

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: P643442

Luminaire Tested: ML5615LSVWFL9FS1E - 592W - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643442
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 - 1500LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

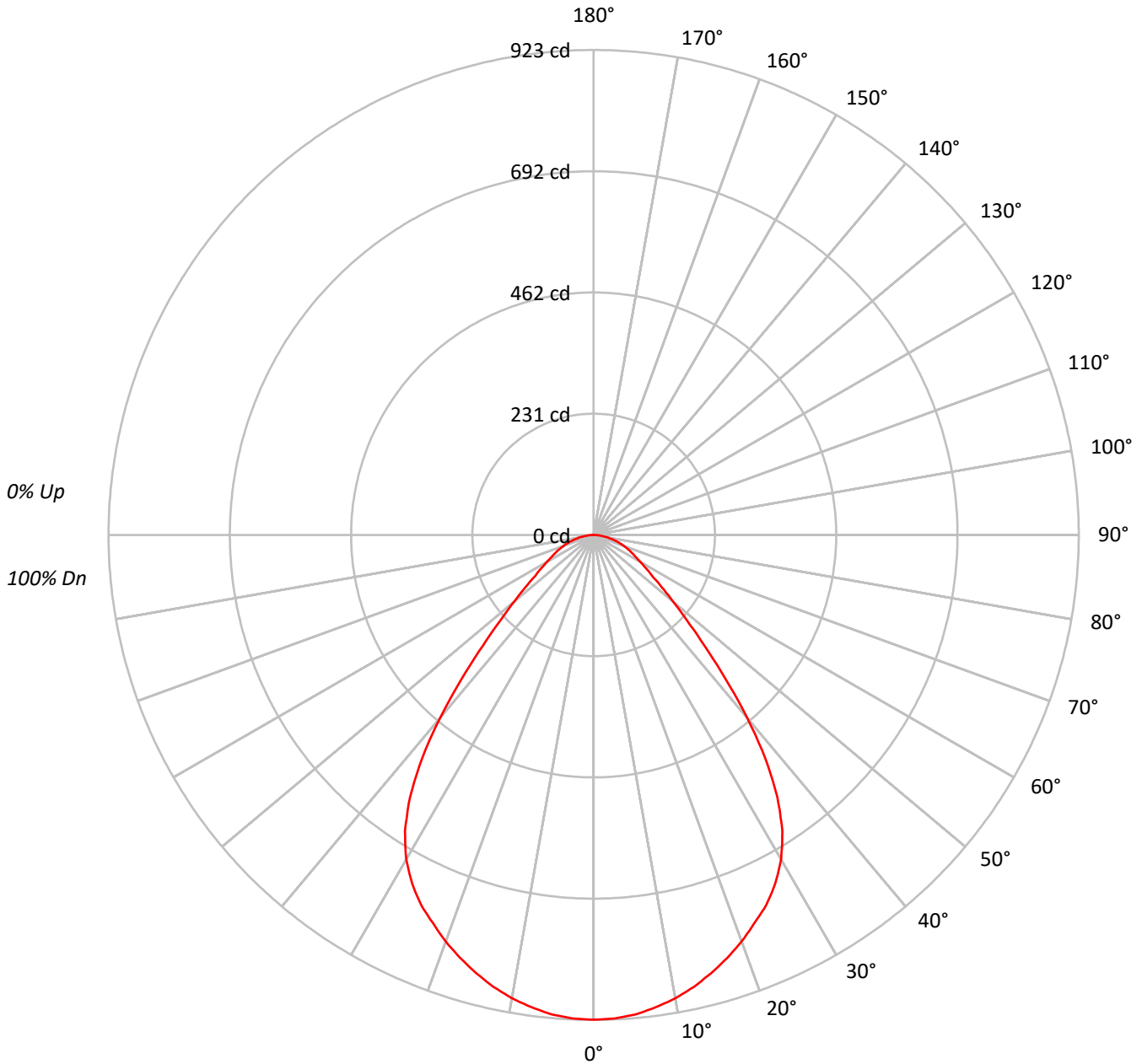
Lumens per Lamp: N/A
Luminaire Lumens: 1559.2 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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	45	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°	50577
5°	50418
10°	49843
15°	49001
20°	48036
25°	47005
30°	45140
35°	40770
40°	32497
45°	23057
50°	16776
55°	12989
60°	11216
65°	10364
70°	9745
75°	9150
80°	8082
85°	6038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23057 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	5.6
10°-20°	243.3	15.6
20°-30°	356.5	22.9
30°-40°	373.5	24.0
40°-50°	236.1	15.1
50°-60°	126.3	8.1
60°-70°	79.5	5.1
70°-80°	45.6	2.9
80°-90°	11.7	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°	686.5	44.0
0°-40°	1060.0	68.0
0°-60°	1422.4	91.2
0°-90°	1559.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1559.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	923	
5°	916	87
15°	863	243
25°	777	356
35°	609	373
45°	297	236
55°	136	126
65°	80	79
75°	43	46
85°	10	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	922.6
2.5°	921.0
5°	916.2
7.5°	906.6
10°	895.4
12.5°	881.0
15°	863.4
17.5°	844.2
20°	823.4
22.5°	799.5
25°	777.1
27.5°	748.3
30°	713.1
32.5°	668.3
35°	609.2
37.5°	537.2
40°	454.1
42.5°	370.9
45°	297.4
47.5°	239.8
50°	196.7
52.5°	163.1
55°	135.9
57.5°	118.3
60°	102.3
62.5°	89.5
65°	79.9
67.5°	70.4
70°	60.8
72.5°	52.8
75°	43.2
77.5°	33.6
80°	25.6
82.5°	17.6
85°	9.6
87.5°	3.2
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)