

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: P643654

Luminaire Tested: ML5615LSVWFL9FS1E - 693SNB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643654
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: ML5615LSVWFL9FS1E - 693SNB - 1500LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

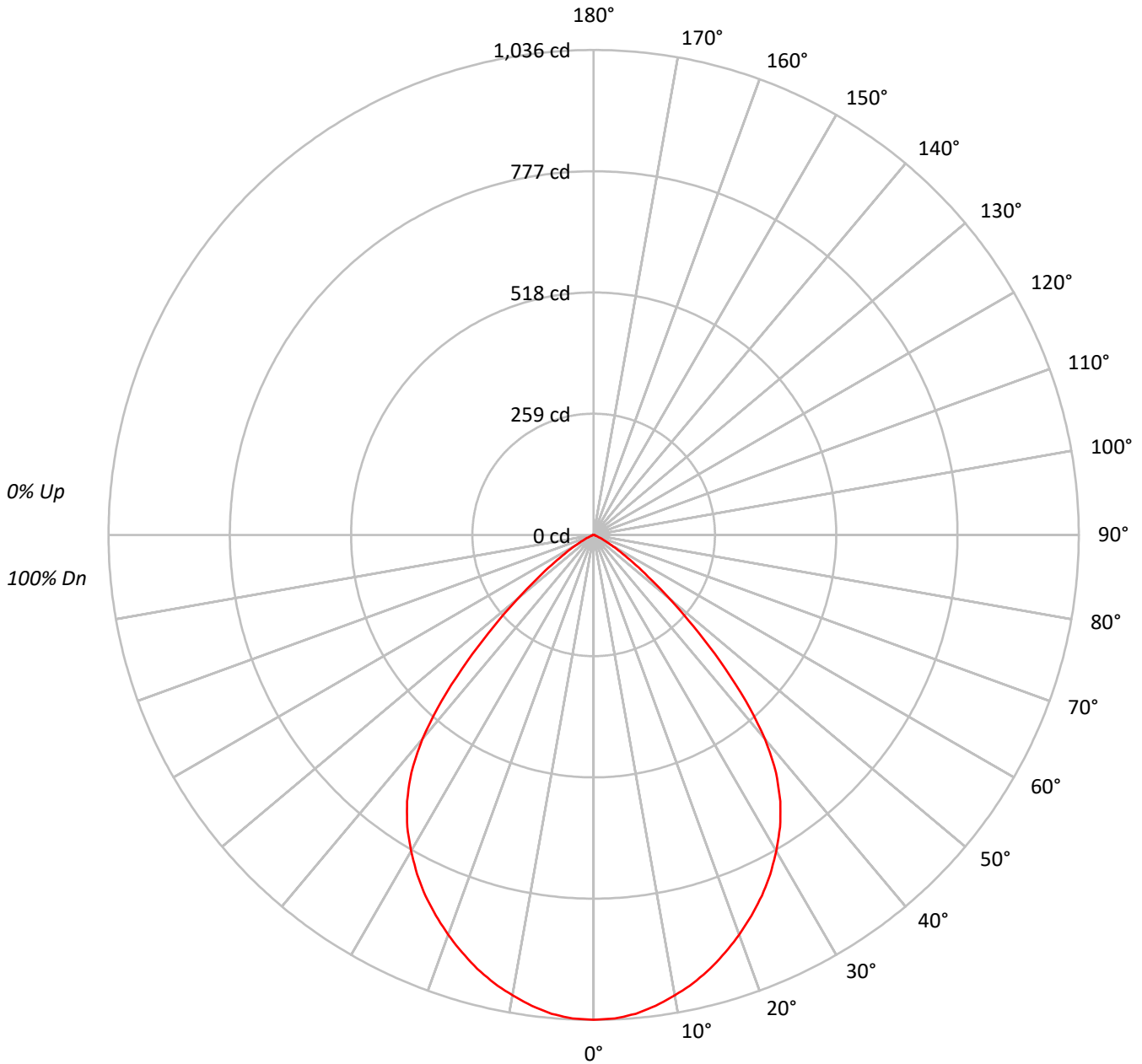
Lumens per Lamp: N/A
Luminaire Lumens: 1600.1 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	56783
5°	56515
10°	55593
15°	54473
20°	53006
25°	51426
30°	49343
35°	46491
40°	40733
45°	29600
50°	17790
55°	9634
60°	4846
65°	2062
70°	561
75°	381
80°	568
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29600 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	6.1
10°-20°	270.1	16.9
20°-30°	390.7	24.4
30°-40°	429.3	26.8
40°-50°	294.2	18.4
50°-60°	97.5	6.1
60°-70°	17.9	1.1
70°-80°	2.6	0.2
80°-90°	0.7	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°	757.9	47.4
0°-40°	1187.2	74.2
0°-60°	1578.9	98.7
0°-90°	1600.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1600.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1036	
5°	1027	97
15°	960	270
25°	850	391
35°	695	429
45°	382	294
55°	101	98
65°	16	18
75°	2	3
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1035.8
2.5°	1034.1
5°	1027.0
7.5°	1014.6
10°	998.7
12.5°	981.0
15°	959.8
17.5°	935.1
20°	908.6
22.5°	880.3
25°	850.2
27.5°	816.7
30°	779.5
32.5°	740.6
35°	694.7
37.5°	639.9
40°	569.2
42.5°	480.8
45°	381.8
47.5°	288.1
50°	208.6
52.5°	146.7
55°	100.8
57.5°	67.2
60°	44.2
62.5°	26.5
65°	15.9
67.5°	7.1
70°	3.5
72.5°	3.5
75°	1.8
77.5°	1.8
80°	1.8
82.5°	1.8
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)