

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: P643621

Luminaire Tested: ML5615LSVWFL9FS1E - 692W - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-108)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 692W - 1500LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

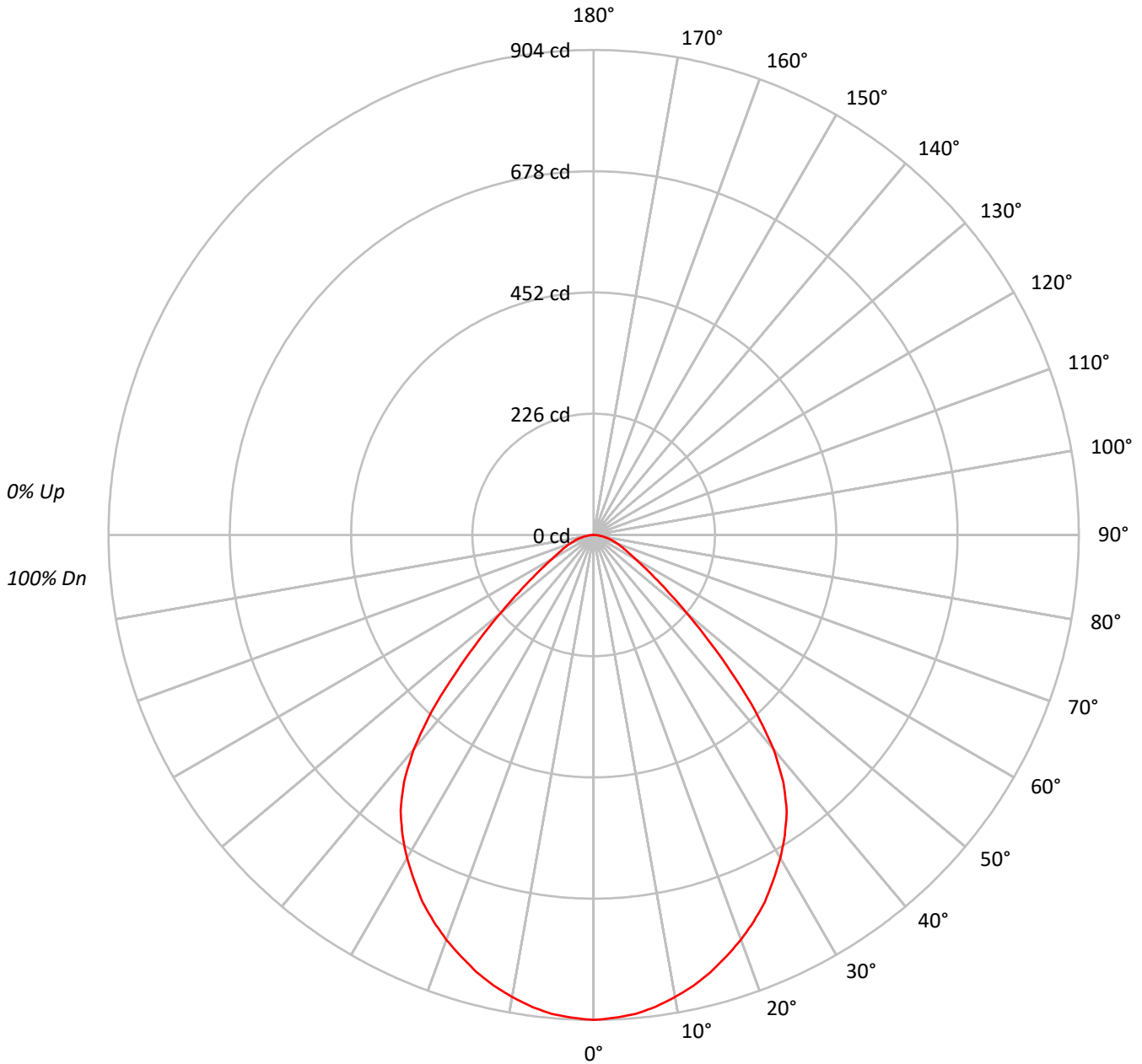
Lumens per Lamp: N/A
Luminaire Lumens: 1575.1 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																			
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	47	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	52	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49563
5°	49323
10°	48680
15°	47866
20°	46840
25°	45650
30°	44032
35°	41967
40°	37306
45°	28228
50°	19240
55°	13237
60°	9901
65°	8276
70°	7485
75°	6926
80°	5904
85°	4906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.8	5.4
10°-20°	237.5	15.1
20°-30°	346.7	22.0
30°-40°	387.2	24.6
40°-50°	281.8	17.9
50°-60°	129.6	8.2
60°-70°	64.6	4.1
70°-80°	34.1	2.2
80°-90°	8.9	0.6
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°	669.0	42.5
0°-40°	1056.2	67.1
0°-60°	1467.6	93.2
0°-90°	1575.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1575.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	904	
5°	896	85
15°	843	237
25°	755	347
35°	627	387
45°	364	282
55°	138	130
65°	64	65
75°	33	34
85°	8	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	904.1
2.5°	901.0
5°	896.3
7.5°	887.0
10°	874.5
12.5°	860.5
15°	843.4
17.5°	823.2
20°	802.9
22.5°	779.6
25°	754.7
27.5°	725.1
30°	695.6
32.5°	662.9
35°	627.1
37.5°	580.4
40°	521.3
42.5°	446.6
45°	364.1
47.5°	287.9
50°	225.6
52.5°	175.8
55°	138.5
57.5°	110.5
60°	90.3
62.5°	74.7
65°	63.8
67.5°	54.5
70°	46.7
72.5°	38.9
75°	32.7
77.5°	24.9
80°	18.7
82.5°	12.4
85°	7.8
87.5°	3.1
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)