

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: P643450

Luminaire Tested: ML5615LSVWFL9FS1E - 592W - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-96)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 592W - 900LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

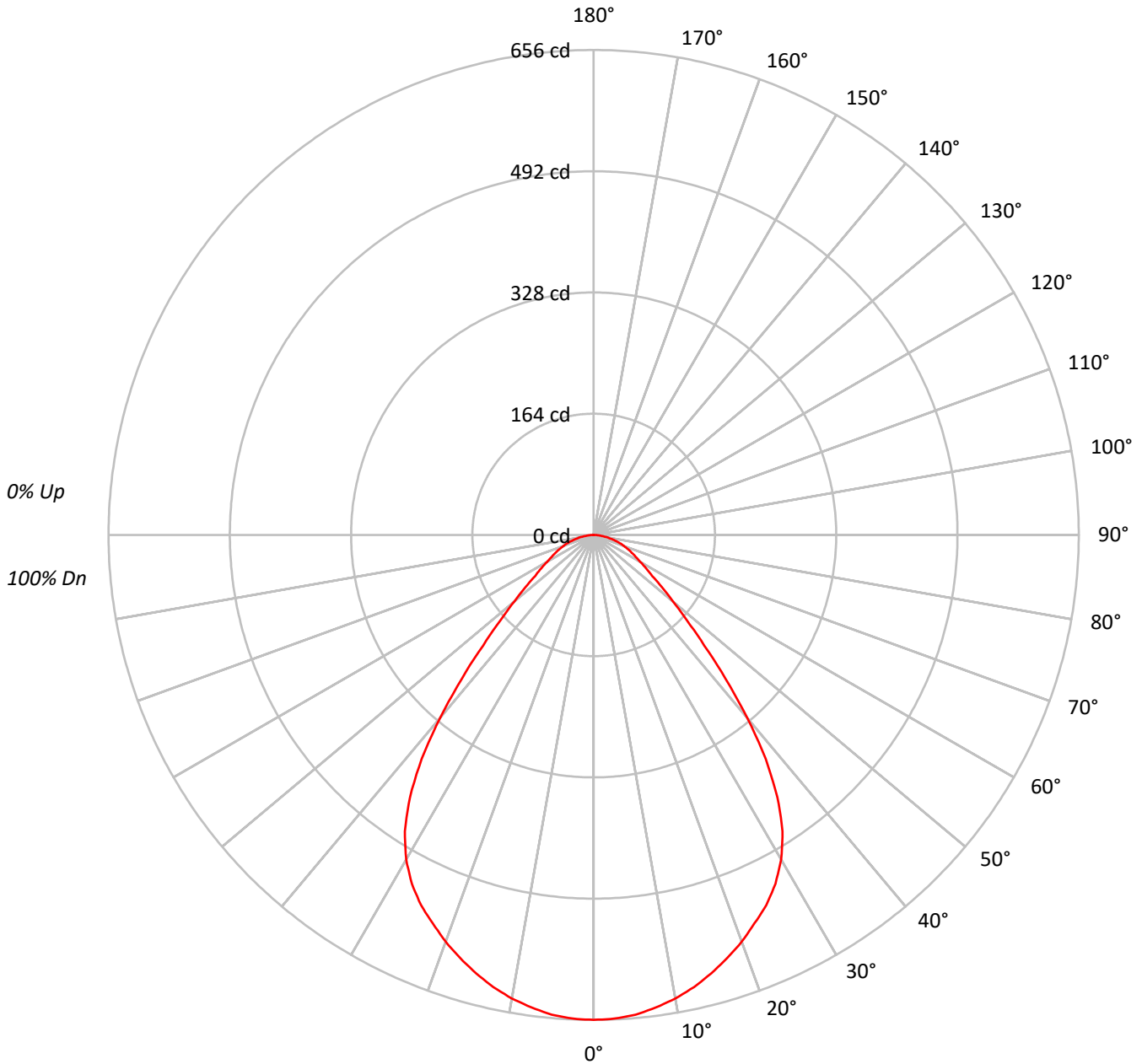
Lumens per Lamp: N/A
Luminaire Lumens: 1108.7 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	52	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	46	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35962
5°	35852
10°	35442
15°	34847
20°	34157
25°	33425
30°	32100
35°	28991
40°	23108
45°	16397
50°	11923
55°	9233
60°	7982
65°	7368
70°	6924
75°	6503
80°	5746
85°	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16397 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	5.6
10°-20°	173.0	15.6
20°-30°	253.5	22.9
30°-40°	265.6	24.0
40°-50°	167.9	15.1
50°-60°	89.8	8.1
60°-70°	56.5	5.1
70°-80°	32.4	2.9
80°-90°	8.3	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°	488.2	44.0
0°-40°	753.8	68.0
0°-60°	1011.5	91.2
0°-90°	1108.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	656	
5°	652	62
15°	614	173
25°	553	253
35°	433	266
45°	212	168
55°	97	90
65°	57	57
75°	31	32
85°	7	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	656.0
2.5°	654.9
5°	651.5
7.5°	644.7
10°	636.7
12.5°	626.5
15°	614.0
17.5°	600.3
20°	585.5
22.5°	568.5
25°	552.6
27.5°	532.1
30°	507.1
32.5°	475.2
35°	433.2
37.5°	382.0
40°	322.9
42.5°	263.8
45°	211.5
47.5°	170.5
50°	139.8
52.5°	116.0
55°	96.6
57.5°	84.1
60°	72.8
62.5°	63.7
65°	56.8
67.5°	50.0
70°	43.2
72.5°	37.5
75°	30.7
77.5°	23.9
80°	18.2
82.5°	12.5
85°	6.8
87.5°	2.3
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)