

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: P643564

Luminaire Tested: ML5615LSVWFL9FS1E - 596WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-104)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 596WB - 1500LM - 4000K
Description: ML56 RR, MILKY OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1799.5 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.24
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

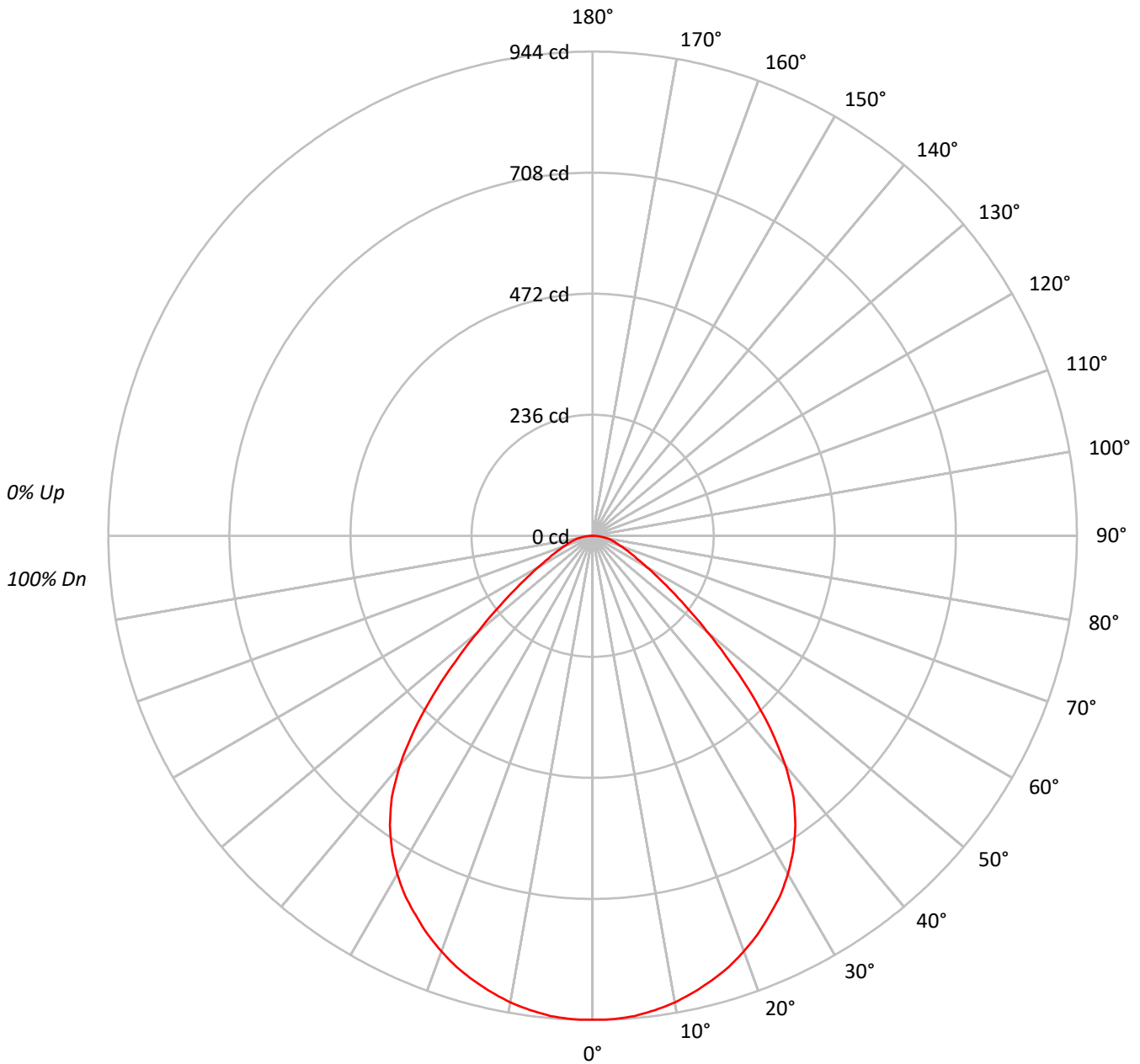
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78																			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44																			
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	50	43	39	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°	74481
5°	74480
10°	74067
15°	73349
20°	72431
25°	71092
30°	69413
35°	66398
40°	60264
45°	49110
50°	36020
55°	25778
60°	19246
65°	15504
70°	13456
75°	12932
80°	12865
85°	11231

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 49110 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	5.0
10°-20°	253.1	14.1
20°-30°	375.9	20.9
30°-40°	427.1	23.7
40°-50°	337.0	18.7
50°-60°	173.5	9.6
60°-70°	84.2	4.7
70°-80°	45.0	2.5
80°-90°	14.4	0.8
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°	718.2	39.9
0°-40°	1145.3	63.6
0°-60°	1655.9	92.0
0°-90°	1799.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1799.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	944	
5°	940	89
15°	898	253
25°	816	376
35°	689	427
45°	440	337
55°	187	174
65°	83	84
75°	42	45
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	943.5
2.5°	943.5
5°	939.9
7.5°	932.9
10°	924.0
12.5°	911.6
15°	897.5
17.5°	881.6
20°	862.2
22.5°	841.0
25°	816.2
27.5°	791.5
30°	761.5
32.5°	727.9
35°	689.0
37.5°	643.1
40°	584.8
42.5°	515.9
45°	439.9
47.5°	362.2
50°	293.3
52.5°	235.0
55°	187.3
57.5°	150.2
60°	121.9
62.5°	98.9
65°	83.0
67.5°	68.9
70°	58.3
72.5°	49.5
75°	42.4
77.5°	35.3
80°	28.3
82.5°	21.2
85°	12.4
87.5°	5.3
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)