

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: P643627

Luminaire Tested: ML5615LSVWFL9FS1E - 692W - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643627
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 - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

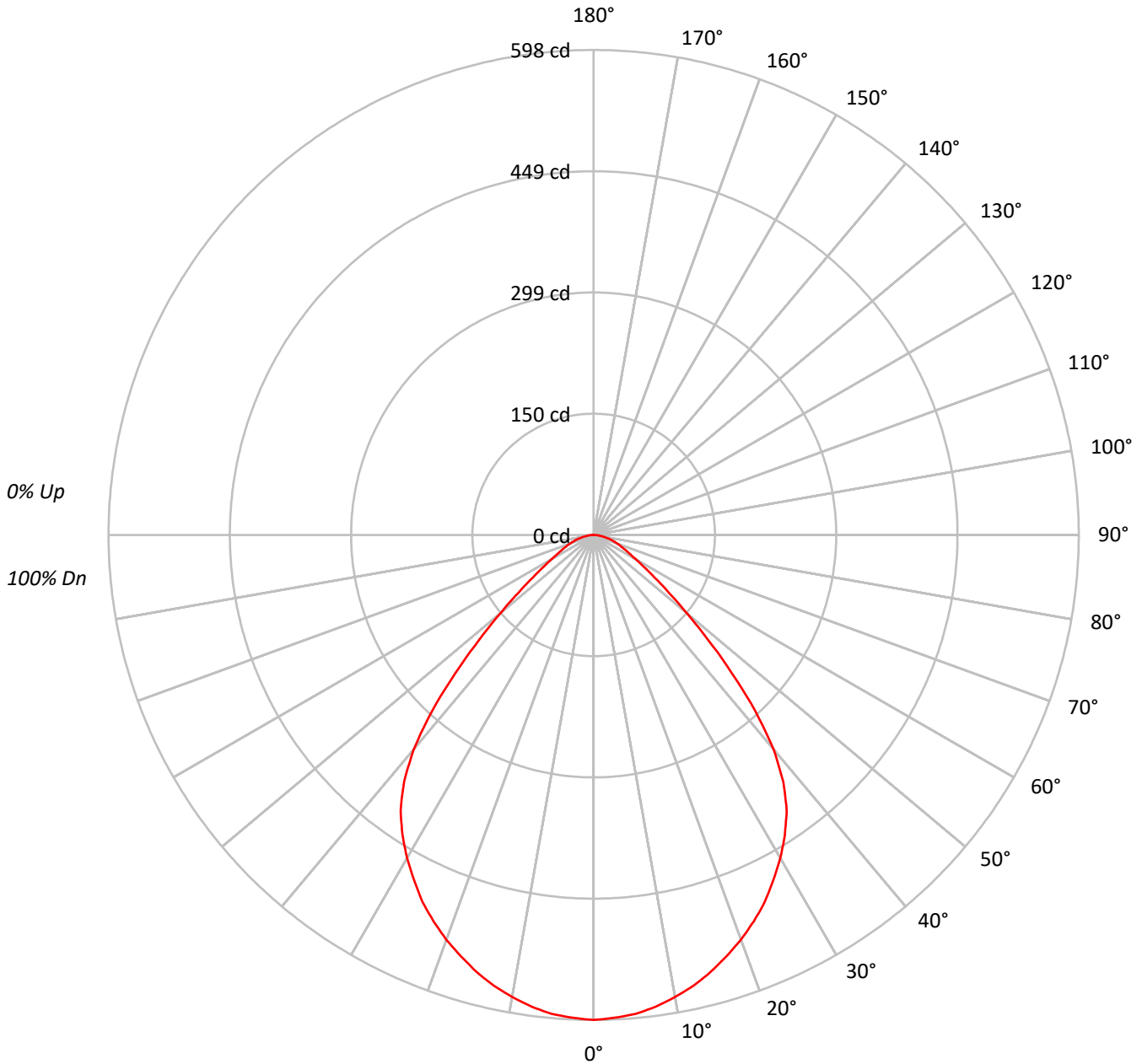
Lumens per Lamp: N/A
Luminaire Lumens: 1041.9 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10.5
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°	32788
5°	32627
10°	32203
15°	31663
20°	30984
25°	30195
30°	29125
35°	27760
40°	24675
45°	18676
50°	12733
55°	8755
60°	6546
65°	5474
70°	4953
75°	4575
80°	3915
85°	3208

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18676 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	5.4
10°-20°	157.1	15.1
20°-30°	229.3	22.0
30°-40°	256.1	24.6
40°-50°	186.4	17.9
50°-60°	85.7	8.2
60°-70°	42.7	4.1
70°-80°	22.5	2.2
80°-90°	5.9	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°	442.5	42.5
0°-40°	698.7	67.1
0°-60°	970.8	93.2
0°-90°	1041.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1041.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	598	
5°	593	56
15°	558	157
25°	499	229
35°	415	256
45°	241	186
55°	92	86
65°	42	43
75°	22	23
85°	5	6
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	598.1
2.5°	596.0
5°	592.9
7.5°	586.7
10°	578.5
12.5°	569.2
15°	557.9
17.5°	544.5
20°	531.1
22.5°	515.7
25°	499.2
27.5°	479.7
30°	460.1
32.5°	438.5
35°	414.8
37.5°	383.9
40°	344.8
42.5°	295.4
45°	240.9
47.5°	190.4
50°	149.3
52.5°	116.3
55°	91.6
57.5°	73.1
60°	59.7
62.5°	49.4
65°	42.2
67.5°	36.0
70°	30.9
72.5°	25.7
75°	21.6
77.5°	16.5
80°	12.4
82.5°	8.2
85°	5.1
87.5°	2.1
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)