

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: P643684

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643684
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-109)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 693WB - 1500LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

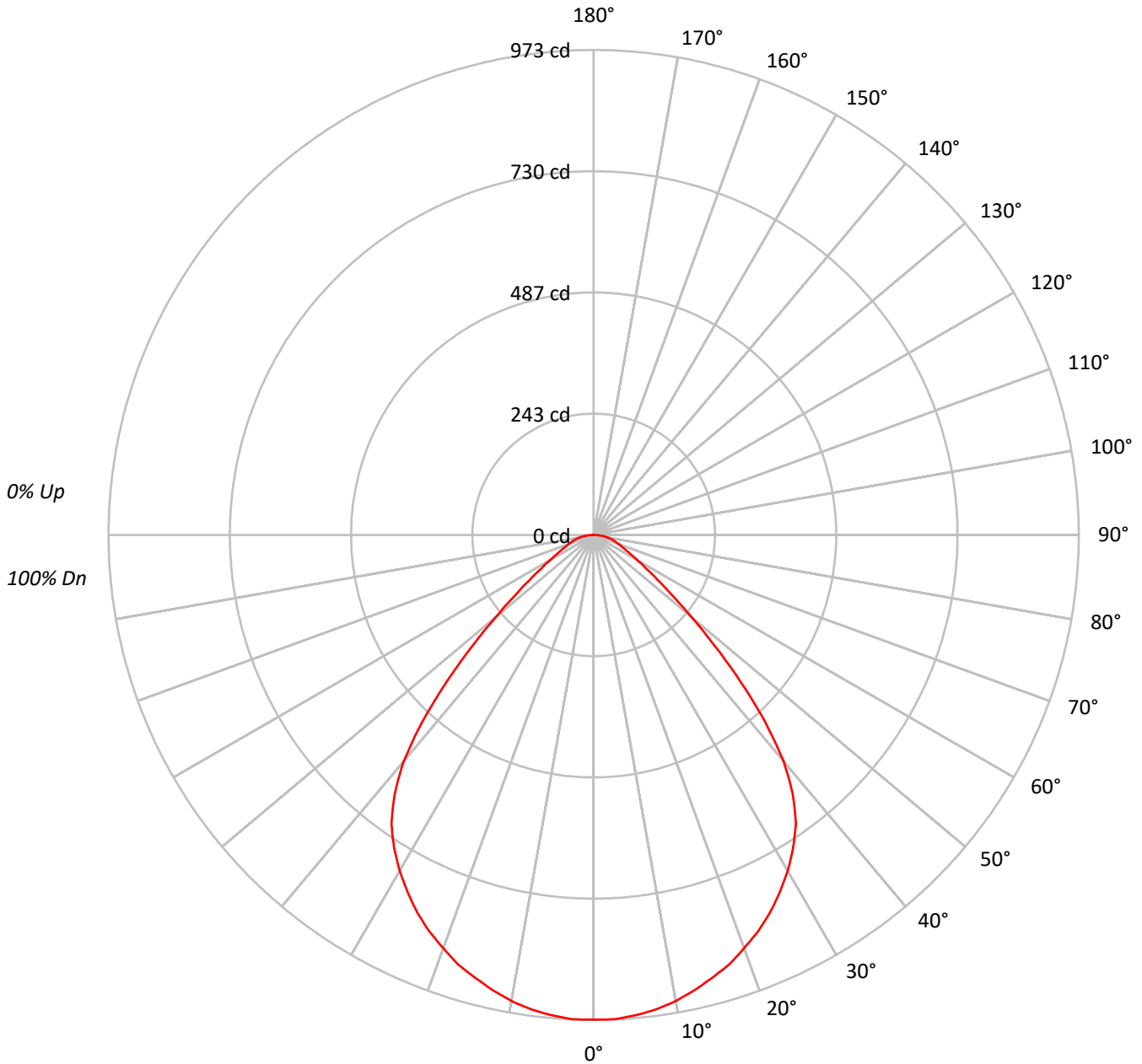
Lumens per Lamp: N/A
Luminaire Lumens: 1767.7 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.22
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89																			
2	103	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70																			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62																			
5	83	73	65	59	81	71	64	59	70	63	58	68	62	58	66	61	57	56																			
6	78	66	59	53	76	65	58	53	64	57	53	62	57	52	61	56	52	50																			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45																			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41																			
9	64	52	45	40	63	52	45	40	50	44	40	49	44	39	48	43	39	38																			
10	60	48	41	37	59	48	41	36	47	41	36	46	40	36	45	40	36	34																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53318
5°	53230
10°	52860
15°	52191
20°	51478
25°	50592
30°	49254
35°	47335
40°	42394
45°	32352
50°	21714
55°	14872
60°	11052
65°	9171
70°	8511
75°	8621
80°	8366
85°	7799

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 32352 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.8	5.2
10°-20°	259.5	14.7
20°-30°	384.6	21.8
30°-40°	436.4	24.7
40°-50°	321.4	18.2
50°-60°	145.6	8.2
60°-70°	71.9	4.1
70°-80°	42.2	2.4
80°-90°	14.2	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°	735.9	41.6
0°-40°	1172.3	66.3
0°-60°	1639.3	92.7
0°-90°	1767.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	973	
5°	967	92
15°	920	259
25°	836	385
35°	707	436
45°	417	321
55°	156	146
65°	71	72
75°	41	42
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	972.6
2.5°	972.6
5°	967.3
7.5°	960.2
10°	949.6
12.5°	935.5
15°	919.6
17.5°	903.6
20°	882.4
22.5°	861.2
25°	836.4
27.5°	808.1
30°	778.1
32.5°	744.5
35°	707.3
37.5°	656.1
40°	592.4
42.5°	509.3
45°	417.3
47.5°	328.9
50°	254.6
52.5°	198.1
55°	155.6
57.5°	123.8
60°	100.8
62.5°	83.1
65°	70.7
67.5°	60.1
70°	53.1
72.5°	46.0
75°	40.7
77.5°	33.6
80°	26.5
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)