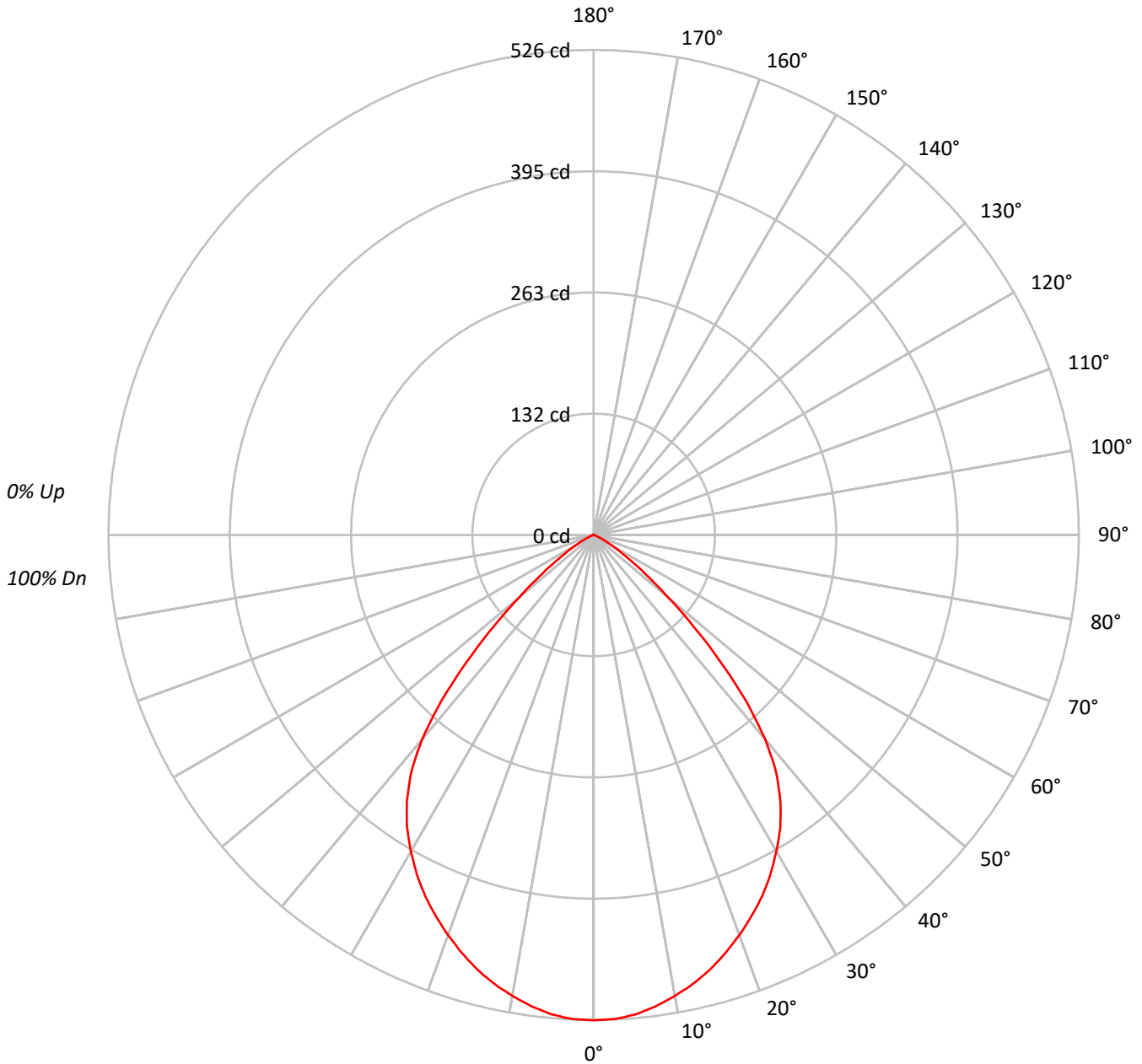
Lumens per Lamp: N/A
Luminaire Lumens: 813.3 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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					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	105	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	57	55				
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50				
8	71	60	53	48	70	59	53	48	58	52	48	57	52	47	56	51	47	46				
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42				
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	28863
5°	28725
10°	28256
15°	27690
20°	26941
25°	26143
30°	25080
35°	23631
40°	20703
45°	15048
50°	9040
55°	4893
60°	2467
65°	1051
70°	289
75°	191
80°	284
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15048 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	6.1
10°-20°	137.3	16.9
20°-30°	198.6	24.4
30°-40°	218.2	26.8
40°-50°	149.5	18.4
50°-60°	49.6	6.1
60°-70°	9.1	1.1
70°-80°	1.3	0.2
80°-90°	0.4	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°	385.2	47.4
0°-40°	603.4	74.2
0°-60°	802.5	98.7
0°-90°	813.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	813.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	526	
5°	522	49
15°	488	137
25°	432	199
35°	353	218
45°	194	150
55°	51	50
65°	8	9
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	526.5
2.5°	525.6
5°	522.0
7.5°	515.7
10°	507.6
12.5°	498.7
15°	487.9
17.5°	475.3
20°	461.8
22.5°	447.4
25°	432.2
27.5°	415.1
30°	396.2
32.5°	376.5
35°	353.1
37.5°	325.3
40°	289.3
42.5°	244.4
45°	194.1
47.5°	146.5
50°	106.0
52.5°	74.6
55°	51.2
57.5°	34.1
60°	22.5
62.5°	13.5
65°	8.1
67.5°	3.6
70°	1.8
72.5°	1.8
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.9
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)