

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: P643474

Luminaire Tested: ML5615LSVWFL9FS1E - 593SNB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 593SNB - 1500LM - 4000K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1482.4 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

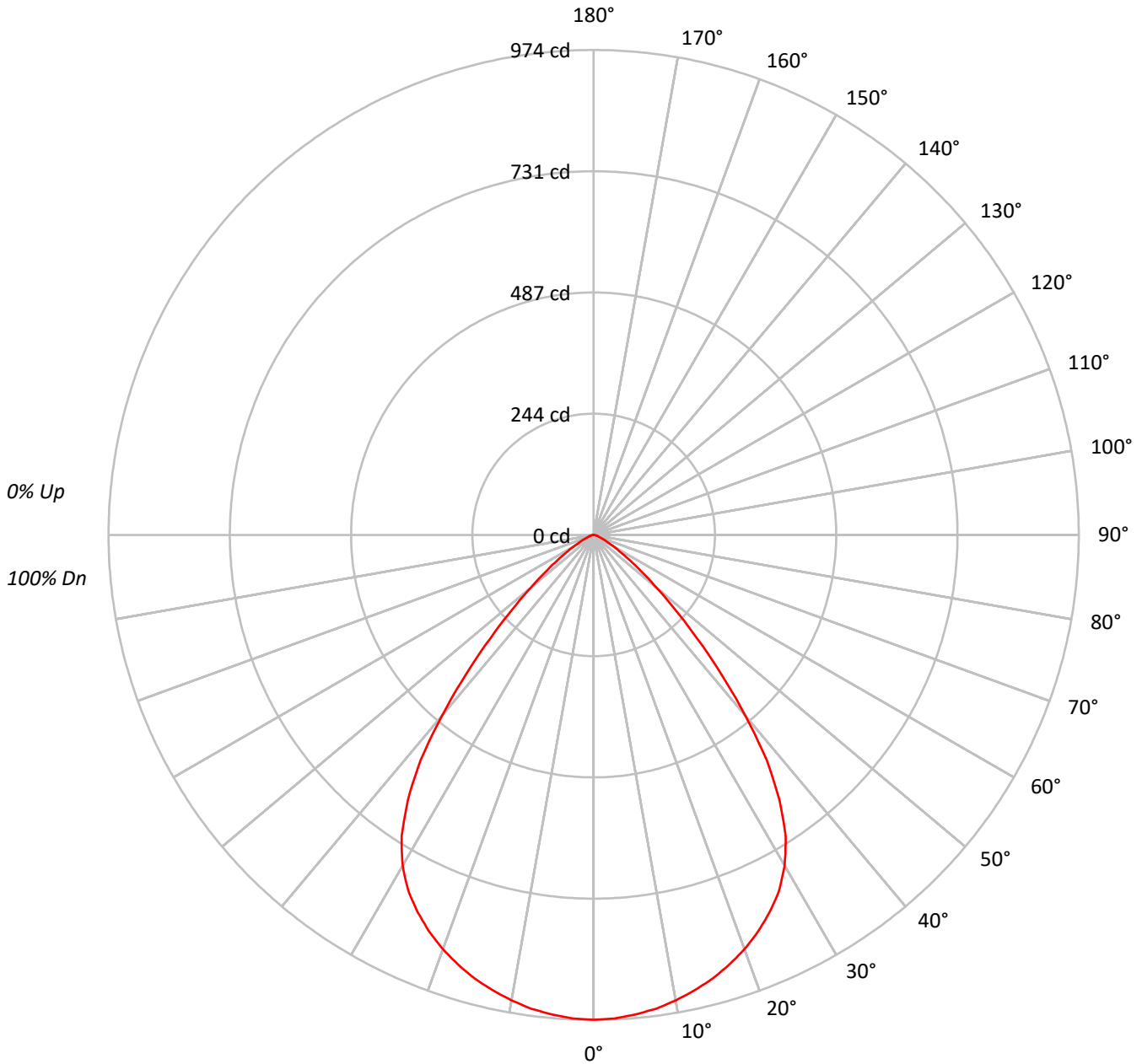
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	76873
5°	76604
10°	76079
15°	75392
20°	74380
25°	72808
30°	69914
35°	62678
40°	48805
45°	32755
50°	20190
55°	12166
60°	7263
65°	4296
70°	2447
75°	2166
80°	1591
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 32755 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.7	6.2
10°-20°	260.0	17.5
20°-30°	383.8	25.9
30°-40°	398.3	26.9
40°-50°	231.3	15.6
50°-60°	84.0	5.7
60°-70°	24.4	1.6
70°-80°	7.4	0.5
80°-90°	1.5	0.1
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°	735.5	49.6
0°-40°	1133.8	76.5
0°-60°	1449.1	97.8
0°-90°	1482.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1482.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	974	
5°	967	92
15°	922	260
25°	836	384
35°	650	398
45°	293	231
55°	88	84
65°	23	24
75°	7	7
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	973.8
2.5°	972.0
5°	966.7
7.5°	959.7
10°	949.1
12.5°	936.7
15°	922.5
17.5°	904.9
20°	885.4
22.5°	862.5
25°	835.9
27.5°	805.9
30°	767.0
32.5°	717.5
35°	650.4
37.5°	570.8
40°	473.6
42.5°	378.2
45°	293.4
47.5°	220.9
50°	164.4
52.5°	121.9
55°	88.4
57.5°	63.6
60°	46.0
62.5°	31.8
65°	23.0
67.5°	15.9
70°	10.6
72.5°	8.8
75°	7.1
77.5°	5.3
80°	3.5
82.5°	1.8
85°	1.8
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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